

Daylight &  
Sunlight Report

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# Richmond College, Twickenham

Clarion Housing Group

March 2019

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Prepared By: Richard Nosworthy  
Date: March 2019

**For and on behalf of GVA Grimley Limited**

# 1. Introduction

1.1 Avison Young has been instructed by Clarion Housing Group to undertake a detailed technical assessment of the neighbouring and internal daylight and sunlight amenity (planning) matters associated with the redevelopment of the former Richmond College site in Twickenham.

1.2 This report is based upon the following information:

- BPTW Partnership's 2D drawings issued on 8 November 2018, updated on 14 November 2018, 23 November 2018 and 31 January 2019.
- BPTW Partnership's 3D model *18-103-BPTW-M3-SITE PLAN\_2018-11-05 18-103-BPTW-M3-SITE PLAN\_2018-11-05* issued 5 November 2018.
- Research on the Local Authority's planning archive in relation to historic planning application to neighbouring properties.
- Ordnance Survey Plan.

1.3 Research was also undertaken using Bing aerial photography and Google Maps.

## 2. Executive Summary

- 2.1 For daylight and sunlight amenity to the neighbouring residential properties, the Proposed Development has been considered in the future baseline scenario i.e. incorporating the relevant blocks of planning applications 16/4747/RES and 16/3293/RES to the north. The results of the technical study indicate that all neighbouring properties considered will satisfy BRE guideline for daylight, with the vast majority satisfying the relevant sunlight tests.
- 2.2 For daylight and sunlight amenity within the proposed development, a large proportion (93.59%) of rooms will be well-lit for their particular use. This is demonstrated by the Average Daylight Factor (ADF) test results which indicate the majority of the rooms will exceed the target values. The small proportion of the rooms that fall short of their target values are predominantly affected by the provision of private amenity spaces, in the form balconies. Whilst these may limit the daylight and sunlight access to some rooms, they provide further amenity to the occupants, allowing direct access to external daylight and sunlight, views etc. and therefore, in our opinion, have a mitigating effect.
- 2.3 In summary, the proposed development will not result in any material adverse daylight and sunlight affects to any neighbouring residential properties and will demonstrates that overall, a high level of internal daylight and sunlight compliance will be achieved.

### 3. Daylight & Sunlight Principles (Planning)

3.1 The BRE Guidelines – *Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice* are well established and are adopted by most Local Authorities as the appropriate scientific and empirical methods of measuring daylight and sunlight in order to provide objective data upon which to apply their planning policies. The Guidelines are not fixed standards but should be applied flexibly to take account of the specific circumstances of each case.

3.2 The Introduction of the Guidelines states:

*"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 developer. Although it gives numerical guidelines, these should be interpreted flexibly because natural lighting is only one of the many factors in site layout design."*

3.3 The 'flexibility' recommended in the Guidelines should reflect the specific characteristics of each case being considered. For example, as the numerical targets within the Guidelines have been derived on the basis of a low density suburban housing model, it is entirely appropriate to apply a more flexible approach when dealing with higher rise developments in a denser urban environment where the general scale of development is greater. In addition, where existing and proposed buildings have specific design features such as projecting balconies, deep recesses, bay windows etc., it is also equally valid to apply a degree of flexibility to take account of the effect of these particular design features. This does not mean that the recommendations and targets within the Guidelines can be disregarded but, instead, the 'flexibility' that should be applied should be founded on sound scientific principles that can be supported and justified. This requires a certain level of professional value judgement and experience.

#### **Daylighting**

3.4 In respect of daylighting, the BRE Guidelines adopt different methods of measurement depending on whether the assessment is for the impact on existing neighbouring premises or for measuring the adequacy of proposed new dwellings. For safeguarding the daylight received by existing neighbouring residential buildings around a proposed development, the relevant recommendations are set out in Section 2.2 of the Guidelines.

3.5 The adequacy of daylight received by existing neighbouring dwellings is measured using two methods of measurement. First, it is necessary to measure the Vertical Sky Component (VSC) followed by the measurement of internal Daylight Distribution by plotting the position of the 'existing' and 'proposed' no sky line contour.

- 3.6 VSC is measured at the mid-point on the external face of the window serving a habitable room. For the purpose of the Guidelines, a "habitable" room is defined as a Kitchen, Living Room or Bedroom. Bathrooms, hallways and circulation space are excluded from this definition. In addition, many Local Authorities make a further distinction in respect of small kitchens. Where the internal area of a small kitchen limits the use to food preparation and is not of sufficient size to accommodate some other form of "habitable" use such as dining, the kitchen need not be classed as a "habitable" room in its own right.
- 3.7 VSC is a 'spot' measurement taken on the face of the window and is a measure of the availability of light from the sky from over the "existing" and "proposed" obstruction caused by buildings or structures in front of the window. As it is measured on the outside face of the window, one of the inevitable shortcomings is that it does not take account of the size of the window or the size or use of the room served by the window. For this reason, the BRE Guidelines require internal Daylight Distribution to be measured in addition to VSC.
- 3.8 The 'No Sky Line' contour plotted for the purpose of measuring internal Daylight Distribution identifies those areas within the room usually measured on a horizontal working plane set at table top level, where there is direct sky visibility. This therefore represents those parts within the room where the sky can be seen through the window. This second measure therefore takes account of the size of the window and the size of the room but is only more reliable than VSC when the actual room uses, layouts and dimensions are known. When interpreted in conjunction with the VSC value, the likely internal lighting conditions, and hence the quality of lighting within the room, can be assessed.
- 3.9 For VSC, the Guidelines states that:
- "If this Vertical Sky Component is greater than 27% then enough skylight should still be reaching the window of the existing building. Any reduction below this level should be kept to a minimum. If the Vertical Sky Component with the new development in place is both less than 27% and less than 0.8 times its former value, then the occupants of the existing building will notice the reduction in the amount of skylight."*
- 3.10 To put this in context, the maximum VSC value that can be received for a totally unobstructed vertical window is 40%. There are however circumstances where the VSC value is already below 27%. In such circumstances, it is permissible to reduce the existing VSC value by a factor of 0.2 (i.e. 20%) so that the value on the 'proposed' conditions remains more than 0.8 times its former value. The scientific reasoning for this permissible margin of reduction is that existing daylight (and sunlight) levels can be reduced by a factor of 20% before the loss becomes materially noticeable. This factor of reduction applies to VSC, daylight distribution, sunlight and overshadowing.

- 3.11 By contrast, the adequacy of daylight for proposed 'New-Build' dwellings is measured using the standards in the British Standard Code of Practice for Daylighting, BS8206 Part 2.
- 3.12 The British Standard relies upon the use of Average Daylight Factors (ADF) rather than VSC and Daylight Distribution. The use of ADF is referred to in the BRE Guidelines (Appendix C) but its use is usually limited as a supplementary 'check' of internal lighting conditions once the VSC and Daylight Distribution tests have been completed.
- 3.13 ADF is sometimes seen as a more accurate and representative measure of internal lighting conditions as it comprises a greater number of design factors and input variables/coefficients. That is, the value of ADF is derived from:
- The actual amount of daylight received by the window(s) serving the room expressed as the "angle of visible sky" which is derived from the VSC value and therefore represents the amount of light striking the face of the window.
  - The loss of transmittance through the glazing.
  - The size of the window (net area of glazing).
  - The size of the room served by the window(s) (net internal surface area of the room).
  - The internal reflectance values of the internal finishes within the room.
  - The specific use of the room.
- 3.14 One of the main reasons why ADF is more appropriate for New-Build dwellings is that any of the above input variables can be changed during the course of the design process in order to achieve the required internal lighting values. The ability to make such changes is not usually available when dealing with existing neighbouring buildings.
- 3.15 Unlike the application of VSC and daylight distribution, the British Standard differentiates between different room uses. It places the highest ADF standard on Family Kitchens where the minimum target value is 2% *df*. Living Rooms should achieve 1.5% *df*, and Bedrooms 1.0% *df*.

### **Sunlighting**

- 3.16 The requirements for protecting sunlight to existing residential buildings are set out in section 3.2 of the BRE Guidelines.
- 3.17 The availability of sunlight varies throughout the year with the maximum amount of sunlight being available on the summer solstice and the minimum on the winter solstice. In view of this, the internationally accepted test date for measuring sunlight is the spring equinox (21 March), on which day the United Kingdom has equal periods of daylight and darkness and sunlight is

available from approximately 0830hrs to 1730hrs. In addition, on that date, sunlight received perpendicular to the face of a window would only be received where that window faces within 90° of due south. The BRE Guidelines therefore limit the extent of testing for sunlight where a window faces within 90° of due south.

- 3.18 The sunlight standards are normally applied to the principal Living Room within each dwelling rather than to kitchens and bedrooms.
- 3.19 The recommendation for sunlight is:

*"If this window reference point can receive more than one quarter of annual probable sunlight hours, including at least 5% of annual probable sunlight hours during the winter months of 21 September and 21 March, then the room should still receive enough sunlight ...*

*Any reduction in sunlight access below this level should be kept to a minimum. If the availability of sunlight hours are both less than the amounts given and less than 0.8 times their former value, either over the whole year or just during the winter months, then the occupants of the existing building will notice the loss of sunlight."*

- 3.20 A good level of sunlight will therefore be achieved where a window achieves more than 25% APSH, of which 5% should be in the winter months. Where sunlight levels fall below this suggested recommendation, a comparison with the existing condition should be undertaken and if the reduction ratio is less than 0.2, i.e. the window continues to receive more than 0.8 times its existing sunlight levels, the impact on sunlight will be acceptable.

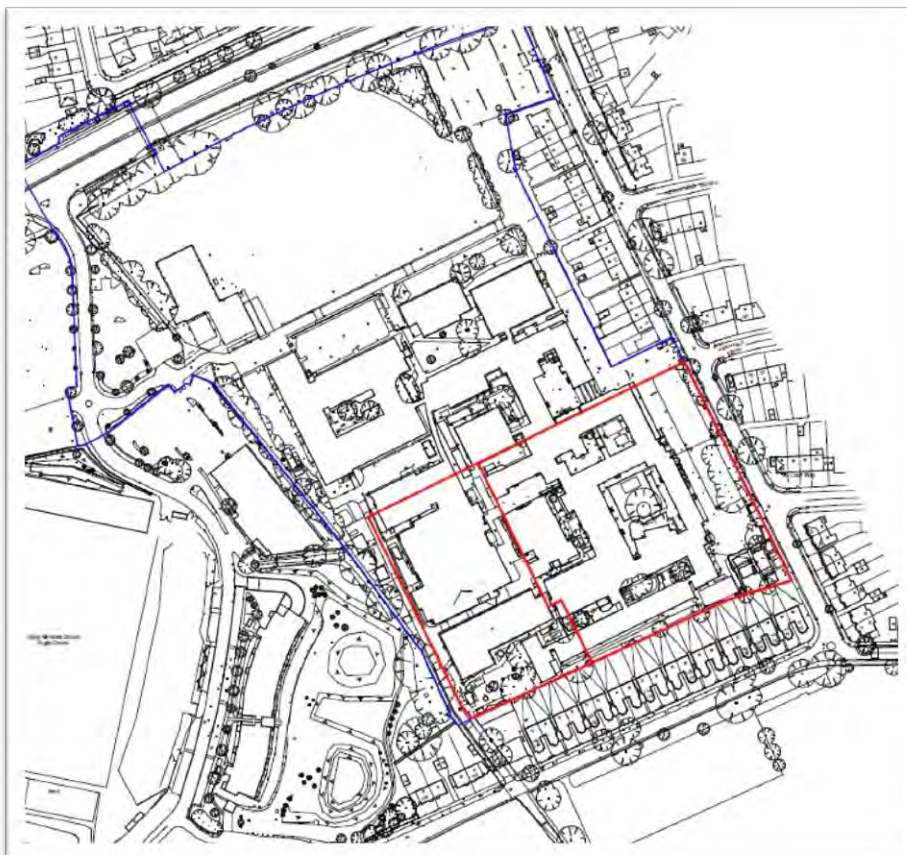


## 4. Site Context

- 4.1 The Application comprises demolition of existing college buildings, removal of hard surfacing, site clearance and ground works, together with the redevelopment of the site to provide 180 residential units together with associated parking for 160 vehicles, open space and landscaping.
- 4.2 The Site is located wholly within the London Borough of Richmond Upon Thames ("LBRUT") on the southern part of the site of the former Richmond College. The extent of the application site is shown on the accompanying site location plan prepared by BPTW Architects.
- 4.3 The site is bounded by residential properties to the south on Craneford Way with rear elevations facing north-west toward the Proposed Development. To the east, Egerton Road, running north-west/south-east, with the front elevation to established residential properties facing west toward the proposed development. To the east of Egerton Way, Court Way and Heathfield Street, running east-west, contain residential properties with the flack walls facing west toward the proposed development. To the north of the development site, the remainder of the former Richmond College site that this is subject to separate planning application (bounded blue in Figure 1), with emerging detailed planning applications. Immediately to the west is an open park area, with residential blocks beyond on Langhorn Drive which contain windows facing south-east beyond the Proposed Development site.
- 4.4 The aerial photograph shown as Figure 1, extracted from Google Maps, shows the Proposed Development site in context, containing the former Richmond College buildings. The extract from BPTW Architects site plan, shown as Figure 2, shows the proposed development site boundary by virtue of the red dashed line.



**Figure 1: Aerial view of the site and surrounding area**  
Google Maps (2018)



**Figure 2: Site location plan**  
BPTW drawing 18-103 D 001

## 5. Daylight and Sunlight Assessment

### Daylight and Sunlight Amenity to Neighbouring Residential Properties

- 5.1 By reference to section 4 of this report, the proposed development is located on the southern portion of the former Richmond College site, to the north of Craneford Way and the west of Egerton Way.
- 5.2 We have undertaken research and established that two the neighbouring sites to the north are subject to an approved planning application references: 16/4747/RES and 16/3293/RES, which have been incorporated in to the future baseline situation.
- 5.3 The following neighbouring properties have been identified as sensitive receptors and as such have been considered as part of this study.
- 70-72 CRANEFORD WAY - BRE/13
  - 74-76 CRANEFORD WAY - BRE/13
  - 78-80 CRANEFORD WAY - BRE/13
  - 82-84 CRANEFORD WAY - BRE/13
  - 86-88 CRANEFORD WAY - BRE/13
  - 90-92 CRANEFORD WAY - BRE/13
  - 94-96 CRANEFORD WAY - BRE/13
  - 98-100 CRANEFORD WAY - BRE/13
  - 102-104 CRANEFORD WAY - BRE/13
  - 106-108 CRANEFORD WAY - BRE/13
  - 110-112 CRANEFORD WAY - BRE/12
  - 114-116 CRANEFORD WAY - BRE/12
  - 118-120 CRANEFORD WAY - BRE/12
  - 122-124 CRANEFORD WAY - BRE/12
  - 126-128 CRANEFORD WAY - BRE/12

- 130-132 CRANEFORD WAY - BRE/12
- 134-136 CRANEFORD WAY - BRE/12
- 138-140 CRANEFORD WAY - BRE/12
- 142-144 CRANEFORD WAY - BRE/12
- 146-148 CRANEFORD WAY - BRE/12
- 150 CRANEFORD WAY - BRE/11
- 152 CRANEFORD WAY - BRE/11
- 14 EGERTON ROAD - BRE/05
- 16 EGERTON ROAD - BRE/05
- 3A EGERTON ROAD - BRE/09
- 96 COURT WAY - BRE/06
- 94 HEATHFIELD SOUTH - BRE/07
- 97 HEATHFIELD SOUTH - BRE/08
- CHALLENGE COURT, LANGHORN DRIVE - BRE/10

5.4 The daylight and sunlight table and drawings in relation to the neighbouring properties can be found by reference to Appendix I.

### **70 to 152 Craneford Way – BRE/11 to 13**

5.5 These residential properties are to the south of the Proposed Development, which rear windows/room facing north. The location of these properties can be seen by reference to drawing to BRE/01.

5.6 In relation to daylight, the results of our technical study indicate that in relation to VSC (at the window) and No Sky-line (within the room) indicate that all windows and room satisfy the BRE guidelines by virtue retaining either the absolute guideline value or 0.8 of their former value i.e. no greater than 20% reduction.

5.7 In relation to sunlight, the windows to these properties that look toward the proposed development do not face with 90° of due south and therefore have not been given further consideration.

### **94 and 97 Heathfield South – BRE/11 to 13**

- 5.8 These residential properties are to the east of the proposals on the opposite side of Egerton Road, located at the west end of Heathfield South, with flank of these properties facing west toward the Proposed Development.
- 5.9 In relation to daylight, the results of our technical study indicate that in relation to VSC (at the window) and No Sky-line (within the room) indicate that all windows and room satisfy the BRE guidelines by virtue retaining either the absolute guideline value or 0.8 of their former value i.e. no greater than 20% reduction.
- 5.10 In relation to sunlight, the findings of the APSH test demonstrate that all windows considered will retain 25% annual and 5% winter sunlight guideline values and/or 0.8 of their former value, satisfying the guidelines.

### **3A, 14 and 16 Egerton Road – BRE/05 and 09**

- 5.11 These three are residential properties to the east of the proposals. 3A Egerton Road is located on the west site of Egerton Road, to the north-east of the Proposed Development, with windows serving habitable rooms in the rear and flank walls. 14 and 16 Egerton Way are located to the east on the opposite side of Egerton Road, on the junction with Court Way.
- 5.12 In relation to daylight, the results of our technical study indicate that in relation to VSC (at the window) and No Sky-line (within the room) indicate that all windows and room satisfy the BRE guidelines by virtue retaining either the absolute guideline value or 0.8 of their former value i.e. no greater than 20% reduction.
- 5.13 In relation to sunlight, the findings of the APSH test demonstrate that all windows considered will retain 25% annual and 5% winter sunlight guideline values and/or 0.8 of their former value, satisfying the guidelines. The exception being, two windows to 16 Egerton Road, which will see two winter reductions in excess of 20%, however these only represent a 1% absolute reduction of the probable sunlight hours and therefore are unlikely to be noticeable.

### **96 Court Way – BRE/11 to 13**

- 5.14 This residential property is to the east of the Proposed Development on the opposite side of Egerton Road on Court Way, with the front and flank elevations containing windows that look south-west and north-west, respectively.
- 5.15 In relation to daylight, the results of our technical study indicate that in relation to VSC (at the window) and No Sky-line (within the room) indicate that all windows and room satisfy the BRE guidelines by virtue retaining either the absolute guideline value or 0.8 of their former value i.e. no greater than 20% reduction.

- 5.16 In relation to sunlight, the findings of the APSH test demonstrate that all windows considered will retain 25% annual and 5% winter sunlight guideline values and/or 0.8 of their former value, satisfying the guidelines.

### **Challenge Court, Langhorn Drive – BRE/11 to 13**

- 5.17 This block of flats is to the west of the Proposed Development located on Langhorn Drive, on the opposite side of the open amenity space. The main rear south-east facing elevation and north-east facing flank elevation will have an obtuse view of Proposed Development. Given the orientation of the block, we have only undertaken sample testing of those windows and rooms that are located closest to the Proposed Development, on the basis that remaining window/rooms will be less affected.
- 5.18 In relation to daylight, the results of our technical study indicate that in relation to VSC (at the window) and No Sky-line (within the room) indicate that all windows and room satisfy the BRE guidelines by virtue retaining either the absolute guideline value or 0.8 of their former value i.e. no greater than 20% reduction.
- 5.19 In relation to sunlight, the findings of the APSH test demonstrate that all windows considered will retain 25% annual and 5% winter sunlight guideline values and/or 0.8 of their former value, satisfying the guidelines.

## 6. Daylight and Sunlight Amenity within the Proposed Development

6.1 Avison Young have worked alongside the Architectural team throughout the design process in order to maximise the levels of light within the Proposed Development as far as reasonably possible.

6.2 Mitigation measures were taken into account including:

- Designing the massing to allow for greater daylight ingress and more dual aspect apartments;
- Amending the balcony design so as to minimise the impact of these on each apartment's living area;
- Rearranging the flat layouts to prioritise the daylight within the main living areas;
- Rearranging room layouts so to ensure the potential of each window is fully realised; and
- Increasing window sizes in areas of lower daylight potential.

6.3 Therefore, the Proposed Development has been optimised for daylight and sunlight as far as reasonably possible, given the context and urban location.

6.4 The apartments feature open plan living/kitchen/dining rooms ("LKD"). In common with many contemporary developments, the kitchens/ food preparation areas are located at the rear of deep open plan spaces, therefore intended to be predominantly artificially task lit given their distant location away from the main window wall.

6.5 In such circumstances the standard recommendation of 2% ADF for typical kitchens may therefore be considered less appropriate, especially given the site context and other constraints, such as the provision balconies which reduce the light entering windows below them.

6.6 In respect of internal galley type kitchens, the BRE Guidelines considers that if these are not directly daylit they should be directly linked to a well daylit living room. The typical recommendation for a living rooms being at least 1.5% ADF.

6.7 Typical modern living requirement within urban locations dictate that the majority of apartments contain galley kitchens to the rear of a larger room only. These galley kitchens are either not considered to be habitable due to the small room area and have been

excluded from analysis or are only considered as a secondary room use and have therefore been assessed by applying the parameters for the primary room use only i.e. living room or dining room. The BRE Guidelines advise that kitchens do not need to be directly daylighted as long as they are directly linked to a well-lit space.

- 6.8 Where relevant the area closest to the window where there is a reasonable expectation of daylight has been assessed. These areas comprise living/dining rooms ("LD") and, in some cases where the units run along the side walls, a small part of the kitchen.
- 6.9 The development provides a number of accessible units, which are designed with large open plan rooms in order to provide the accessibility required. These are often difficult to light to the guideline values and this should be considered in balance with the functionality and overall amenity provided by the fully accessible areas.
- 6.10 We have undertaken a 3D computer study of the proposed development in respect of internal daylight and sunlight amenity in accordance with BS 8206: Part 2, as described in section 3.10 and 3.11 above.
- 6.11 The daylight and sunlight table and drawings in relation to the Proposed Development can be found by reference to Appendix II.

## Results

- 6.12 The results confirm that of the 640 rooms tested, 599 will achieve the 2% for kitchens, 1.5% for living/dining space or 1% bedrooms. This equates to **93.59%** compliance with the BRE/BS target values. 14 of the rooms in question are bedrooms, which are considered by the BRE as "*less important*".
- 6.13 There will be 10 'kitchenettes' that are more significantly below guidelines, however whilst they have been designed with apertures, their intended primary design function is to provide ventilation and an external view, rather than daylight amenity. Also, these are kitchens small and design for utility, such that they arguably do not provide a 'habitable' space. These kitchens are connected to well-lit living spaces which are all in excess of the guidance value, ranging between 1.95% and 3.05% ADF and these provide the daylight amenity to these dwelling. Therefore, we suggest that these results should be considered acceptable.
- 6.14 In relation to those rooms tested as Living/Kitchen/Dining rooms, whilst the BRE suggests a 2% ADF, the Living/Dining rooms are the primary use and therefore, in our opinion, in such circumstances a 1.5% ADF is more appropriate. In this circumstance, 69 of 70 of these rooms considered will exceed the 1.5% ADF. On this basis, the overall compliance increases further still to **95.47%** which is considered good for an urban location.



- 6.15 In relation to Sunlight, the APSH results indicate that of the 729 windows considered, 404 will achieve the 25% annual sunlight guideline and 507 the 5% winter sunlight guideline. However, in relation to sunlight enjoyed within the room, a large number of the relevant rooms considered contain multiple windows. There whilst some windows may fall short of the guidelines, a high proportion of rooms contain at least one window that achieves good sunlight values or the aggregate contribution from the multiple windows provides a well sunlit space. Again, the further direct sunlight amenity can also be enjoyed by virtue of the private balcony spaces provided.
- 6.16 The above findings suggest that the proposals will achieve excellent daylight and sunlight results exceeding the BRE Guidelines and the BS 8206: Part 2 in many instances.

### **BRE '2 Hour Time-in-Sun' Overshadowing Study with the Proposed Development.**

- 6.17 The BRE Guidelines suggest that external amenity areas within a proposed development should be test to ensure that sufficient sunlight reaches the ground (50% of the total area for greater than 2 hours) for the enjoyment of the users. The amenity areas that form part of the application site are individual private rear gardens to the terrace houses referenced T2, T3 and T4 to the south and T1 to the east. A further three amenity spaces/gardens are provided between the residential blocks, referenced West Garden, Central Garden and East Garden. A further amenity space has been provided to the northern and eastern boundary. Finally, a communal terrace have has been provided to the south-west corner of Block 5. For the purposes of this study, trees have not been included as the BRE states in paragraph 3.3.9. "*...Normally trees and shrubs need not be included, partly because their shapes are almost impossible to predict, and partly because the dapple shade of a tree is more pleasant than a deep shadow of a building (this applies especially to deciduous trees).*" It is assumed that they will predominantly deciduous and therefore any potential effect of the tree canopy is likely to change throughout the year.
- 6.18 By reference to drawing R137/03/TIS/35 and 'Time in Sun' table in Appendix III, these indicate that 39 (80%) of the 49 of the external amenity areas will receive greater than 2 hours of direct sunlight on the ground to over 50% of their area. Of the remaining 10 areas, all but one will receiving sunlight to at least 40% of their area, which should still be considered good in an urban in context. The final space, which will receive 2 hours sunlight to 34.45% of its area, however this is one of the three garden courtyard areas and if these are treated as one combined space they will receive 2 hours sunlight to over 67%, which satisfies the guidelines. Therefore a high level of compliance with the BRE Guidelines will be achieved in respect of overshadowing/sunlight availability and overall the combined sunlight available throughout the site should be considered excellent in an urban context.

## 7. Conclusions

- 7.1 The London Borough of Richmond Upon Thames' planning policy seeks to safeguard daylight and sunlight to existing buildings and promote adequate standards for new developments by reference to the guidance published in BRE Report 209 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice'.
- 7.2 The results of our study confirm that, with the exception of two winter sunlight reductions that are unlikely to be noticeable, all windows and rooms to neighbouring properties with satisfy the BRE guidelines in respect of both Daylight and Sunlight.
- 7.3 For daylight and sunlight amenity within the proposed development, our analysis confirms that the majority of habitable rooms tested will exceed the target values for their use in respect of daylight and sunlight. Where they do not, in many instances this is a result of providing private balconies to the occupants, which provide some compensatory beneficial affect.
- 7.4 In relation to overshadowing/sunlight availability to the individual amenity spaces, a high level of individual compliance with the guidelines is achieved. When these are combined to consider the Proposed Development as a whole, excellent sunlight availability will be achieved.
- 7.5 We therefore suggest the London Borough of Richmond Upon Thames' planning policy on daylight, sunlight and overshadowing will be satisfied.

Appendix I



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**Legend**

**Daylight**

Existing Proposed 1ft Grid Loss Hatching Room Layout

Existing No-Sky Line Contour Proposed No-Sky Line Contour

**Sources of Information**

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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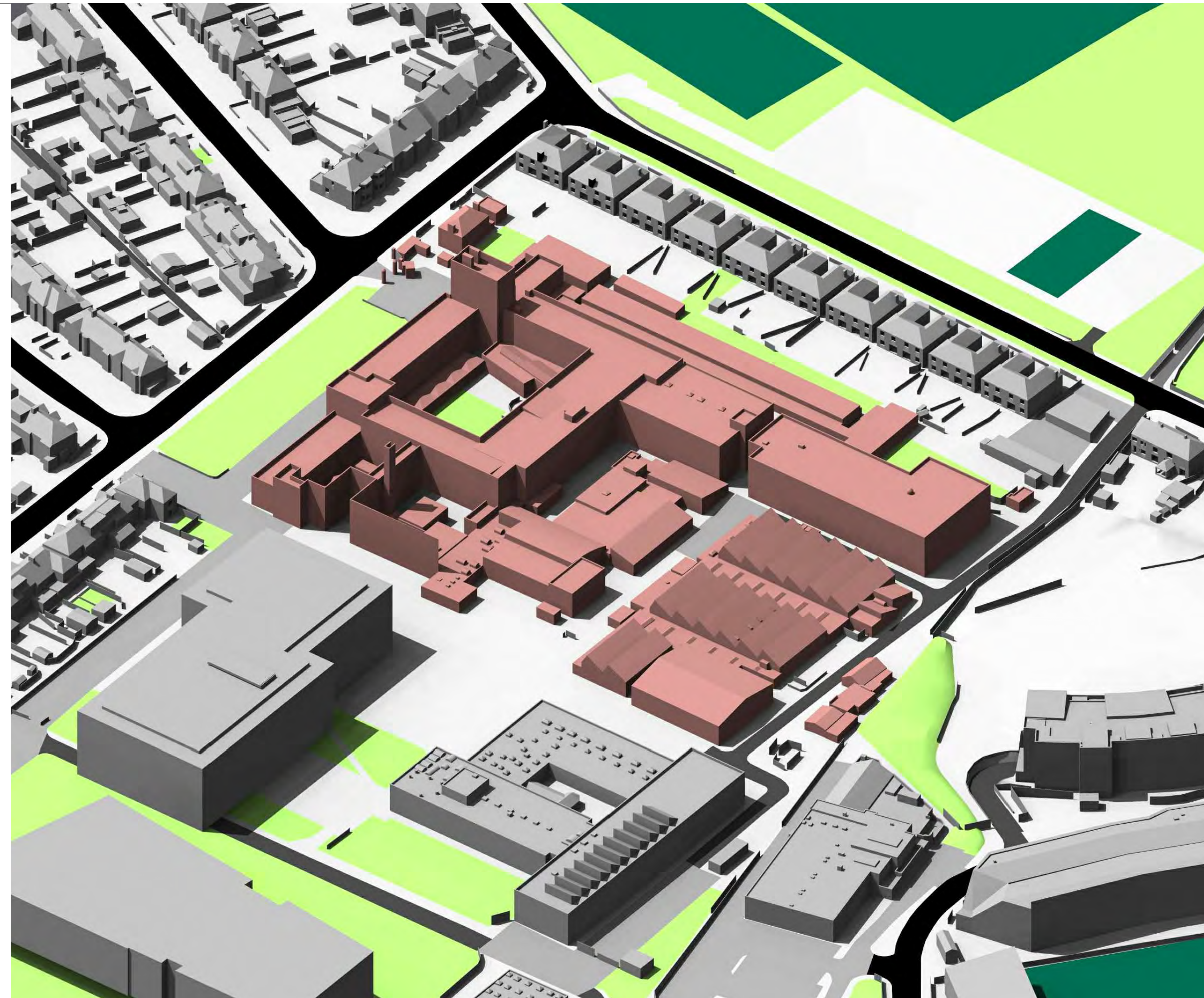
**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

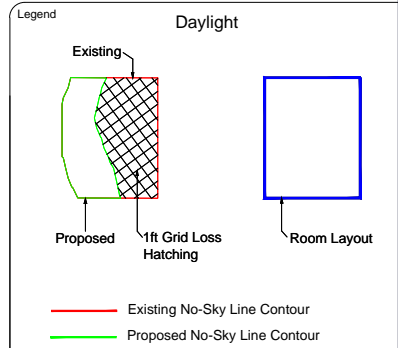
**Drawing Title**  
 PLAN VIEW  
 EXISTING CONDITION

<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 14 NOV 2018
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<b>Project No.</b> RI37/01	<b>Drawing No.</b> BRE/01	<b>Revision</b> -
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Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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 RICHMOND COLLEGE  
 TWICKENHAM

Client  
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Drawing Title  
 3D VIEW  
 EXISTING CONDITION

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/02	Revision -
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**Legend**

**Daylight**

Existing  
Proposed

1ft Grid Loss Hatching

Room Layout

Existing No-Sky Line Contour  
Proposed No-Sky Line Contour

**Sources of Information**

**EXISTING BUILDING**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
 INFO 5 NOVEMBER 2018  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

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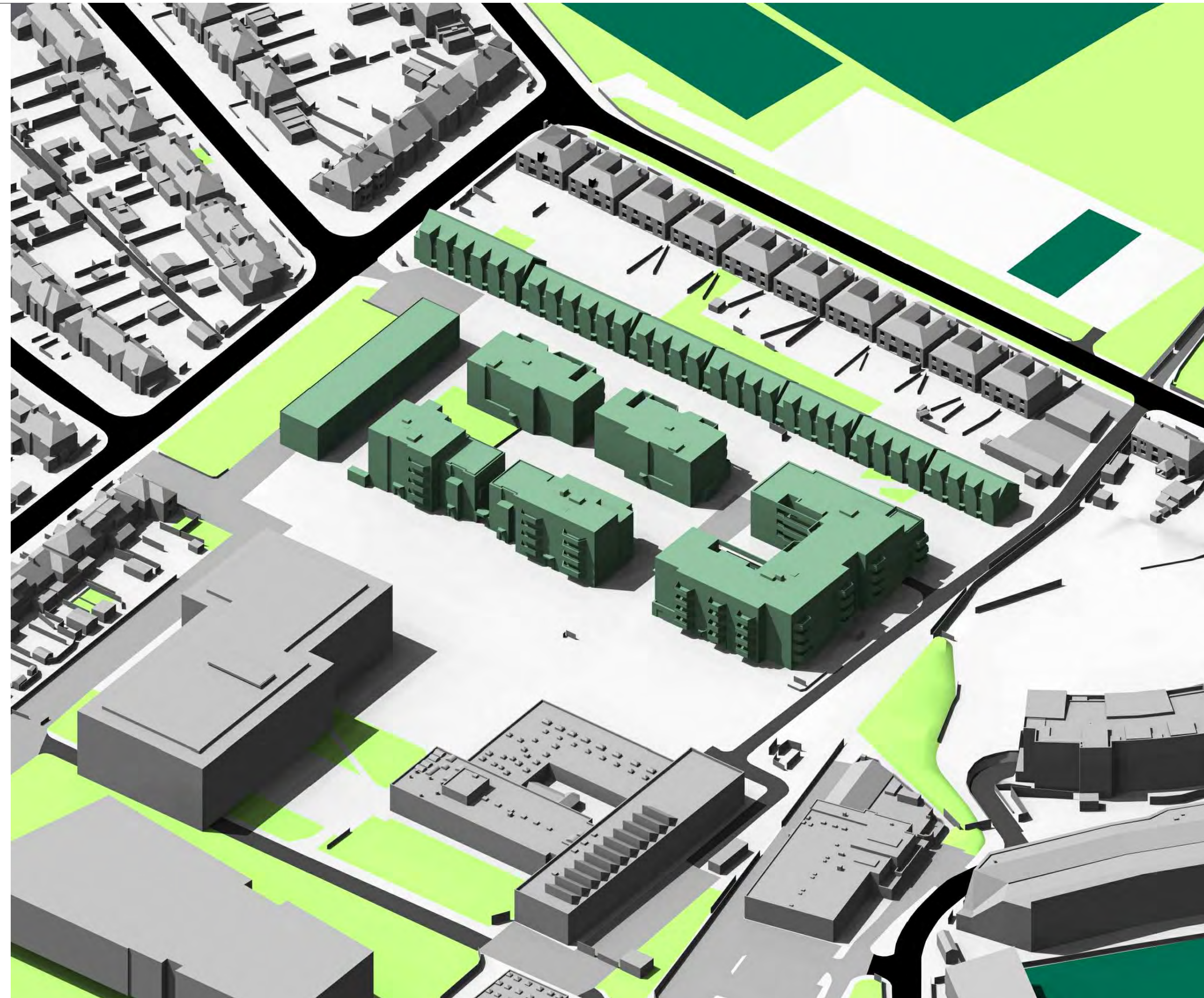
**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

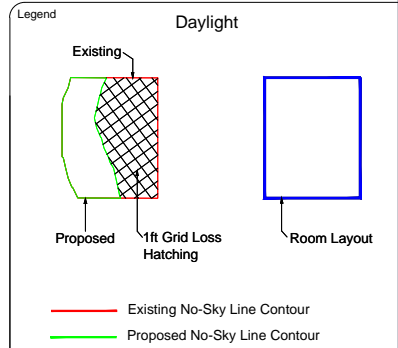
**Drawing Title**  
 PLAN VIEW  
 PROPOSED CONDITION

<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 14 NOV 2018
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<b>Project No.</b> RI37/01	<b>Drawing No.</b> BRE/03	<b>Revision</b> -
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Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**RESEARCH-COLLEGE BUILDINGS TO THE NORTH**

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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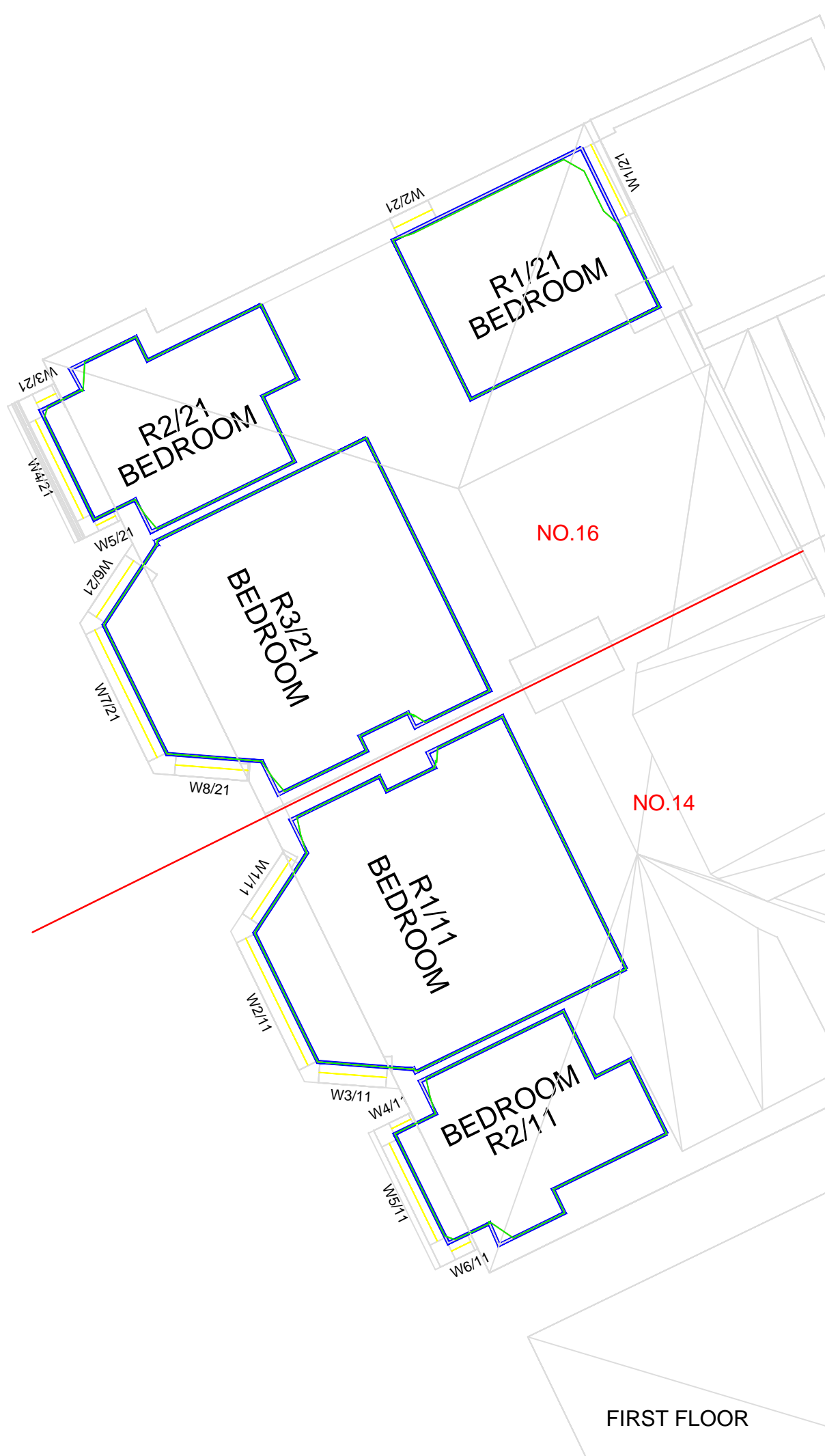
Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 3D VIEW  
 PROPOSED CONDITION

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/04	Revision -
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Legend

Daylight

Sources of Information

**EXISTING BUILDING**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
 INFO 5 NOVEMBER 2018  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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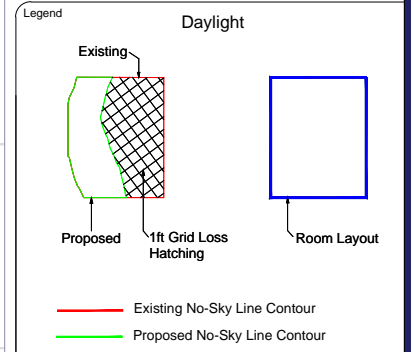
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 14-16 EGERTON ROAD

Drawn By RV	Chk'd By -	Scale @ A3 1:75	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/05	Revision -
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Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

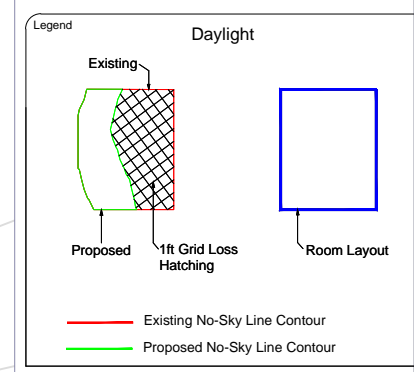
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 NO SKY-LINE CONTOURS FOR  
 96 COURT WAY

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/06	Revision -
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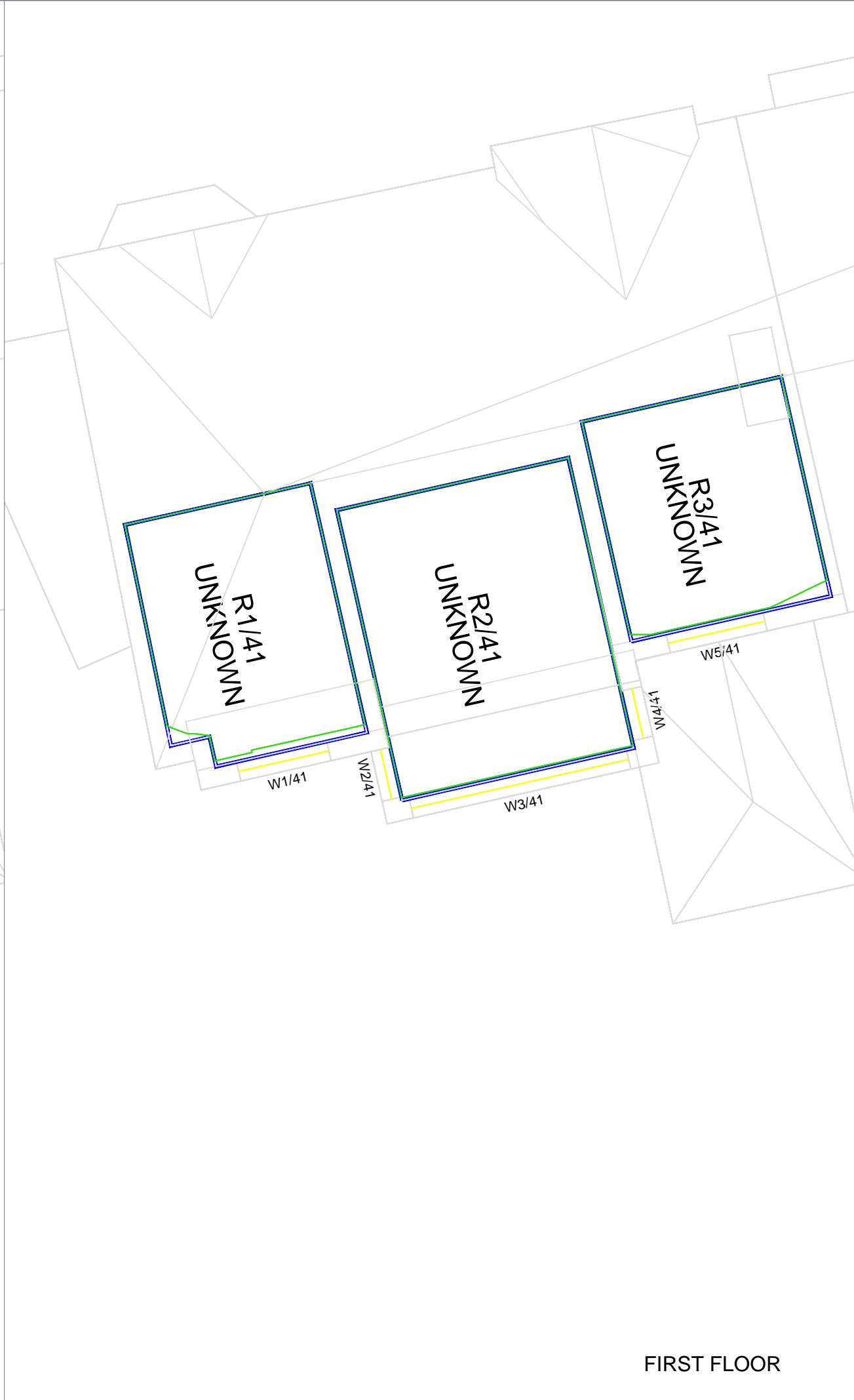


Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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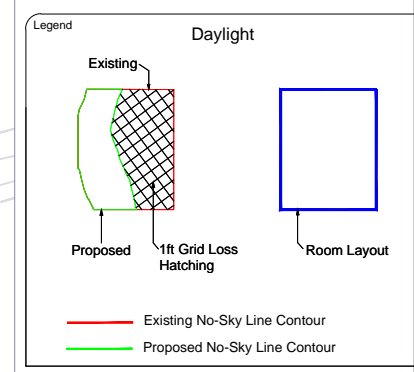
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 94 HEATHFIELD SOUTH

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/07	Revision -
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Sources of Information

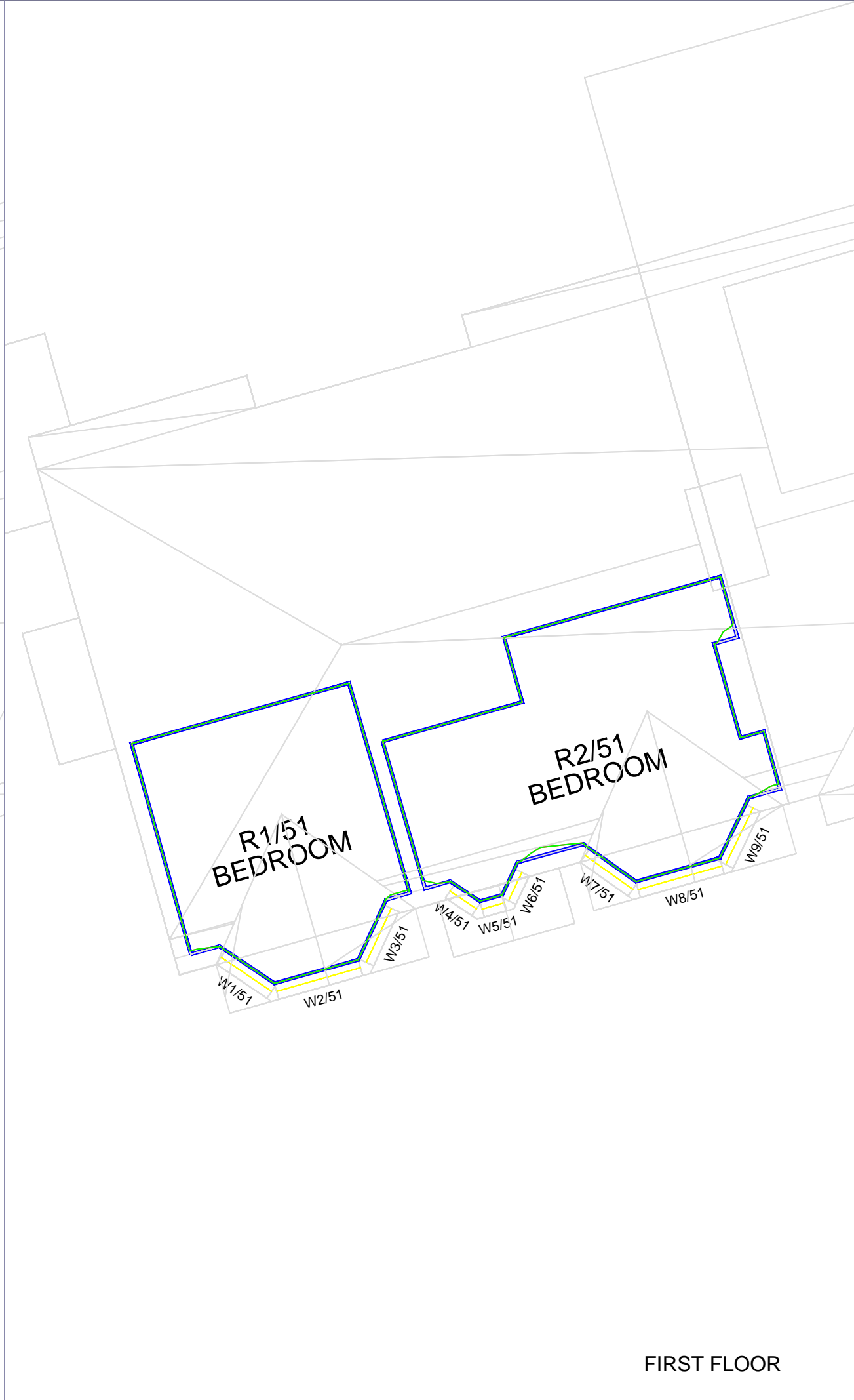
**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



GROUND FLOOR



FIRST FLOOR



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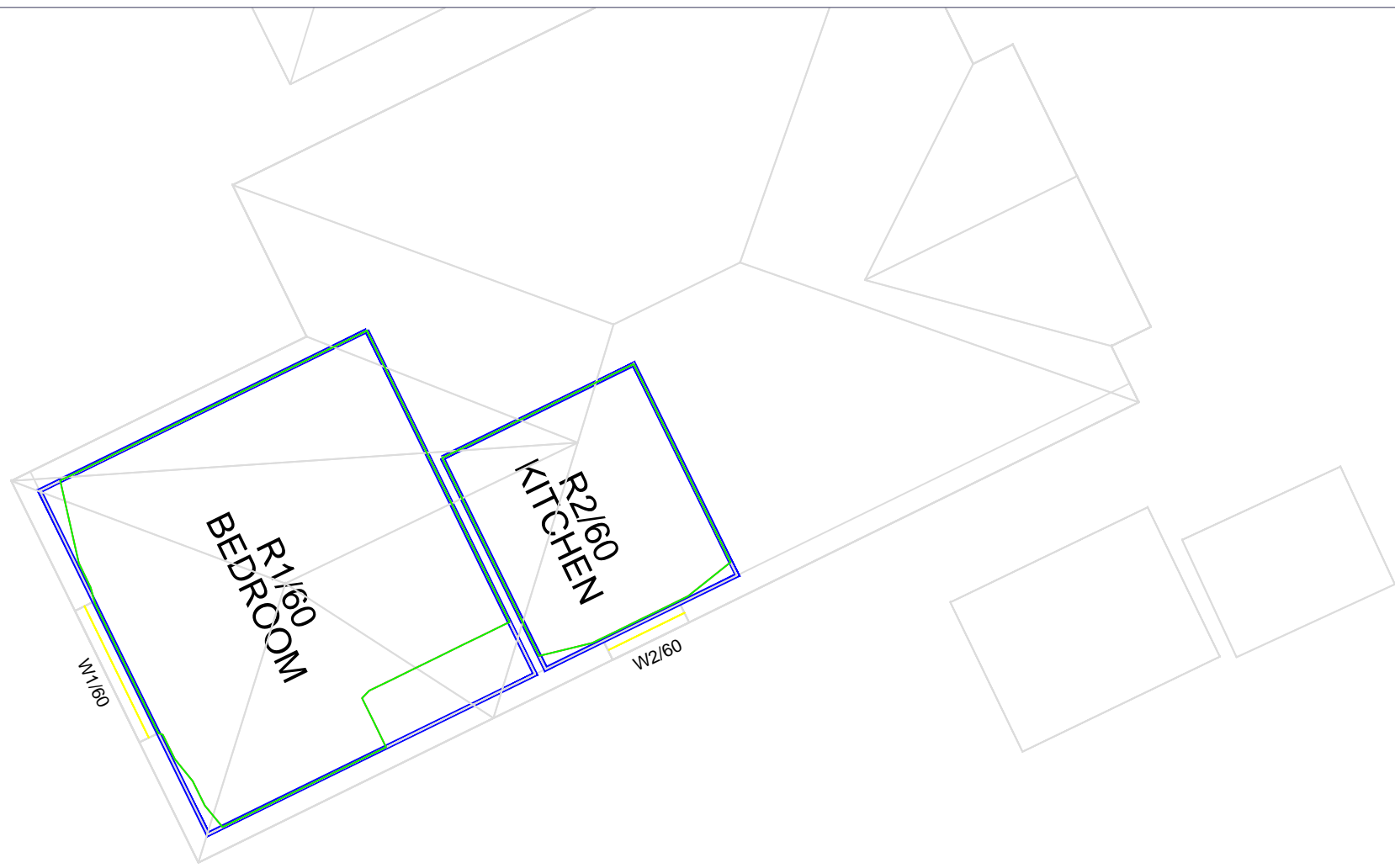
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 97 HEATHFIELD SOUTH

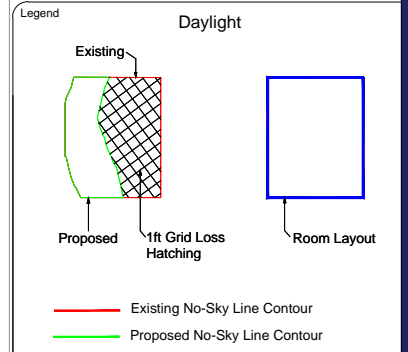
Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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GROUND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



FIRST FLOOR



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 TWICKENHAM

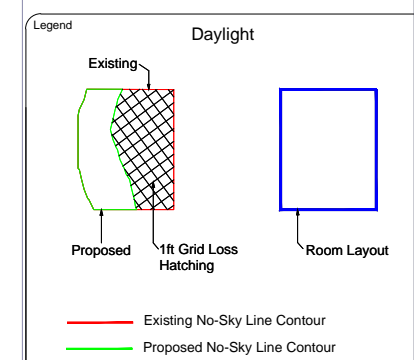
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 3A EGERTON ROAD

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/09	Revision -
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**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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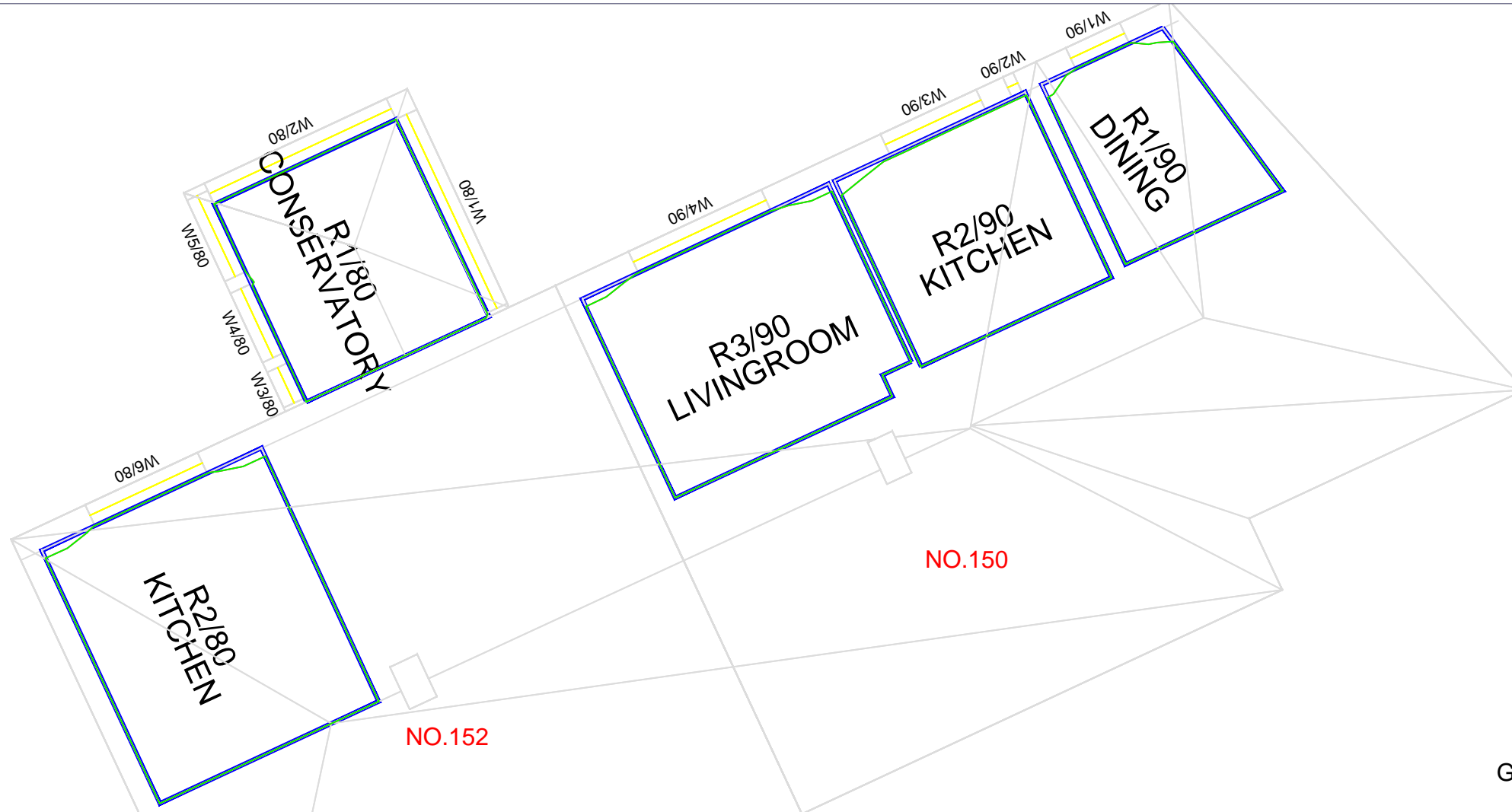
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 CHALLENGE COURT - LANGHORN DRIVE

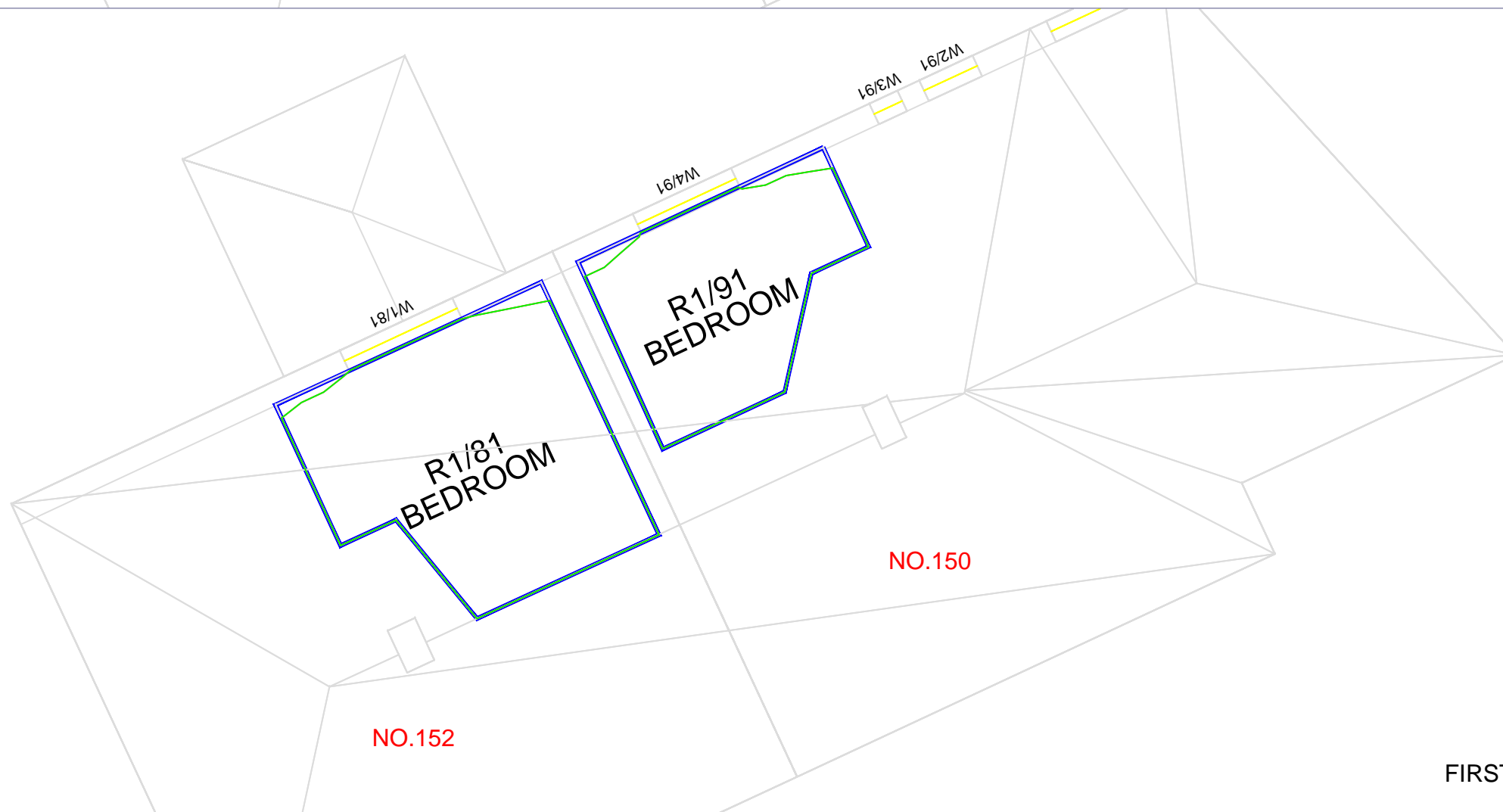
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Project No. RI37/01	Drawing No. BRE/10	Revision -
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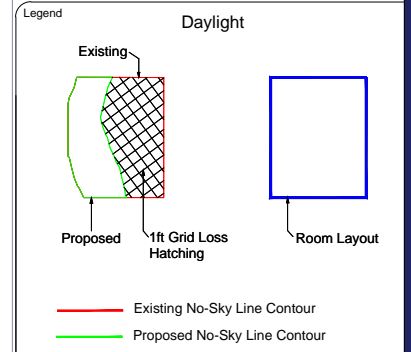
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GROUND FLOOR



FIRST FLOOR



Sources of Information  
**EXISTING BUILDING**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)  
**SURROUNDING BUILDINGS**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH  
**PROPOSED BUILDING**  
 INFO 5 NOVEMBER 2018  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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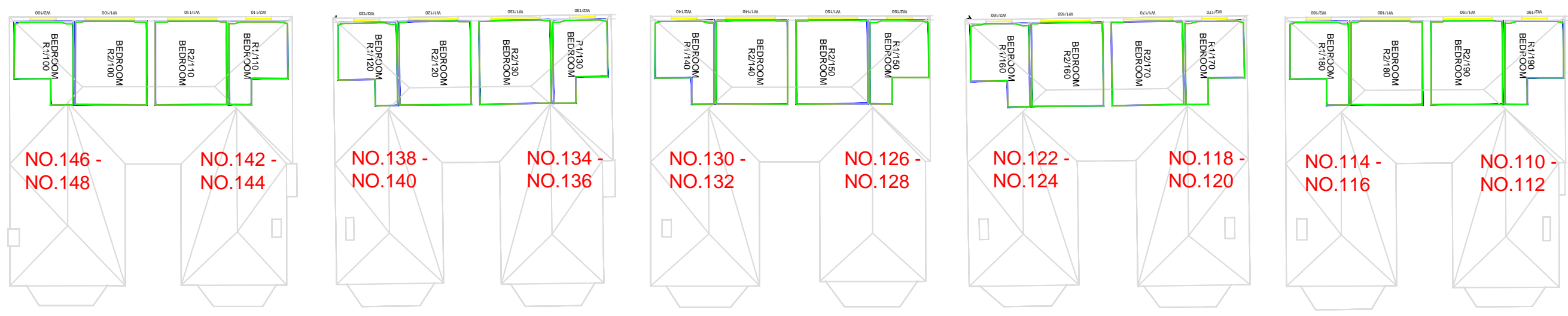
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 150-152 CRANEFORD WAY

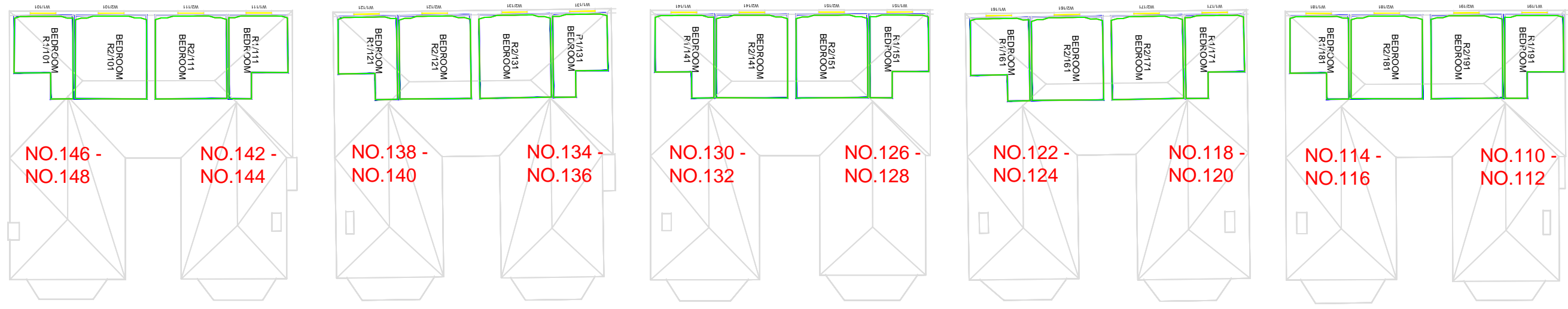
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Project No. RI37/01	Drawing No. BRE/11	Revision -
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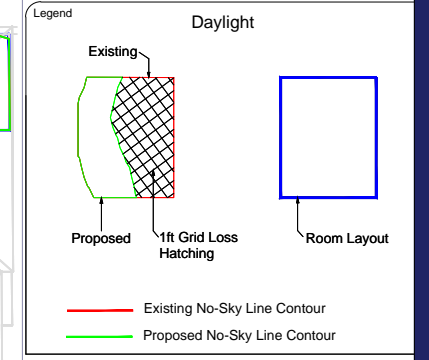
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GROUND FLOOR



FIRST FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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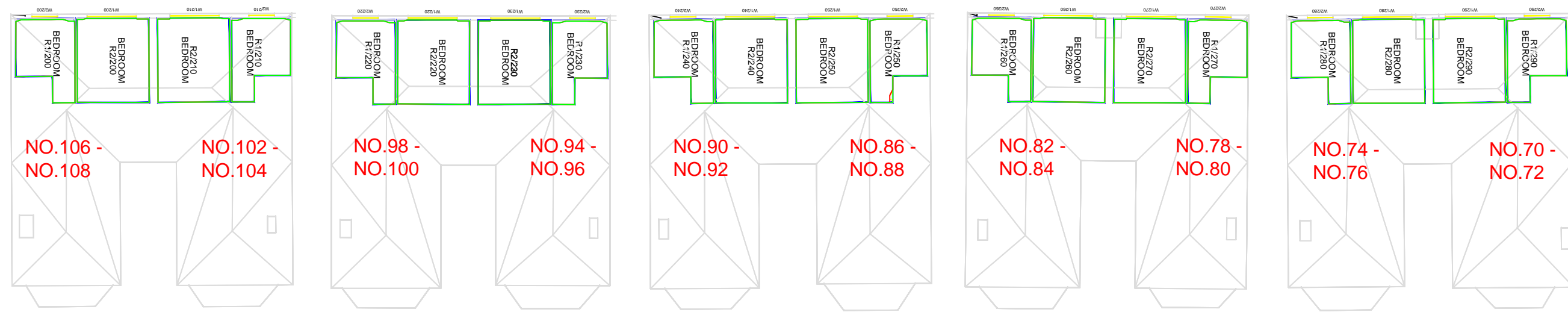
Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 148-110 CRANEFORD WAY

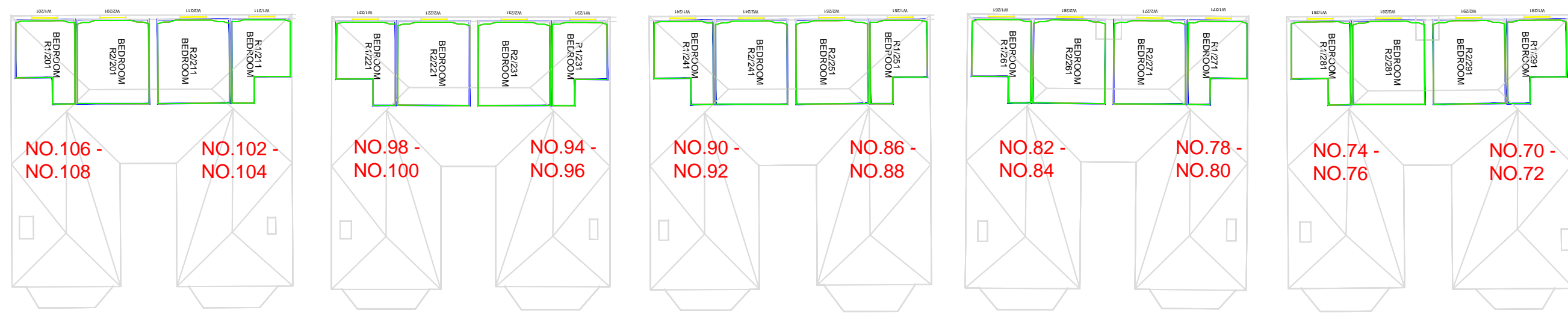
Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 14 NOV 2018
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Project No. RI37/01	Drawing No. BRE/12	Revision -
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GROUND FLOOR



FIRST FLOOR

**Legend**

**Daylight**

Existing  
Proposed  
1ft Grid Loss Hatching  
Room Layout

Existing No-Sky Line Contour  
Proposed No-Sky Line Contour

**Sources of Information**

**EXISTING BUILDING**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
 INFO 5 NOVEMBER 2018  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



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**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 NO SKY-LINE CONTOURS FOR  
 148-110 CRANEFORD WAY

<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 14 NOV 2018
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<b>Project No.</b> RI37/01	<b>Drawing No.</b> BRE/13	<b>Revision</b> -
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**RICHMOND COLLEGE - TWICKENHAM**  
**14-Nov-18**  
**JOB 01 - DAYLIGHT RESULTS**

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
<b>14 EGERTON ROAD - BRE/05</b>										
<b>Gnd Floor</b>										
R1/10	DINING	W1/10	22.20	22.70	-2.25%	3.02	3.06	-1.29%	99.20%	0.00%
		W2/10	34.68	35.39	>27					
		W3/10	25.74	25.99	-0.97%					
<b>1st Floor</b>										
R1/11	BEDROOM	W1/11	28.73	29.26	>27	2.49	2.51	-1.05%	99.73%	0.00%
		W2/11	36.63	37.13	>27					
		W3/11	30.90	30.95	>27					
R2/11	BEDROOM	W4/11	7.62	7.84	-2.89%	1.80	1.81	-0.83%	99.01%	0.00%
		W5/11	36.43	36.79	>27					
		W6/11	25.83	25.83	0.00%					
<b>16 EGERTON ROAD - BRE/05</b>										
<b>Gnd Floor</b>										
R1/20	UNKNOWN	W1/20	34.19	34.50	>27	1.26	1.26	-0.24%	90.73%	0.00%
R2/20	DINING	W2/20	24.18	24.49	-1.28%	3.01	3.04	-1.13%	99.20%	0.00%
		W3/20	34.34	34.86	>27					
		W4/20	23.35	23.60	-1.07%					
<b>1st Floor</b>										
R1/21	BEDROOM	W1/21	37.99	37.99	>27	1.85	1.85	0.00%	96.56%	0.00%
		W2/21	36.66	36.93	>27					
R2/21	BEDROOM	W3/21	27.41	27.77	>27	1.78	1.79	-0.73%	99.01%	0.00%
		W4/21	35.87	36.22	>27					
		W5/21	8.21	8.26	-0.61%					
R3/21	BEDROOM	W6/21	29.37	29.79	>27	2.48	2.50	-1.01%	99.73%	0.00%
		W7/21	36.37	36.88	>27					
		W8/21	29.96	30.07	>27					
<b>96 COURT WAY - BRE/06</b>										
<b>Gnd Floor</b>										
R1/30	UNKNOWN	W1/30	29.48	30.62	>27	2.94	2.97	-0.78%	99.21%	0.00%
		W2/30	35.31	35.33	>27					
		W3/30	12.56	12.43	1.04%					
R2/30	UNKNOWN	W4/30	25.16	25.93	-3.06%	3.63	3.65	-0.41%	99.64%	0.00%
		W5/30	35.86	35.85	>27					
		W6/30	28.31	28.27	>27					
<b>1st Floor</b>										
R1/31	BEDROOM	W1/31	31.68	32.87	>27	2.74	2.77	-1.06%	99.04%	0.00%
		W2/31	36.93	37.09	>27					
		W3/31	15.92	15.82	0.63%					

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
R2/31	STUDY	W4/31	30.38	31.31	>27	1.21	1.22	-1.08%	97.18%	0.00%
		W5/31	37.19	37.29	>27					
		W6/31	26.41	26.32	0.34%					
R3/31	BEDROOM	W7/31	27.25	27.94	>27	2.98	2.99	-0.50%	99.84%	0.00%
		W8/31	37.35	37.43	>27					
		W9/31	31.19	31.16	>27					
<b>94 HEATHFIELD SOUTH - BRE/07</b>										
<b>Gnd Floor</b>										
R1/40	UNKNOWN	W1/40	29.30	29.66	>27	2.74	2.77	-1.10%	98.56%	0.00%
R2/40	UNKNOWN	W2/40	34.17	34.52	>27	1.46	1.48	-0.75%	97.07%	0.00%
		W3/40	32.12	32.48	>27					
<b>1st Floor</b>										
R1/41	UNKNOWN	W1/41	35.01	35.49	>27	1.35	1.36	-1.26%	96.87%	0.00%
R2/41	UNKNOWN	W2/41	21.63	22.48	-3.93%	3.75	3.79	-1.09%	99.08%	0.00%
		W3/41	36.75	37.18	>27					
		W4/41	29.22	29.22	>27					
R3/41	UNKNOWN	W5/41	34.55	34.75	>27	2.00	2.01	-0.25%	97.97%	0.00%
<b>97 HEATHFIELD SOUTH - BRE/08</b>										
<b>Gnd Floor</b>										
R1/50	STUDY	W1/50	33.14	33.60	>27	3.53	3.55	-0.62%	99.26%	0.00%
		W2/50	35.42	35.72	>27					
		W3/50	23.89	23.93	-0.17%					
R2/50	LIVINGROOM	W4/50	19.97	20.28	-1.55%	3.35	3.37	-0.51%	99.21%	0.00%
		W5/50	35.12	35.41	>27					
		W6/50	28.28	28.33	>27					
<b>1st Floor</b>										
R1/51	BEDROOM	W1/51	33.14	33.55	>27	2.66	2.68	-0.64%	99.78%	0.00%
		W2/51	36.91	37.23	>27					
		W3/51	28.96	29.01	>27					
R2/51	BEDROOM	W4/51	24.26	24.54	-1.15%	2.50	2.51	-0.56%	99.16%	0.00%
		W5/51	36.47	36.75	>27					
		W6/51	27.43	27.48	>27					
		W7/51	29.93	30.31	>27					
		W8/51	36.82	37.11	>27					
		W9/51	28.57	28.63	>27					
<b>3A EGERTON ROAD - BRE/09</b>										
<b>Gnd Floor</b>										
R1/60	BEDROOM	W1/60	30.03	31.61	>27	1.56	1.63	-4.10%	91.61%	0.00%
R2/60	KITCHEN	W2/60	34.12	34.77	>27	1.39	1.41	-1.01%	97.60%	0.00%
<b>1st Floor</b>										
R1/61	BEDROOM	W1/61	32.45	33.31	>27	1.19	1.22	-2.18%	94.44%	0.00%
R2/61	KITCHEN	W2/61	36.35	36.80	>27	1.36	1.37	-0.66%	97.60%	0.00%

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
<b>CHALLENGE COURT - LANGHORN DRIVE - BRE/10</b>										
<b>Gnd Floor</b>										
R1/70	BEDROOM	W1/70	37.09	36.36	>27	1.60	1.57	1.88%	98.50%	0.00%
R2/70	LKD	W2/70	37.30	36.44	>27	2.70	2.63	2.67%	99.87%	0.00%
		W3/70	37.22	36.21	>27					
		W4/70	22.74	21.94	3.52%					
R3/70	BEDROOM	W5/70	37.02	36.37	>27	1.71	1.68	1.64%	98.62%	0.00%
<b>1st Floor</b>										
R1/71	BEDROOM	W1/71	38.09	37.50	>27	1.63	1.61	1.47%	98.50%	0.00%
R2/71	LKD	W2/71	38.16	37.48	>27	2.76	2.70	2.07%	99.87%	0.00%
		W3/71	38.09	37.28	>27					
		W4/71	23.41	22.77	2.73%					
R3/71	BEDROOM	W5/71	37.83	37.31	>27	1.73	1.71	1.27%	98.62%	0.00%
<b>2nd Floor</b>										
R1/72	BEDROOM	W1/72	38.72	38.29	>27	1.66	1.64	1.08%	98.50%	0.00%
R2/72	LKD	W2/72	38.75	38.27	>27	2.80	2.76	1.50%	99.87%	0.00%
		W3/72	38.72	38.13	>27					
		W4/72	23.92	23.45	1.96%					
R3/72	BEDROOM	W5/72	38.78	38.41	>27	1.76	1.74	0.97%	98.62%	0.00%
<b>3rd Floor</b>										
R1/73	BEDROOM	W1/73	39.12	38.84	>27	1.68	1.66	0.72%	98.50%	0.00%
R2/73	LKD	W2/73	39.14	38.85	>27	3.90	3.86	0.82%	99.87%	0.00%
		W3/73	39.13	38.76	>27					
		W4/73	39.54	39.21	>27					
R3/73	BEDROOM	W5/73	39.52	39.25	>27	1.78	1.77	0.67%	98.62%	0.00%
<b>152 CRANEFORD WAY - BRE/11</b>										
<b>Gnd Floor</b>										
R1/80	CONSERVATORY	W1/80	23.50	23.49	0.04%	10.34	10.33	0.09%	100.00%	0.00%
		W2/80	35.96	35.85	>27					
		W3/80	19.44	19.44	0.00%					
		W4/80	22.50	22.50	0.00%					
		W5/80	26.51	26.51	0.00%					
R2/80	KITCHEN	W6/80	32.52	32.34	>27	2.16	2.15	0.51%	98.95%	0.00%
<b>1st Floor</b>										
R1/81	BEDROOM	W1/81	37.32	37.27	>27	1.87	1.87	0.11%	97.90%	0.00%
<b>150 CRANEFORD WAY - BRE/11</b>										
<b>Gnd Floor</b>										
R1/90	DINING	W1/90	34.82	34.87	>27	1.79	1.79	-0.17%	98.20%	0.00%
R2/90	KITCHEN	W2/90	35.65	35.74	>27	2.10	2.10	-0.05%	97.71%	0.00%
		W3/90	35.91	35.96	>27					
R3/90	LIVINGROOM	W4/90	34.77	34.73	>27	3.15	3.15	0.10%	98.89%	0.00%
<b>1st Floor</b>										
R1/91	BEDROOM	W4/91	37.13	37.13	>27	1.93	1.93	0.00%	96.00%	0.00%

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
<b>146-148 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/100	BEDROOM	W2/100	34.33	34.01	>27	1.63	1.62	0.74%	98.21%	0.00%
R2/100	BEDROOM	W1/100	34.01	33.63	>27	3.42	3.39	0.88%	99.72%	0.00%
<b>1st Floor</b>										
R1/101	BEDROOM	W1/101	35.90	35.97	>27	1.52	1.52	-0.20%	98.21%	0.00%
R2/101	BEDROOM	W2/101	35.83	35.93	>27	1.24	1.24	-0.32%	97.91%	0.00%
<b>142-144 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/110	BEDROOM	W2/110	34.16	33.86	>27	1.62	1.61	0.74%	98.21%	0.00%
R2/110	BEDROOM	W1/110	33.95	33.57	>27	3.41	3.39	0.85%	99.72%	0.00%
<b>1st Floor</b>										
R1/111	BEDROOM	W1/111	35.73	35.91	>27	1.51	1.52	-0.46%	98.21%	0.00%
R2/111	BEDROOM	W2/111	35.75	35.92	>27	1.23	1.24	-0.49%	97.91%	0.00%
<b>138-140 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/120	BEDROOM	W2/120	34.13	33.86	>27	1.63	1.62	0.61%	98.21%	0.00%
R2/120	BEDROOM	W1/120	33.88	33.55	>27	3.42	3.39	0.73%	99.72%	0.00%
<b>1st Floor</b>										
R1/121	BEDROOM	W1/121	35.70	35.92	>27	1.51	1.52	-0.60%	98.21%	0.00%
R2/121	BEDROOM	W2/121	35.70	35.94	>27	1.23	1.24	-0.65%	97.91%	0.00%
<b>134-136 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/130	BEDROOM	W2/130	34.09	33.84	>27	1.69	1.68	0.59%	98.10%	0.00%
R2/130	BEDROOM	W1/130	33.87	33.55	>27	3.42	3.39	0.76%	99.72%	0.00%
<b>1st Floor</b>										
R1/131	BEDROOM	W1/131	35.67	35.91	>27	1.57	1.58	-0.64%	98.10%	0.00%
R2/131	BEDROOM	W2/131	35.67	35.91	>27	1.23	1.24	-0.57%	97.91%	0.00%
<b>130-132 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/140	BEDROOM	W2/140	34.10	33.85	>27	1.59	1.58	0.63%	98.21%	0.00%
R2/140	BEDROOM	W1/140	33.87	33.55	>27	3.36	3.33	0.72%	99.72%	0.00%
<b>1st Floor</b>										
R1/141	BEDROOM	W1/141	35.79	36.09	>27	1.52	1.53	-0.73%	98.21%	0.00%
R2/141	BEDROOM	W2/141	35.81	36.10	>27	1.24	1.25	-0.73%	97.91%	0.00%
<b>126-128 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/150	BEDROOM	W2/150	34.11	33.90	>27	1.59	1.58	0.56%	98.21%	0.00%
R2/150	BEDROOM	W1/150	33.89	33.58	>27	3.36	3.33	0.77%	99.72%	0.00%
<b>1st Floor</b>										
R1/151	BEDROOM	W1/151	35.72	36.04	>27	1.51	1.52	-0.79%	98.21%	0.00%
R2/151	BEDROOM	W2/151	35.73	36.03	>27	1.23	1.24	-0.73%	97.91%	0.00%
<b>122-124 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/160	BEDROOM	W2/160	33.89	33.71	>27	1.57	1.57	0.38%	98.84%	0.00%
R2/160	BEDROOM	W1/160	33.66	33.43	>27	3.21	3.20	0.47%	99.72%	0.00%

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
<b>1st Floor</b>										
R1/161	BEDROOM	W1/161	35.56	35.93	>27	1.51	1.52	-0.93%	98.21%	0.00%
R2/161	BEDROOM	W2/161	35.55	35.95	>27	1.23	1.24	-1.06%	97.91%	0.00%
<b>118-120 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/170	BEDROOM	W2/170	33.88	33.92	>27	1.64	1.64	-0.12%	98.21%	0.00%
R2/170	BEDROOM	W1/170	33.69	33.60	>27	3.45	3.44	0.15%	99.72%	0.00%
<b>1st Floor</b>										
R1/171	BEDROOM	W1/171	35.44	35.98	>27	1.50	1.52	-1.33%	98.21%	0.00%
R2/171	BEDROOM	W2/171	35.49	35.96	>27	1.23	1.24	-1.22%	97.91%	0.00%
<b>114-116 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/180	BEDROOM	W2/180	33.82	33.95	>27	1.61	1.62	-0.37%	98.21%	0.00%
R2/180	BEDROOM	W1/180	33.55	33.68	>27	3.39	3.40	-0.41%	99.72%	0.00%
<b>1st Floor</b>										
R1/181	BEDROOM	W1/181	35.41	36.03	>27	1.50	1.52	-1.60%	98.21%	0.00%
R2/181	BEDROOM	W2/181	35.38	36.04	>27	1.22	1.24	-1.72%	97.91%	0.00%
<b>110-112 CRANEFORD WAY - BRE/12</b>										
<b>Gnd Floor</b>										
R1/190	BEDROOM	W2/190	33.68	33.99	>27	1.61	1.62	-0.81%	98.21%	0.00%
R2/190	BEDROOM	W1/190	33.51	33.69	>27	3.38	3.40	-0.56%	99.72%	0.00%
<b>1st Floor</b>										
R1/191	BEDROOM	W1/191	35.29	36.06	>27	1.50	1.53	-2.01%	98.21%	0.00%
R2/191	BEDROOM	W2/191	35.34	36.06	>27	1.22	1.24	-1.88%	97.91%	0.00%
<b>106-108 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/200	BEDROOM	W2/200	33.67	34.09	>27	1.67	1.69	-1.14%	98.21%	0.00%
R2/200	BEDROOM	W1/200	33.42	33.81	>27	3.49	3.52	-1.09%	99.72%	0.00%
<b>1st Floor</b>										
R1/201	BEDROOM	W1/201	35.20	36.04	>27	1.49	1.52	-2.14%	98.21%	0.00%
R2/201	BEDROOM	W2/201	35.18	36.06	>27	1.22	1.24	-2.39%	97.91%	0.00%
<b>102-104 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/210	BEDROOM	W2/210	33.57	34.12	>27	1.67	1.69	-1.38%	98.10%	0.00%
R2/210	BEDROOM	W1/210	33.36	33.81	>27	3.48	3.52	-1.24%	99.72%	0.00%
<b>1st Floor</b>										
R1/211	BEDROOM	W1/211	35.11	36.06	>27	1.49	1.53	-2.41%	98.10%	0.00%
R2/211	BEDROOM	W2/211	35.13	36.06	>27	1.22	1.24	-2.39%	97.91%	0.00%
<b>98-100 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/220	BEDROOM	W2/220	33.66	34.18	>27	1.68	1.70	-1.37%	98.21%	0.00%
R2/220	BEDROOM	W1/220	33.39	33.89	>27	3.51	3.56	-1.34%	99.72%	0.00%
<b>1st Floor</b>										
R1/221	BEDROOM	W1/221	35.19	36.09	>27	1.49	1.53	-2.35%	98.21%	0.00%
R2/221	BEDROOM	W2/221	35.18	36.10	>27	1.22	1.25	-2.22%	97.91%	0.00%

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
<b>94-96 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/230	BEDROOM	W2/230	33.79	34.18	>27	1.76	1.78	-1.02%	98.10%	0.00%
R2/230	BEDROOM	W1/230	33.45	33.89	>27	3.52	3.56	-1.19%	99.72%	0.00%
<b>1st Floor</b>										
R1/231	BEDROOM	W1/231	35.33	36.09	>27	1.56	1.59	-1.99%	98.10%	0.00%
R2/231	BEDROOM	W2/231	35.25	36.09	>27	1.22	1.25	-2.13%	97.91%	0.00%
<b>90-92 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/240	BEDROOM	W2/240	33.93	34.18	>27	1.70	1.71	-0.47%	98.21%	0.00%
R2/240	BEDROOM	W1/240	33.77	33.88	>27	3.55	3.56	-0.34%	99.72%	0.00%
<b>1st Floor</b>										
R1/241	BEDROOM	W1/241	35.47	36.09	>27	1.51	1.53	-1.40%	98.21%	0.00%
R2/241	BEDROOM	W2/241	35.60	36.08	>27	1.23	1.25	-1.22%	97.91%	0.00%
<b>86-88 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/250	BEDROOM	W2/250	34.43	34.29	>27	1.75	1.75	0.34%	98.38%	-0.78%
R2/250	BEDROOM	W1/250	33.97	33.90	>27	3.57	3.56	0.28%	99.72%	0.00%
<b>1st Floor</b>										
R1/251	BEDROOM	W1/251	35.94	36.14	>27	1.55	1.56	-0.58%	98.05%	0.00%
R2/251	BEDROOM	W2/251	35.80	36.09	>27	1.24	1.25	-0.73%	97.91%	0.00%
<b>82-84 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/260	BEDROOM	W2/260	34.64	34.15	>27	1.69	1.67	1.24%	98.21%	0.00%
R2/260	BEDROOM	W1/260	34.63	33.87	>27	3.56	3.50	1.82%	99.72%	0.00%
<b>1st Floor</b>										
R1/261	BEDROOM	W1/261	36.09	36.10	>27	1.53	1.53	-0.07%	98.21%	0.00%
R2/261	BEDROOM	W2/261	36.21	36.10	>27	1.25	1.25	0.24%	97.91%	0.00%
<b>78-80 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/270	BEDROOM	W2/270	34.91	34.29	>27	1.71	1.68	1.52%	98.21%	0.00%
R2/270	BEDROOM	W1/270	34.68	33.93	>27	3.57	3.51	1.77%	99.72%	0.00%
<b>1st Floor</b>										
R1/271	BEDROOM	W1/271	36.35	36.20	>27	1.54	1.53	0.39%	98.21%	0.00%
R2/271	BEDROOM	W2/271	36.30	36.15	>27	1.25	1.25	0.40%	97.91%	0.00%
<b>74-76 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/280	BEDROOM	W2/280	34.90	34.43	>27	1.70	1.68	1.18%	98.21%	0.00%
R2/280	BEDROOM	W1/280	34.58	34.28	>27	3.54	3.52	0.73%	99.72%	0.00%
<b>1st Floor</b>										
R1/281	BEDROOM	W1/281	36.47	36.32	>27	1.54	1.54	0.32%	98.21%	0.00%
R2/281	BEDROOM	W2/281	36.49	36.41	>27	1.26	1.26	0.16%	97.91%	0.00%
<b>70-72 CRANEFORD WAY - BRE/13</b>										
<b>Gnd Floor</b>										
R1/290	BEDROOM	W2/290	34.93	34.85	>27	1.70	1.70	0.29%	98.21%	0.00%
R2/290	BEDROOM	W1/290	34.57	34.44	>27	3.54	3.53	0.28%	99.72%	0.00%

Room/Floor	Room Use	Window	%VSC			% Daylight Factor			Proposed No Sky	
			Exist	Prop	% Loss	Exist	Prop	% Loss	% of Room Area	% Loss of Existing
<b>1st Floor</b>										
R1/291	BEDROOM	W1/291	36.55	36.63	>27	1.55	1.55	-0.13%	98.21%	0.00%
R2/291	BEDROOM	W2/291	36.49	36.52	>27	1.26	1.26	-0.08%	97.91%	0.00%

**RICHMOND COLLEGE - TWICKENHAM**  
**14-Nov-18**  
**JOB 01 - SUNLIGHT RESULTS**

Available sunlight as a percentage of annual unobstructed total (1486.0 Hrs)

Room use	Window Ref	Existing %			Proposed %			% Loss of Summer	% Loss of Winter	% Loss of Total
		Summer	Winter	Total	Summer	Winter	Total			
<b>14 EGERTON ROAD</b>										
<b>Gnd Floor</b>										
DINING	W1/10	11.00	1.00	12.00	13.00	1.00	14.00	-18.18%	0.00%	-16.67%
DINING	W2/10	30.00	17.00	47.00	31.00	17.00	48.00	-3.33%	0.00%	-2.13%
DINING	W3/10	23.00	17.00	40.00	23.00	17.00	40.00	0.00%	0.00%	0.00%
<b>1st Floor</b>										
BEDROOM	W1/11	13.00	1.00	14.00	15.00	2.00	17.00	-15.38%	-100.00%	-21.43%
BEDROOM	W2/11	27.00	16.00	43.00	28.00	17.00	45.00	-3.70%	-6.25%	-4.65%
BEDROOM	W3/11	31.00	18.00	49.00	31.00	18.00	49.00	0.00%	0.00%	0.00%
BEDROOM	W4/11	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
BEDROOM	W5/11	27.00	17.00	44.00	28.00	17.00	45.00	-3.70%	0.00%	-2.27%
BEDROOM	W6/11	10.00	9.00	19.00	10.00	9.00	19.00	0.00%	0.00%	0.00%
<b>16 EGERTON ROAD</b>										
<b>Gnd Floor</b>										
DINING	W2/20	13.00	1.00	14.00	13.00	0.00	13.00	0.00%	100.00%	7.14%
DINING	W3/20	31.00	16.00	47.00	33.00	16.00	49.00	-6.45%	0.00%	-4.26%
DINING	W4/20	21.00	15.00	36.00	21.00	16.00	37.00	0.00%	-6.67%	-2.78%
<b>1st Floor</b>										
BEDROOM	W3/21	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
BEDROOM	W4/21	29.00	16.00	45.00	29.00	15.00	44.00	0.00%	6.25%	2.22%
BEDROOM	W5/21	7.00	0.00	7.00	7.00	0.00	7.00	0.00%	0.00%	0.00%
BEDROOM	W6/21	13.00	2.00	15.00	14.00	1.00	15.00	-7.69%	50.00%	0.00%
BEDROOM	W7/21	27.00	16.00	43.00	29.00	16.00	45.00	-7.41%	0.00%	-4.65%
BEDROOM	W8/21	33.00	18.00	51.00	33.00	18.00	51.00	0.00%	0.00%	0.00%
<b>96 COURT WAY</b>										
<b>Gnd Floor</b>										
UNKNOWN	W1/30	29.00	11.00	40.00	29.00	14.00	43.00	0.00%	-27.27%	-7.50%
UNKNOWN	W2/30	44.00	27.00	71.00	44.00	28.00	72.00	0.00%	-3.70%	-1.41%
UNKNOWN	W3/30	13.00	9.00	22.00	13.00	9.00	22.00	0.00%	0.00%	0.00%
UNKNOWN	W4/30	25.00	13.00	38.00	25.00	14.00	39.00	0.00%	-7.69%	-2.63%
UNKNOWN	W5/30	44.00	27.00	71.00	44.00	28.00	72.00	0.00%	-3.70%	-1.41%
UNKNOWN	W6/30	29.00	12.00	41.00	29.00	12.00	41.00	0.00%	0.00%	0.00%
<b>1st Floor</b>										
BEDROOM	W1/31	28.00	12.00	40.00	28.00	14.00	42.00	0.00%	-16.67%	-5.00%
BEDROOM	W2/31	43.00	27.00	70.00	43.00	28.00	71.00	0.00%	-3.70%	-1.43%
BEDROOM	W3/31	13.00	9.00	22.00	13.00	9.00	22.00	0.00%	0.00%	0.00%
STUDY	W4/31	18.00	5.00	23.00	18.00	6.00	24.00	0.00%	-20.00%	-4.35%
STUDY	W5/31	15.00	16.00	31.00	15.00	16.00	31.00	0.00%	0.00%	0.00%
STUDY	W6/31	14.00	6.00	20.00	14.00	6.00	20.00	0.00%	0.00%	0.00%
BEDROOM	W7/31	21.00	13.00	34.00	21.00	14.00	35.00	0.00%	-7.69%	-2.94%
BEDROOM	W8/31	43.00	27.00	70.00	43.00	28.00	71.00	0.00%	-3.70%	-1.43%
BEDROOM	W9/31	27.00	12.00	39.00	27.00	12.00	39.00	0.00%	0.00%	0.00%



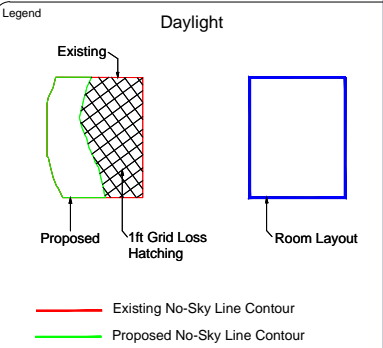
Room use	Window Ref	Existing %			Proposed %			% Loss of Summer	% Loss of Winter	% Loss of Total
		Summer	Winter	Total	Summer	Winter	Total			
<b>94 HEATHFIELD SOUTH</b>										
<b>Gnd Floor</b>										
UNKNOWN	W1/40	34.00	22.00	56.00	34.00	23.00	57.00	0.00%	-4.55%	-1.79%
UNKNOWN	W2/40	27.00	19.00	46.00	27.00	20.00	47.00	0.00%	-5.26%	-2.17%
UNKNOWN	W3/40	37.00	21.00	58.00	37.00	22.00	59.00	0.00%	-4.76%	-1.72%
<b>1st Floor</b>										
UNKNOWN	W1/41	38.00	24.00	62.00	38.00	25.00	63.00	0.00%	-4.17%	-1.61%
UNKNOWN	W2/41	19.00	7.00	26.00	19.00	7.00	26.00	0.00%	0.00%	0.00%
UNKNOWN	W3/41	45.00	27.00	72.00	45.00	27.00	72.00	0.00%	0.00%	0.00%
UNKNOWN	W4/41	20.00	3.00	23.00	20.00	3.00	23.00	0.00%	0.00%	0.00%
UNKNOWN	W5/41	42.00	22.00	64.00	42.00	22.00	64.00	0.00%	0.00%	0.00%
<b>97 HEATHFIELD SOUTH</b>										
<b>Gnd Floor</b>										
STUDY	W1/50	33.00	21.00	54.00	33.00	21.00	54.00	0.00%	0.00%	0.00%
STUDY	W2/50	43.00	26.00	69.00	43.00	26.00	69.00	0.00%	0.00%	0.00%
STUDY	W3/50	23.00	13.00	36.00	23.00	13.00	36.00	0.00%	0.00%	0.00%
LIVINGROOM	W4/50	22.00	15.00	37.00	22.00	15.00	37.00	0.00%	0.00%	0.00%
LIVINGROOM	W5/50	43.00	26.00	69.00	43.00	25.00	68.00	0.00%	3.85%	1.45%
LIVINGROOM	W6/50	29.00	13.00	42.00	29.00	13.00	42.00	0.00%	0.00%	0.00%
<b>1st Floor</b>										
BEDROOM	W1/51	27.00	21.00	48.00	27.00	22.00	49.00	0.00%	-4.76%	-2.08%
BEDROOM	W2/51	42.00	27.00	69.00	42.00	28.00	70.00	0.00%	-3.70%	-1.45%
BEDROOM	W3/51	26.00	13.00	39.00	26.00	13.00	39.00	0.00%	0.00%	0.00%
BEDROOM	W4/51	15.00	14.00	29.00	15.00	14.00	29.00	0.00%	0.00%	0.00%
BEDROOM	W5/51	17.00	16.00	33.00	17.00	16.00	33.00	0.00%	0.00%	0.00%
BEDROOM	W6/51	20.00	9.00	29.00	20.00	9.00	29.00	0.00%	0.00%	0.00%
BEDROOM	W7/51	22.00	18.00	40.00	22.00	19.00	41.00	0.00%	-5.56%	-2.50%
BEDROOM	W8/51	42.00	27.00	69.00	42.00	28.00	70.00	0.00%	-3.70%	-1.45%
BEDROOM	W9/51	29.00	14.00	43.00	29.00	14.00	43.00	0.00%	0.00%	0.00%
<b>3A EGERTON ROAD</b>										
<b>Gnd Floor</b>										
BEDROOM	W1/60	29.00	13.00	42.00	29.00	15.00	44.00	0.00%	-15.38%	-4.76%
KITCHEN	W2/60	38.00	23.00	61.00	38.00	22.00	60.00	0.00%	4.35%	1.64%
<b>1st Floor</b>										
BEDROOM	W1/61	28.00	16.00	44.00	28.00	17.00	45.00	0.00%	-6.25%	-2.27%
KITCHEN	W2/61	38.00	23.00	61.00	38.00	23.00	61.00	0.00%	0.00%	0.00%
<b>CHALLENGE COURT - LANGHORN DRIVE</b>										
<b>Gnd Floor</b>										
LKD	W2/70	5.00	0.00	5.00	4.00	0.00	4.00	20.00%	0.00%	20.00%
LKD	W3/70	11.00	0.00	11.00	10.00	0.00	10.00	9.09%	0.00%	9.09%
LKD	W4/70	16.00	19.00	35.00	15.00	19.00	34.00	6.25%	0.00%	2.86%
BEDROOM	W5/70	36.00	18.00	54.00	35.00	18.00	53.00	2.78%	0.00%	1.85%
<b>1st Floor</b>										
LKD	W2/71	5.00	0.00	5.00	4.00	0.00	4.00	20.00%	0.00%	20.00%
LKD	W3/71	11.00	0.00	11.00	10.00	0.00	10.00	9.09%	0.00%	9.09%
LKD	W4/71	16.00	19.00	35.00	15.00	19.00	34.00	6.25%	0.00%	2.86%
BEDROOM	W5/71	36.00	18.00	54.00	35.00	18.00	53.00	2.78%	0.00%	1.85%
<b>2nd Floor</b>										
LKD	W2/72	5.00	0.00	5.00	5.00	0.00	5.00	0.00%	0.00%	0.00%
LKD	W3/72	11.00	0.00	11.00	10.00	0.00	10.00	9.09%	0.00%	9.09%
LKD	W4/72	16.00	19.00	35.00	15.00	19.00	34.00	6.25%	0.00%	2.86%
BEDROOM	W5/72	36.00	18.00	54.00	36.00	18.00	54.00	0.00%	0.00%	0.00%

Room use	Window Ref	Existing %			Proposed %			% Loss of Summer	% Loss of Winter	% Loss of Total
		Summer	Winter	Total	Summer	Winter	Total			
<b>3rd Floor</b>										
LKD	W2/73	5.00	0.00	5.00	5.00	0.00	5.00	0.00%	0.00%	0.00%
LKD	W3/73	11.00	0.00	11.00	11.00	0.00	11.00	0.00%	0.00%	0.00%
LKD	W4/73	39.00	20.00	59.00	39.00	20.00	59.00	0.00%	0.00%	0.00%
BEDROOM	W5/73	36.00	18.00	54.00	36.00	18.00	54.00	0.00%	0.00%	0.00%
<b>152 CRANEFORD WAY</b>										
<b>Gnd Floor</b>										
CONSERVATORY	W1/80	0.00	0.00	0.00	0.00	0.00	0.00	0.00%	0.00%	0.00%
CONSERVATORY	W2/80	8.00	0.00	8.00	8.00	0.00	8.00	0.00%	0.00%	0.00%
CONSERVATORY	W3/80	13.00	2.00	15.00	13.00	2.00	15.00	0.00%	0.00%	0.00%
CONSERVATORY	W4/80	19.00	2.00	21.00	19.00	2.00	21.00	0.00%	0.00%	0.00%
CONSERVATORY	W5/80	27.00	3.00	30.00	27.00	3.00	30.00	0.00%	0.00%	0.00%

Appendix II



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- Sources of Information
- EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- RESEARCH-COLLEGE BUILDINGS TO THE NORTH
- PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05
- INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings
- INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments
- INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review
- |                              |                              |
|------------------------------|------------------------------|
| D (B4) 100.dwg               | D (B5) 100.dwg               |
| D (B4) 101.dwg               | D (B5) 101.dwg               |
| D (B4) 102.dwg               | D (B5) 102.dwg               |
| D (B4) 103.dwg               | D (B5) 103.dwg               |
| D (B4) 104.dwg               | D (B5) 104.dwg               |
| D (B4) 200_Elevation C.dwg   | D (B5) 202 - Elevation E.dwg |
| D (T3) 100.dwg               | D (B5) 202 - Elevation A.dwg |
| D (T3) 200 - Elevation A.dwg | D (B5) 202 - Elevation B.dwg |
|                              | D (B5) 202 - Elevation G.dwg |
- INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight Block 5
- |            |                          |
|------------|--------------------------|
| D (B5) 100 | D (B5) 202 - Elevation A |
| D (B5) 101 | D (B5) 202 - Elevation E |
| D (B5) 102 | D (B5) 202 - Elevation G |
| D (B5) 103 | D (B5) 202 - Elevation G |
| D (B5) 104 |                          |

**AVISON YOUNG**

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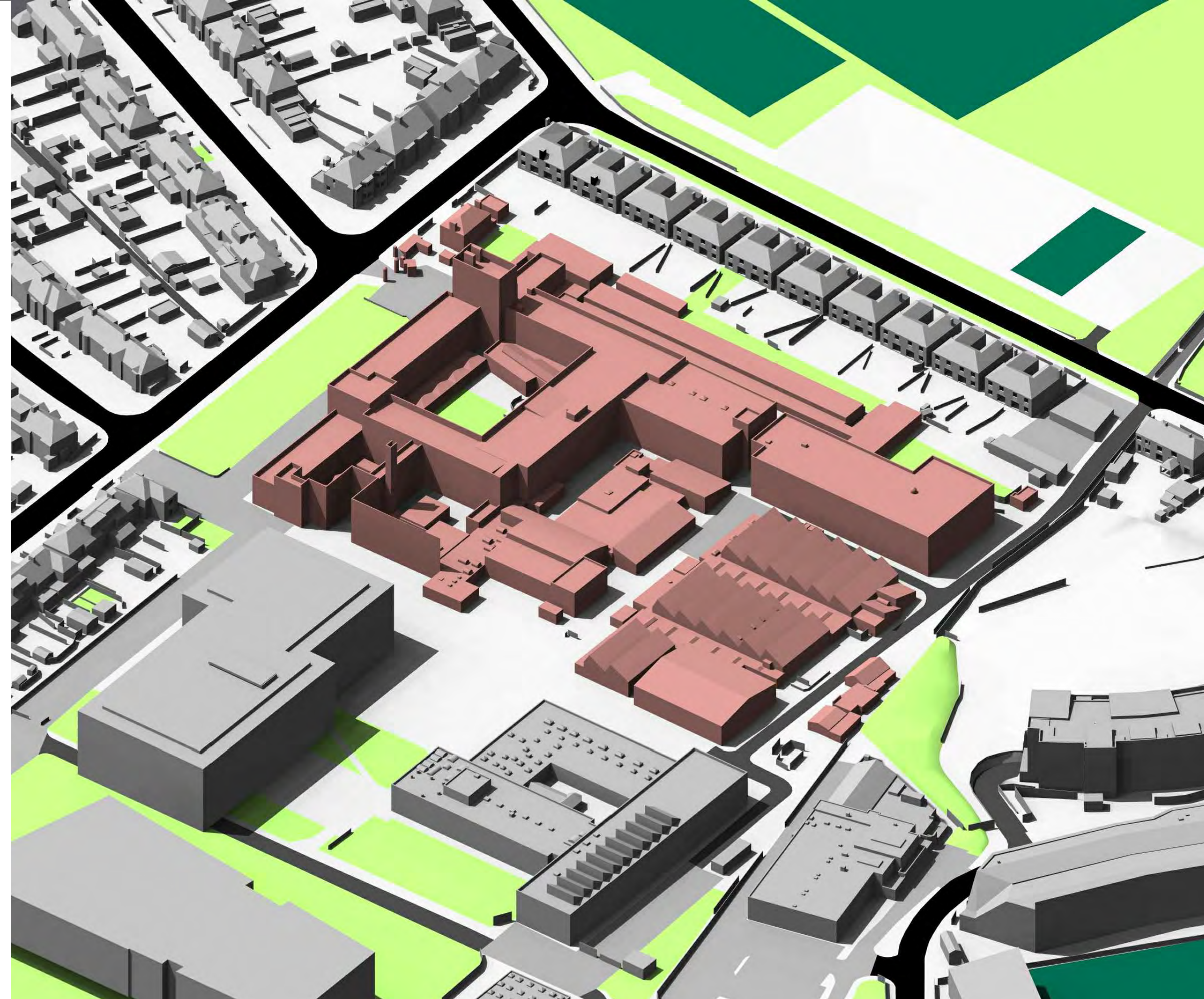
Project Name  
 RICHMOND COLLEGE TWICKENHAM

Client  
 CLARION HOUSING GROUP

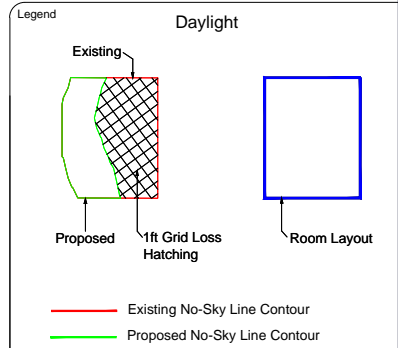
Drawing Title  
 PLAN VIEW  
 EXISTING CONDITION

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/55	Revision -
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- Sources of Information**
- EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- RESEARCH-COLLEGE BUILDINGS TO THE NORTH**
- PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05
- INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings
- INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments
- INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg
- INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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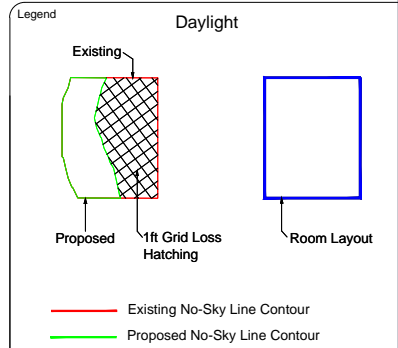
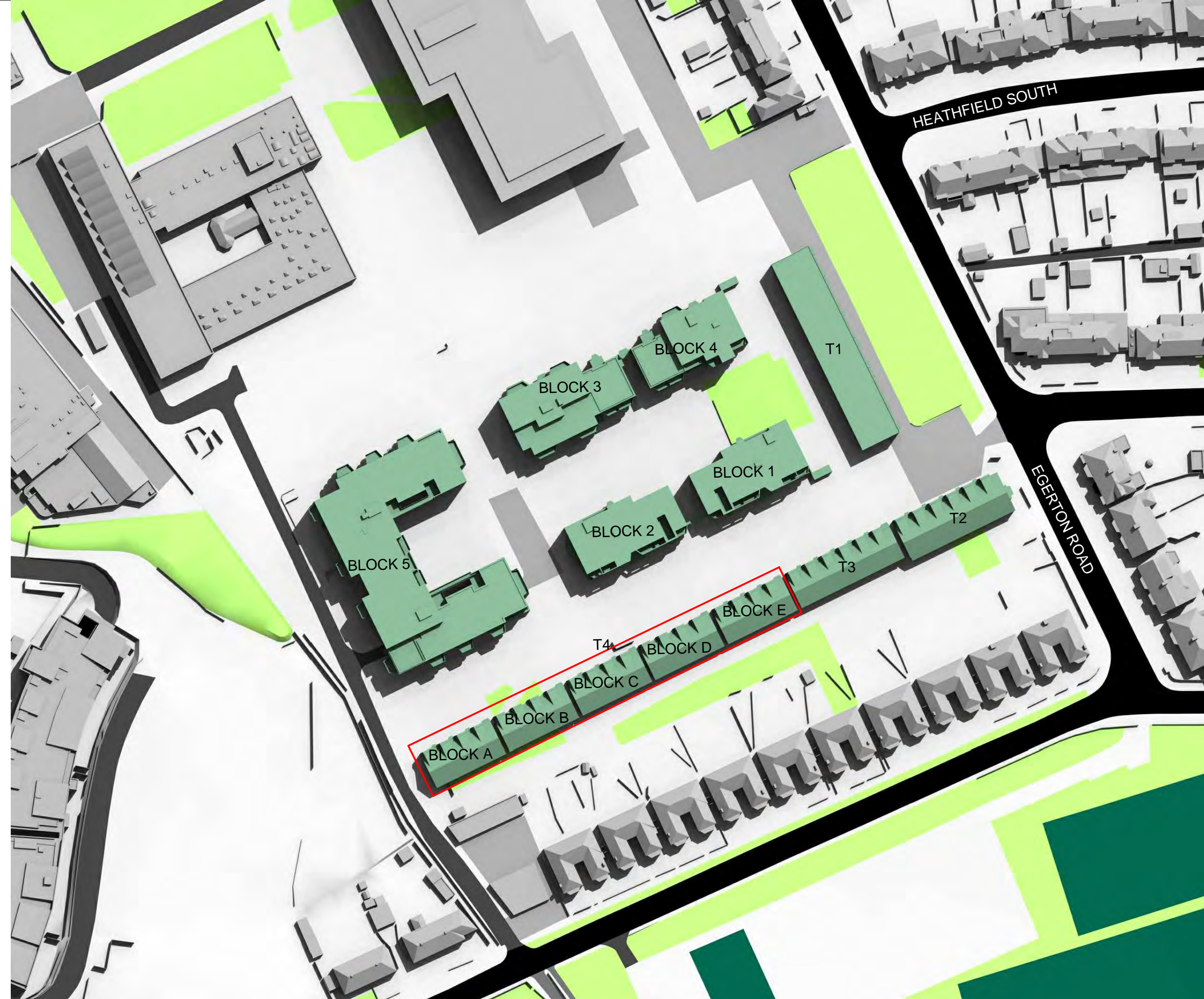
**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 3D VIEW  
 EXISTING CONDITION

<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 25 FEB 2019
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<b>Project No.</b> RI37/05	<b>Drawing No.</b> BRE/56	<b>Revision</b> -
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- Sources of Information**
- EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- RESEARCH-COLLEGE BUILDINGS TO THE NORTH
- PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05
- INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings
- INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments
- INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg
- INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 PLAN VIEW  
 PROPOSED CONDITION

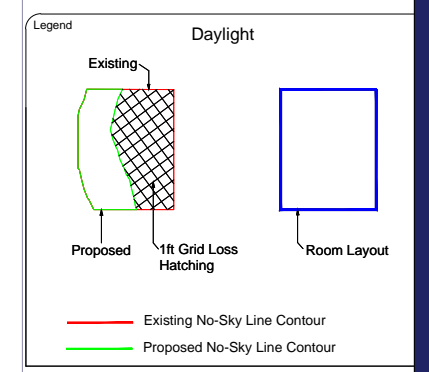
<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 25 FEB 2019
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<b>Project No.</b> RI37/05	<b>Drawing No.</b> BRE/57	<b>Revision</b> -
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GROUND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



FIRST FLOOR



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Project Name  
 RICHMOND COLLEGE  
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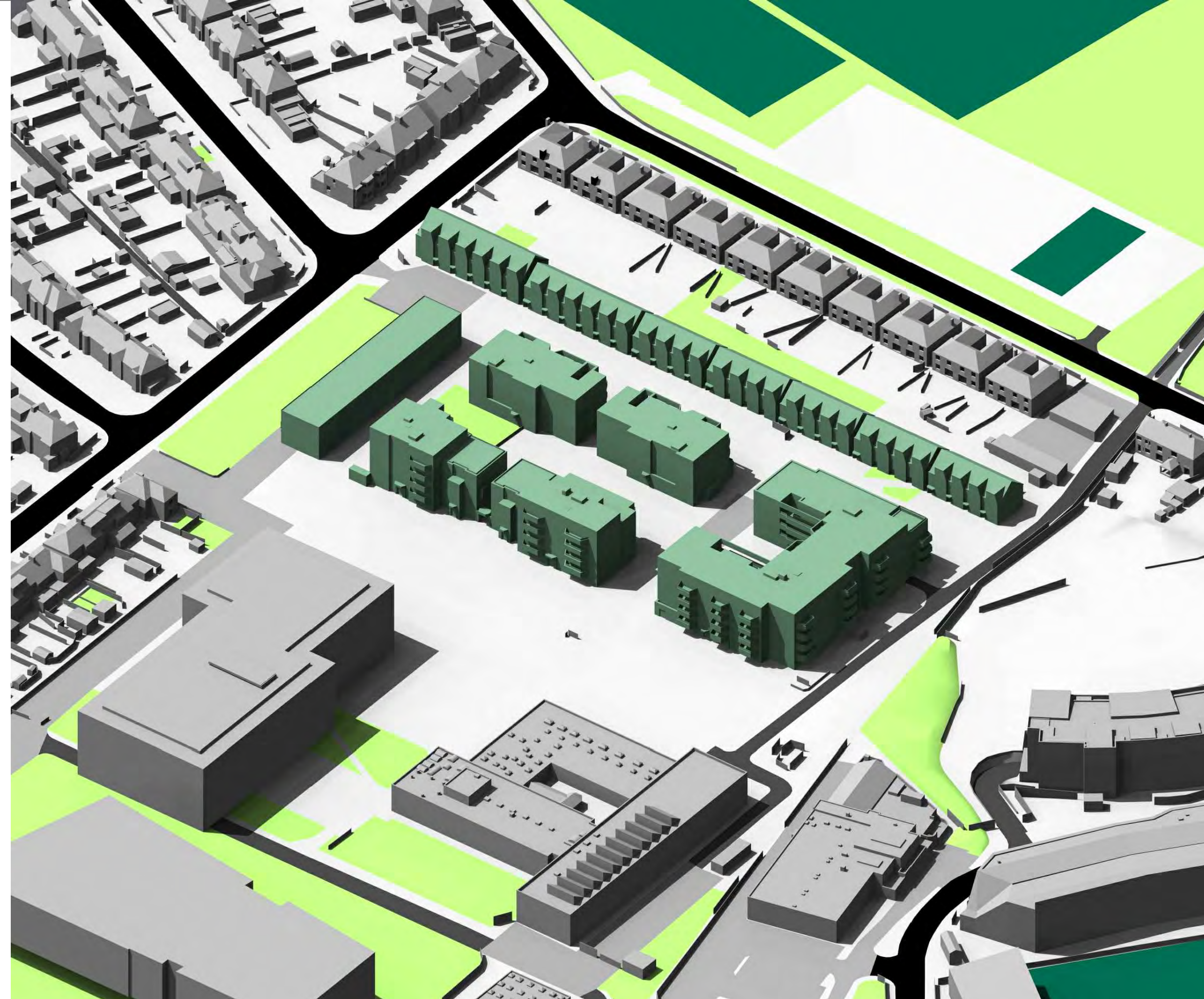
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 BLOCK 1

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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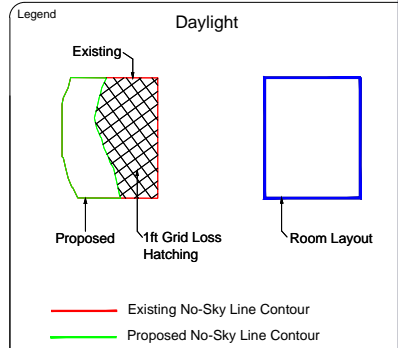
Project No. RI37/05	Drawing No. BRE/59	Revision -
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Daylight

A3



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Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**RESEARCH-COLLEGE BUILDINGS TO THE NORTH**

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
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 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 3D VIEW  
 PROPOSED CONDITION

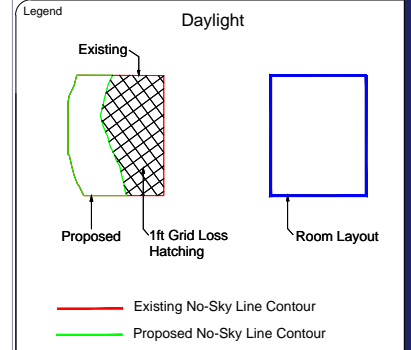
Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/58	Revision -
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SECOND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 1

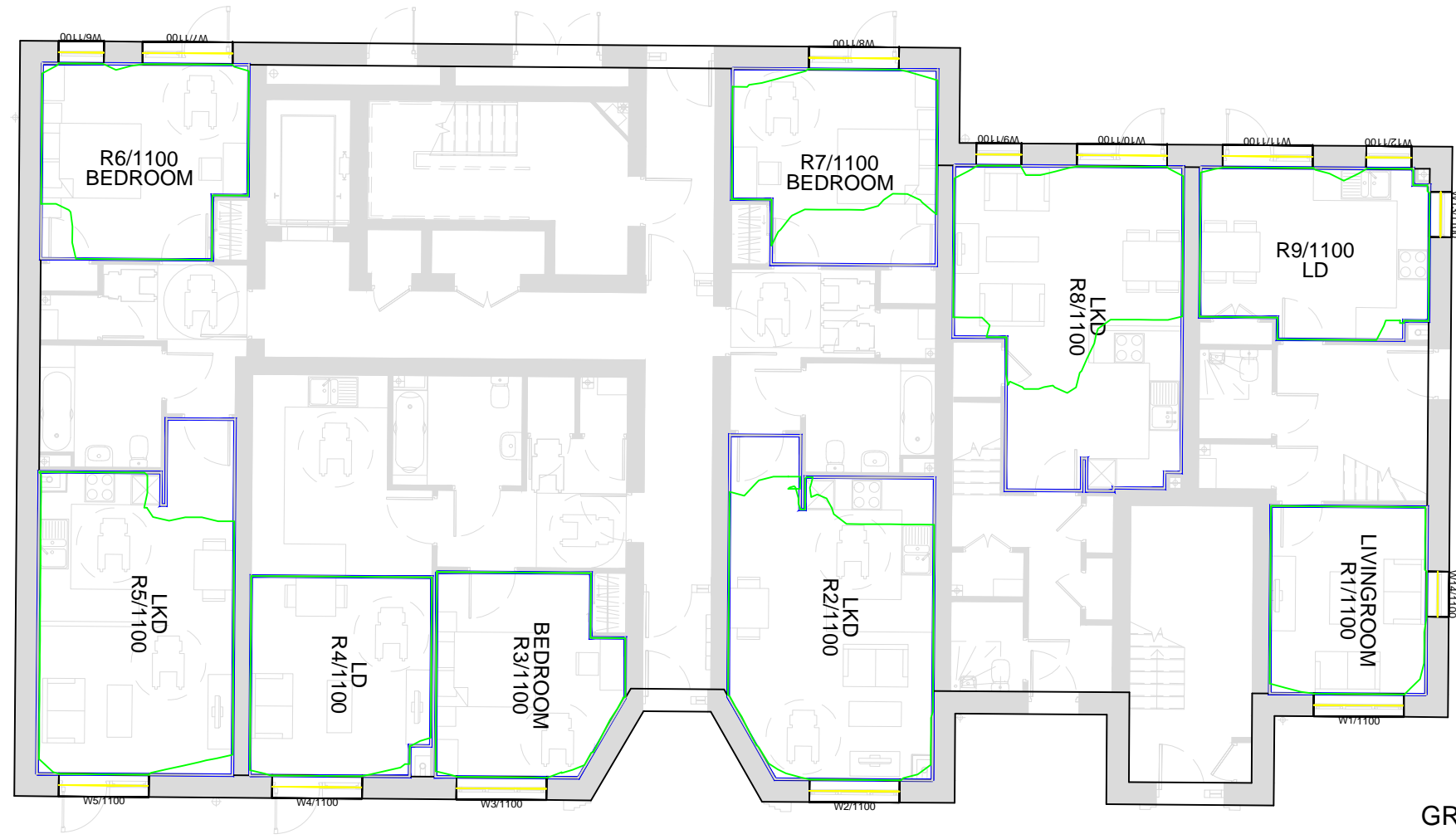
Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/60	Revision -
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THIRD FLOOR

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GROUND FLOOR



FIRST FLOOR

**Legend**

**Daylight**

Existing: [Hatched box]

Proposed: [Green outline]

1ft Grid Loss Hatching: [Hatched box]

Room Layout: [Blue outline]

Existing No-Sky Line Contour: [Red line]

Proposed No-Sky Line Contour: [Green line]

- Sources of Information**
- EXISTING BUILDING**
- INFO 13 SEPTEMBER 2018 (Architect)
  - 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**
- INFO 13 SEPTEMBER 2018 (Architect)
  - 2018-09-13 - Sunlight Daylight information (1)
  - RESEARCH-COLLEGE BUILDINGS TO THE NORTH
- PROPOSED BUILDING**
- INFO 5 NOVEMBER 2018
  - 2018-11-05 - Sunlight daylight site model
  - 18-103-BPTW-M3-SITE PLAN\_2018-11-05
  - INFO 8 NOVEMBER 2018 - ARCHITECT DWG
  - 2018-11-08 Draft Planning Drawings
  - INFO 14 NOVEMBER 2018
  - 2018-11-13 - Updated Elevations following comments
  - INFO 21 DEC 2018
  - 2018-12-18 - Sunlight Daylight amendments for review
  - D (B4) 100.dwg
  - D (B4) 101.dwg
  - D (B4) 102.dwg
  - D (B4) 103.dwg
  - D (B4) 104.dwg
  - D (B4) 200\_Elevation C.dwg
  - D (T3) 100.dwg
  - D (T3) 200 - Elevation A.dwg
  - D (B5) 100.dwg
  - D (B5) 101.dwg
  - D (B5) 102.dwg
  - D (B5) 103.dwg
  - D (B5) 104.dwg
  - D (B5) 100.dwg
  - D (B5) 101.dwg
  - D (B5) 102.dwg
  - D (B5) 103.dwg
  - D (B5) 104.dwg
  - D (B5) 202 - Elevation E.dwg
  - D (B5) 202 - Elevation A.dwg
  - D (B5) 202 - Elevation B.dwg
  - D (B5) 202 - Elevation G.dwg
  - D (B5) 202 - Elevation A
  - D (B5) 202 - Elevation E
  - D (B5) 202 - Elevation G
  - D (B5) 202 - Elevation G
- INFO 31 JANUARY 2019**
- 2019.31.01 - Sunlight Daylight
  - Block 5
  - D (B5) 100
  - D (B5) 101
  - D (B5) 102
  - D (B5) 103
  - D (B5) 104
  - D (B5) 202 - Elevation A
  - D (B5) 202 - Elevation E
  - D (B5) 202 - Elevation G
  - D (B5) 202 - Elevation G



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**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 2

<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 25 FEB 2019
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<b>Project No.</b> RI37/05	<b>Drawing No.</b> BRE/61	<b>Revision</b> -
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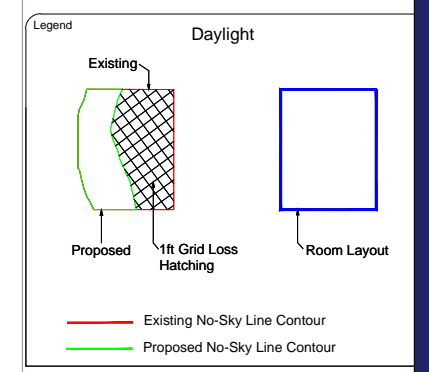
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SECOND FLOOR



THIRD FLOOR



**Sources of Information**

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

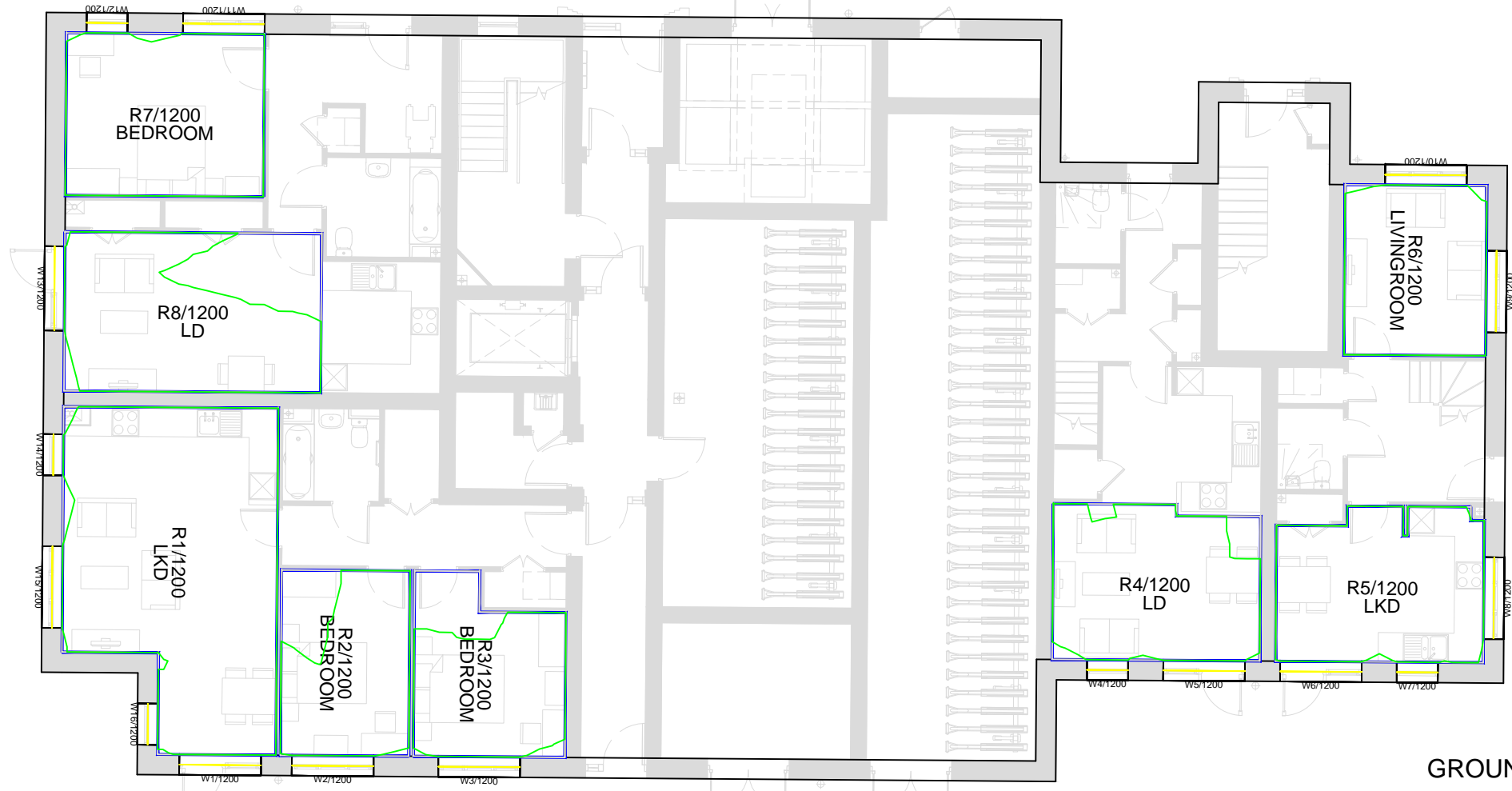
**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 2

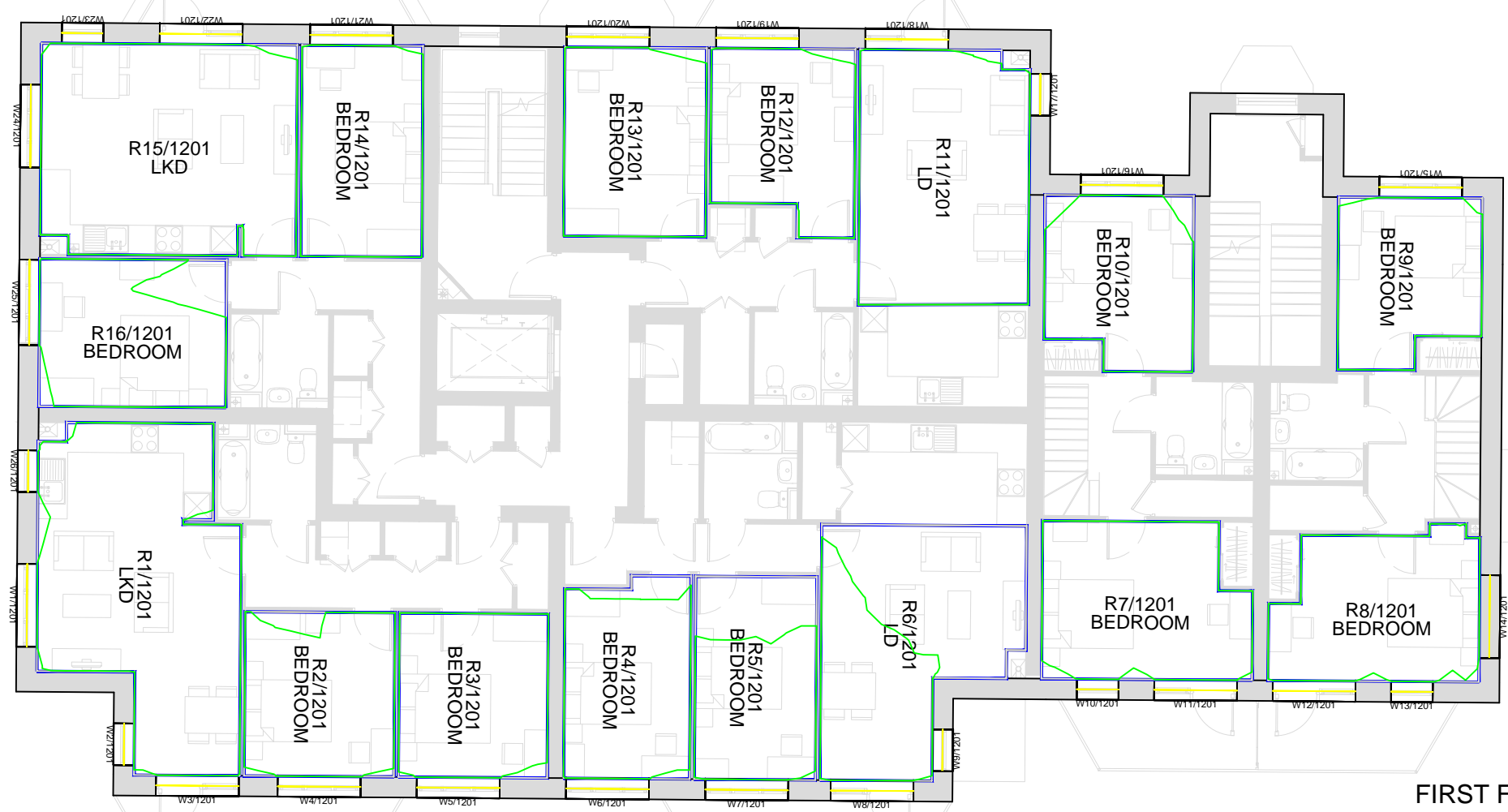
<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 25 FEB 2019
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<b>Project No.</b> RI37/05	<b>Drawing No.</b> BRE/62	<b>Revision</b> -
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GROUND FLOOR



FIRST FLOOR

**Legend**

**Daylight**

Existing  
Proposed  
1ft Grid Loss Hatching  
Room Layout

Existing No-Sky Line Contour  
Proposed No-Sky Line Contour

- Sources of Information**
- EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH
- PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05
- INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings
- INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments
- INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg
- INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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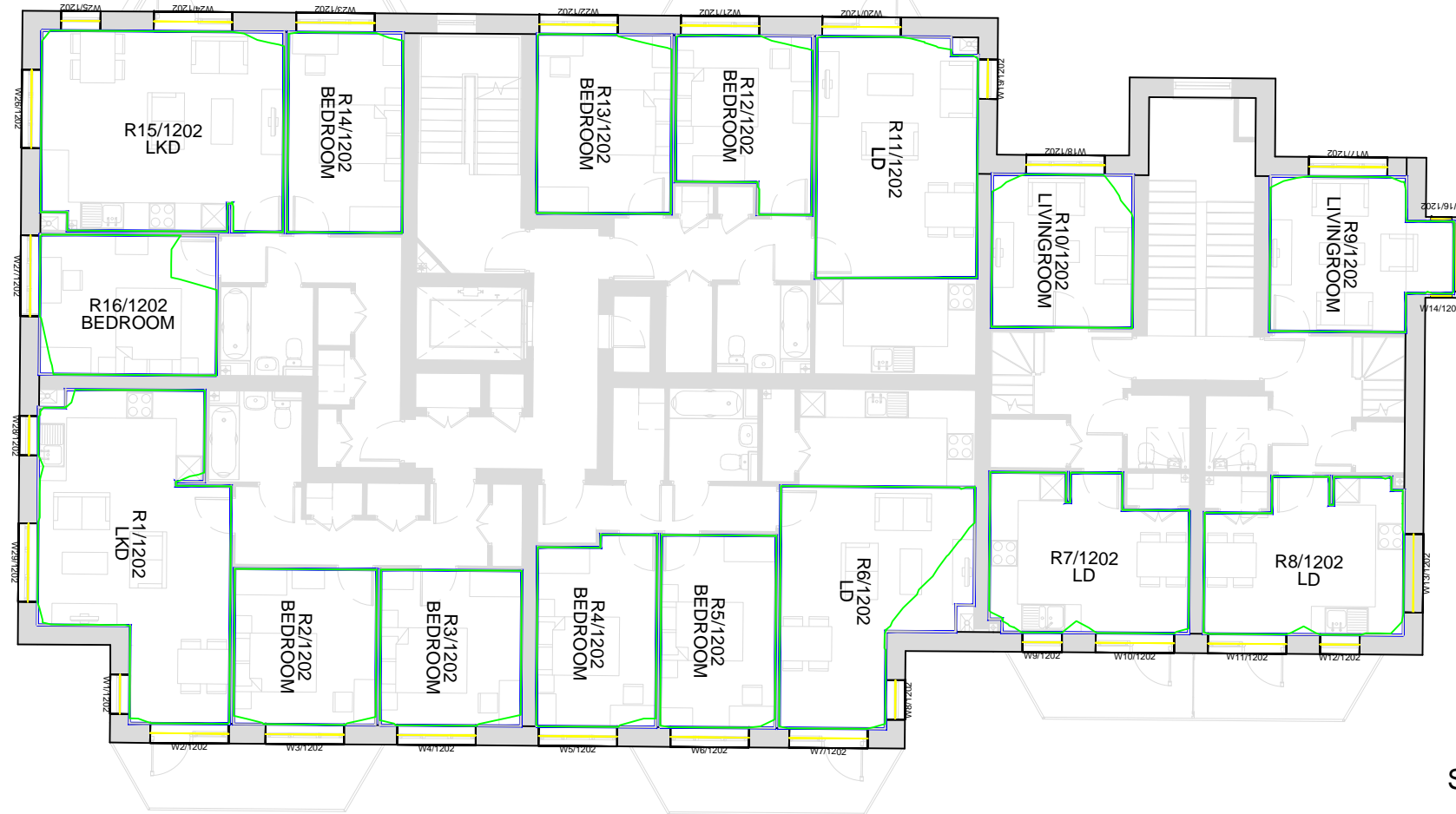
**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 3

**Drawn By** RV  
**Chk'd By** -  
**Scale @ A3** NTS  
**Date** 25 FEB 2019

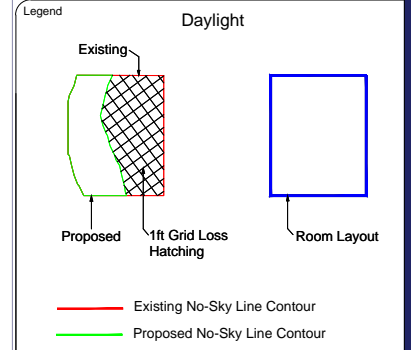
**Project No.** RI37/05  
**Drawing No.** BRE/63  
**Revision** -



SECOND FLOOR



THIRD FLOOR



- Sources of Information
- EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- RESEARCH-COLLEGE BUILDINGS TO THE NORTH
- PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05
- INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings
- INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments
- INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg
- INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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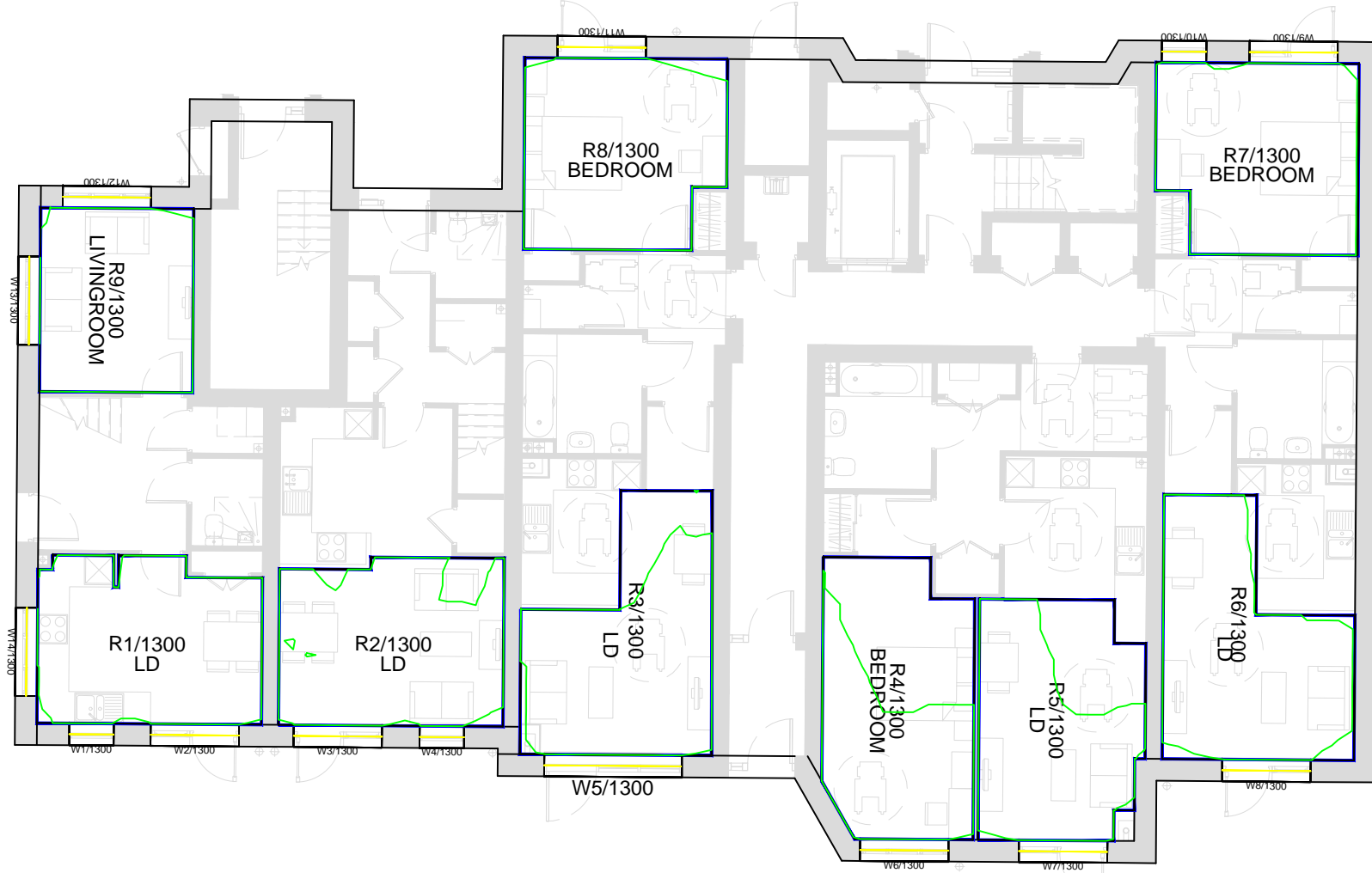
Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

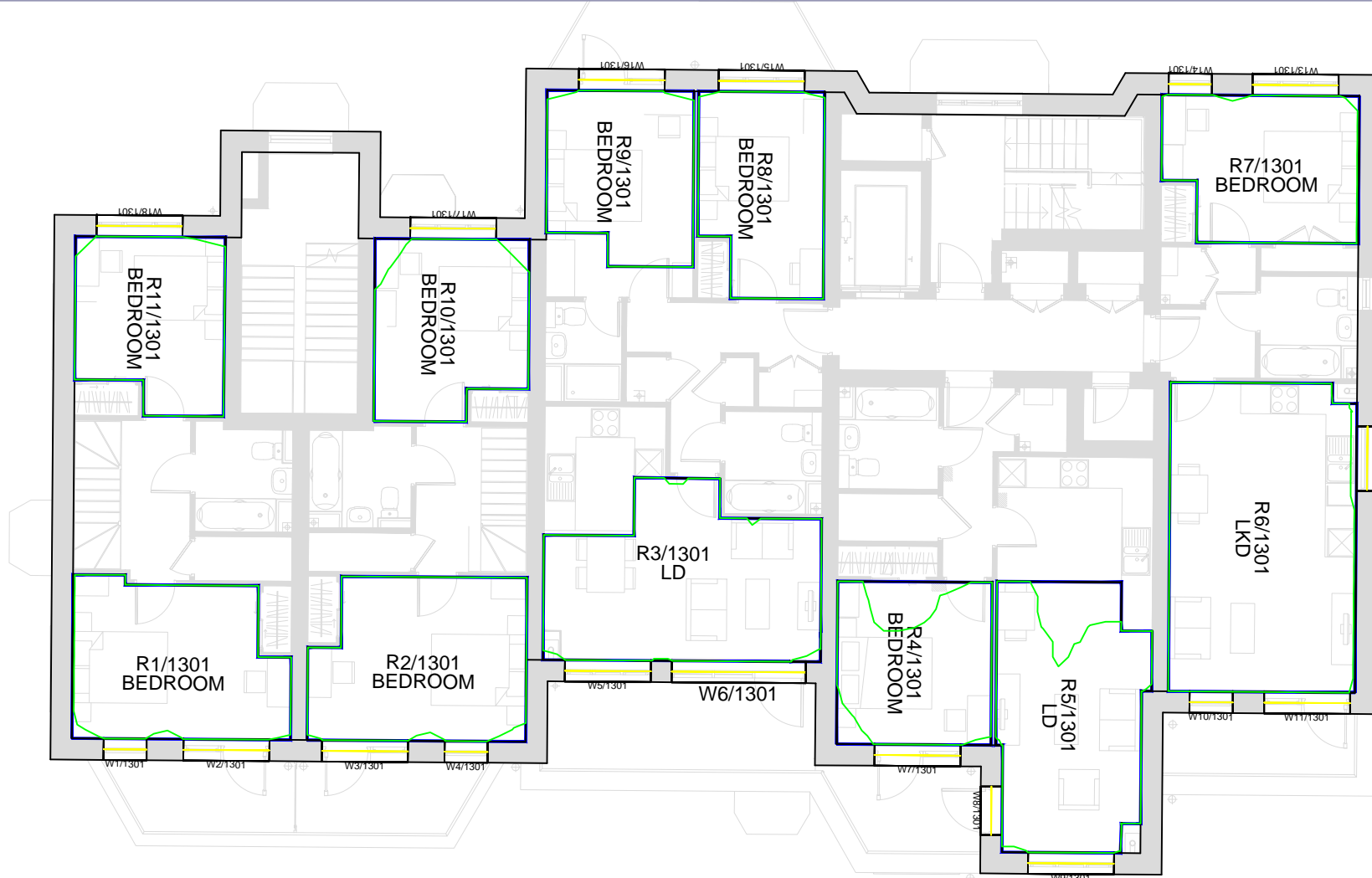
Drawing Title  
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 BLOCK 3

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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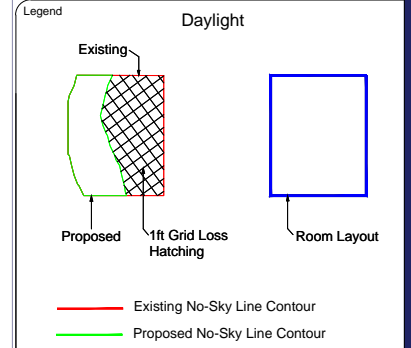
Project No. RI37/05	Drawing No. BRE/64	Revision -
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GROUND FLOOR



FIRST FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

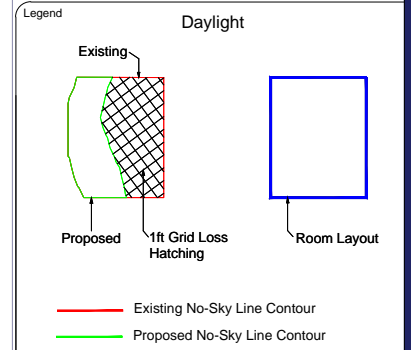
Drawing Title  
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 BLOCK 4

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. R137/05	Drawing No. BRE/65	Revision -
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SECOND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

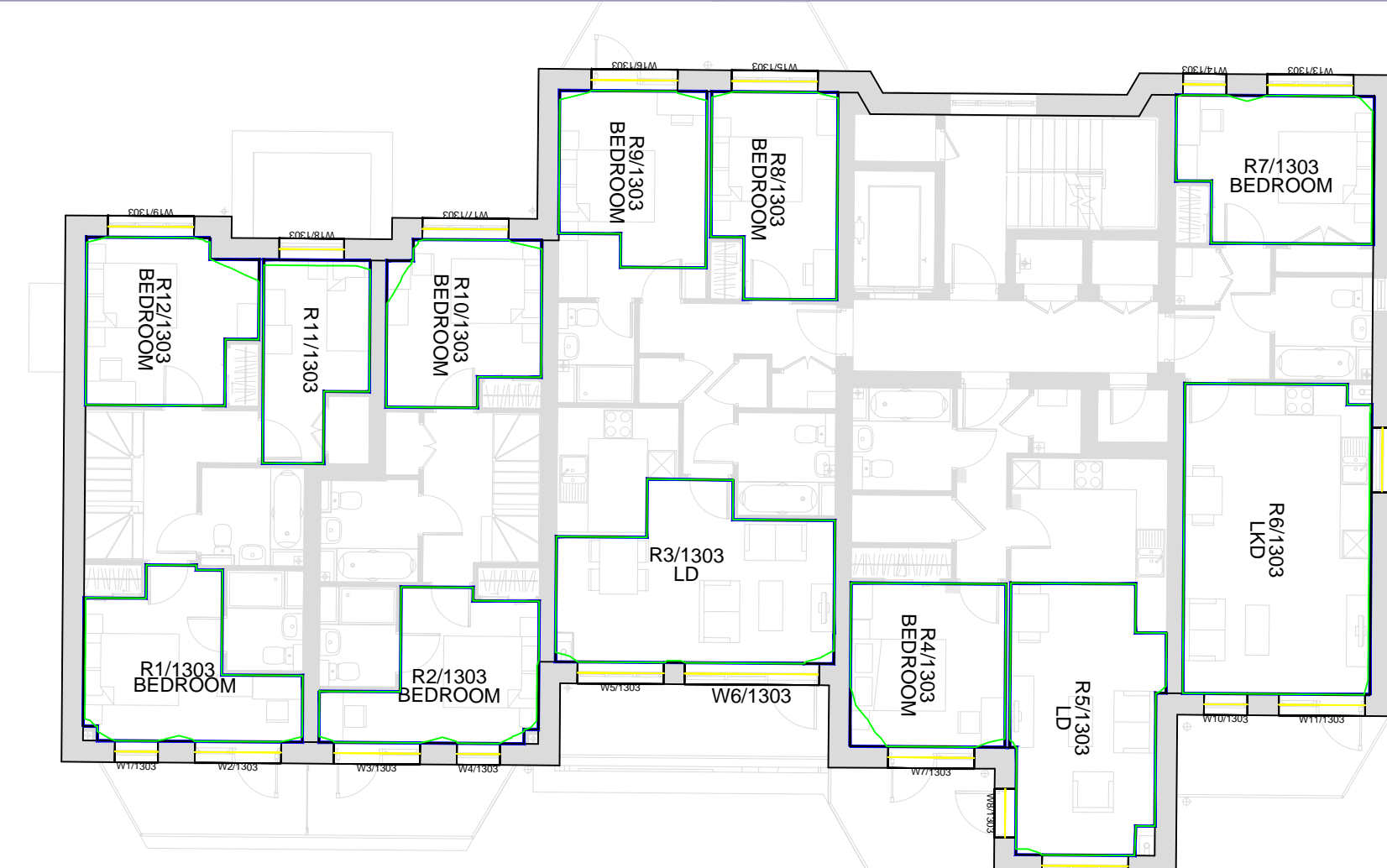
**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



THIRD FLOOR



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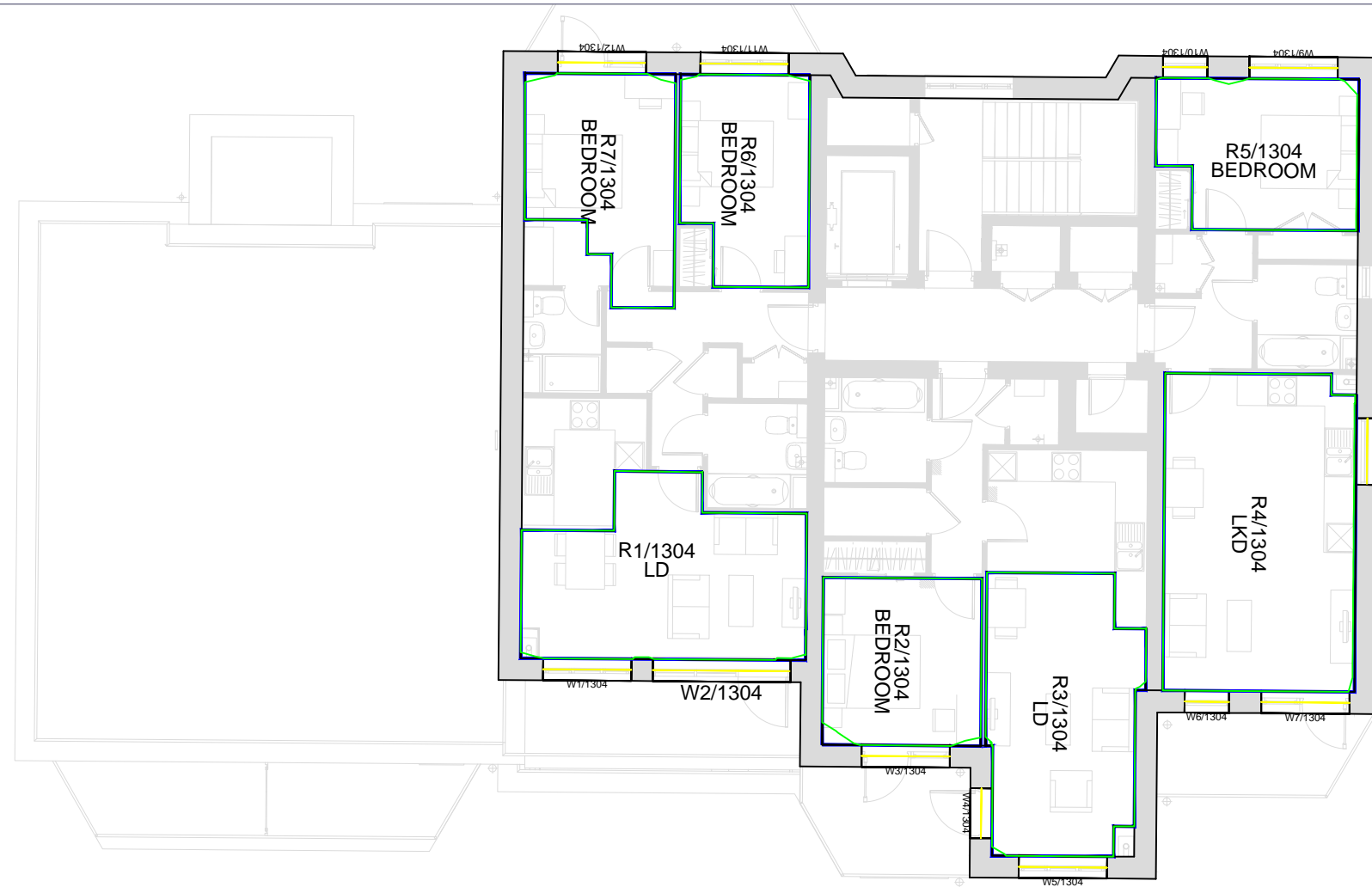
Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 4

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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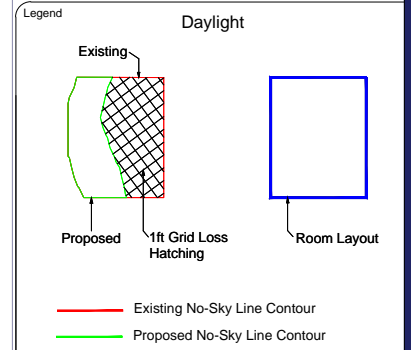
Project No. R137/05	Drawing No. BRE/66	Revision -
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FOURTH FLOOR

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Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
2018-09-13 - Sunlight Daylight information (1)  
RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
2018-11-05 - Sunlight daylight site model  
18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
2018-12-18 - Sunlight Daylight amendments for review

D (B4) 100.dwg	D (B5) 100.dwg
D (B4) 101.dwg	D (B5) 101.dwg
D (B4) 102.dwg	D (B5) 102.dwg
D (B4) 103.dwg	D (B5) 103.dwg
D (B4) 104.dwg	D (B5) 104.dwg
D (B4) 200_Elevation C.dwg	D (B5) 202 - Elevation E.dwg
D (T3) 100.dwg	D (B5) 202 - Elevation A.dwg
D (T3) 200 - Elevation A.dwg	D (B5) 202 - Elevation B.dwg
	D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
2019.31.01 - Sunlight Daylight  
Block 5

D (B5) 100	D (B5) 202 - Elevation A
D (B5) 101	D (B5) 202 - Elevation E
D (B5) 102	D (B5) 202 - Elevation G
D (B5) 103	D (B5) 202 - Elevation G
D (B5) 104	



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Project Name  
RICHMOND COLLEGE  
TWICKENHAM

Client  
CLARION HOUSING GROUP

Drawing Title  
NO SKY-LINE CONTOURS FOR  
BLOCK 4

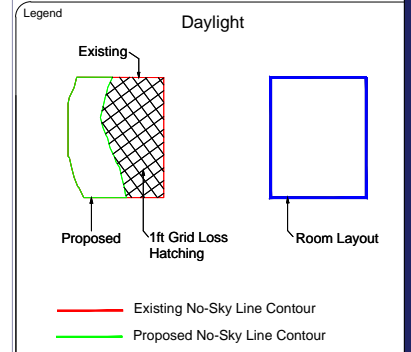
Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/67	Revision -
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GROUND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

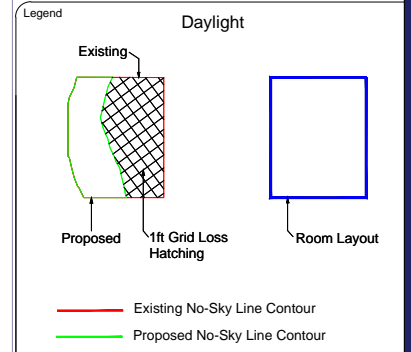
Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 5

Drawn By: RV  
 Chk'd By: -  
 Scale @ A3: NTS  
 Date: 25 FEB 2019

Project No.: RI37/05  
 Drawing No.: BRE/68  
 Revision: -



FIRST FLOOR



- Sources of Information
- EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)
- RESEARCH-COLLEGE BUILDINGS TO THE NORTH
- PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05
- INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings
- INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments
- INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg
- INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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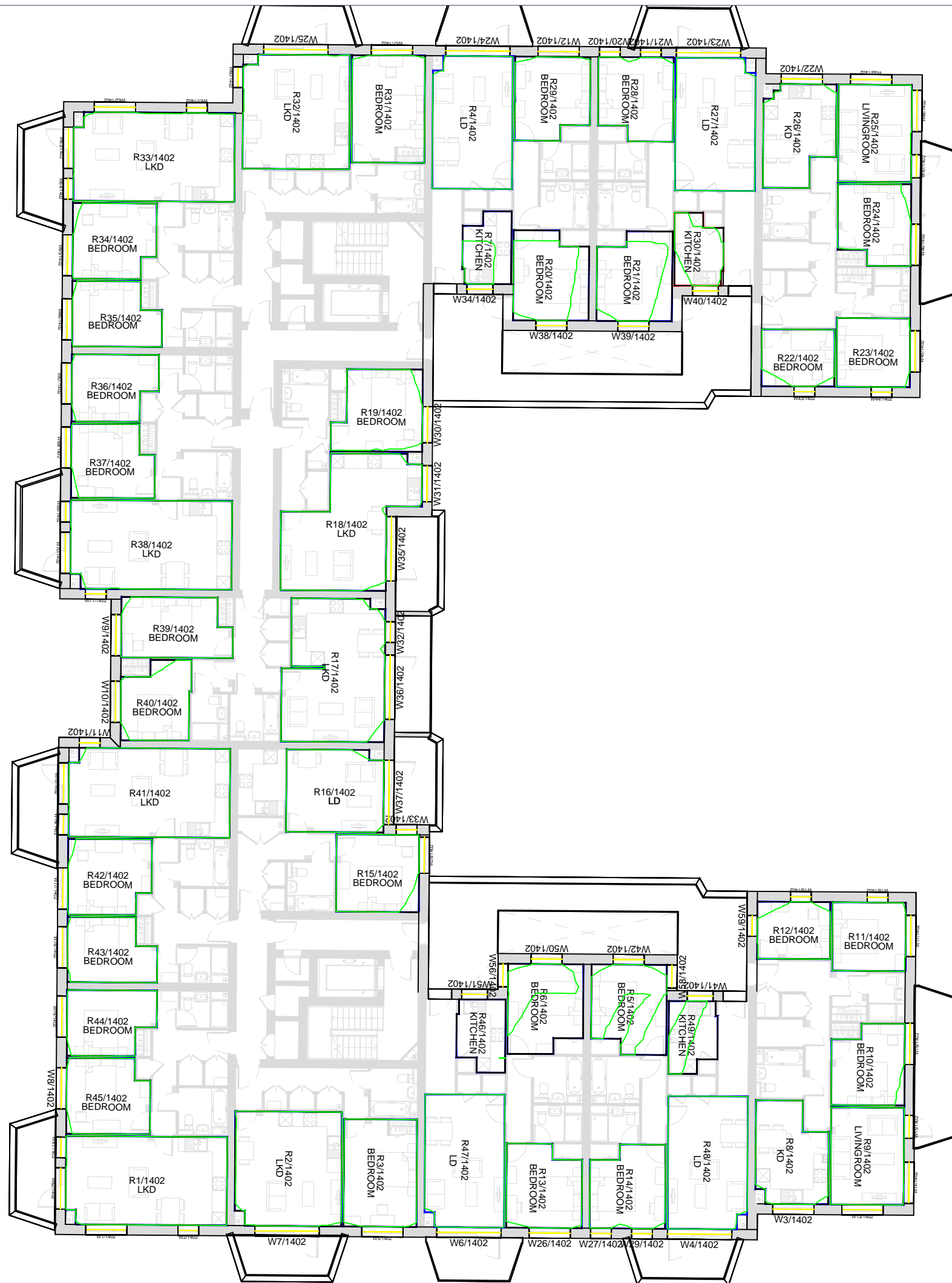
Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

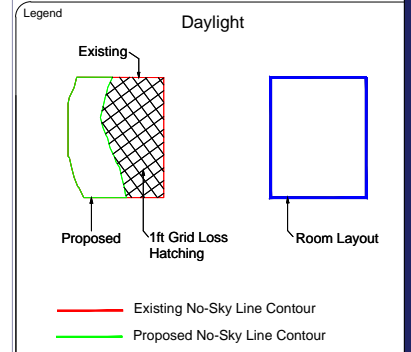
Drawing Title  
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 BLOCK 5

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/69	Revision -
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SECOND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05  
**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings  
**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 BLOCK 5

Drawn By  
 RV

Chk'd By  
 -

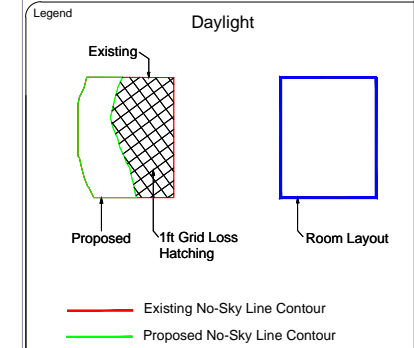
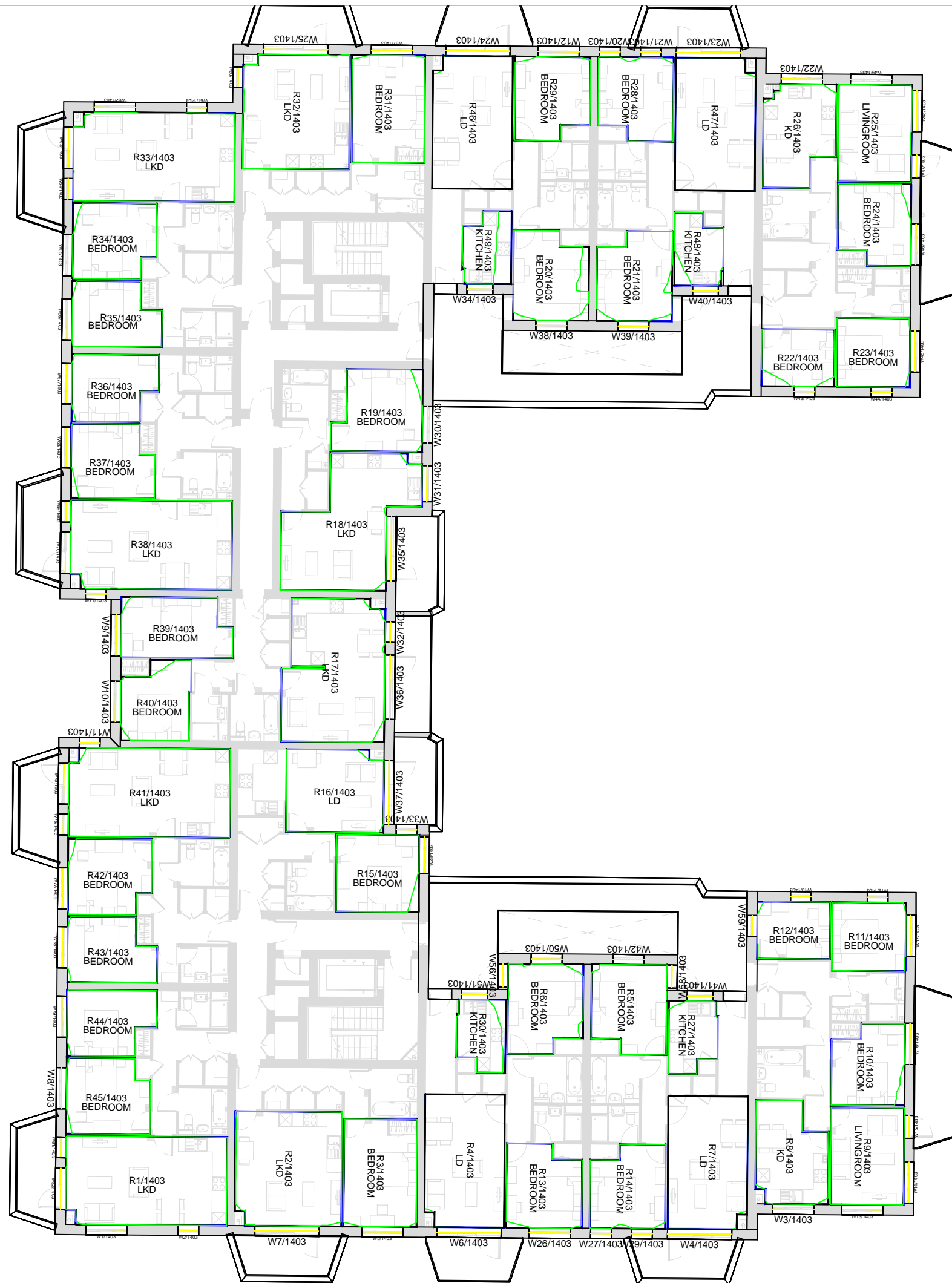
Scale @ A3  
 NTS

Date  
 25 FEB 2019

Project No.  
 RI37/05

Drawing No.  
 BRE/70

Revision  
 -



**Sources of Information**

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5  
 D (B5) 100 D (B5) 202 - Elevation A  
 D (B5) 101 D (B5) 202 - Elevation E  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

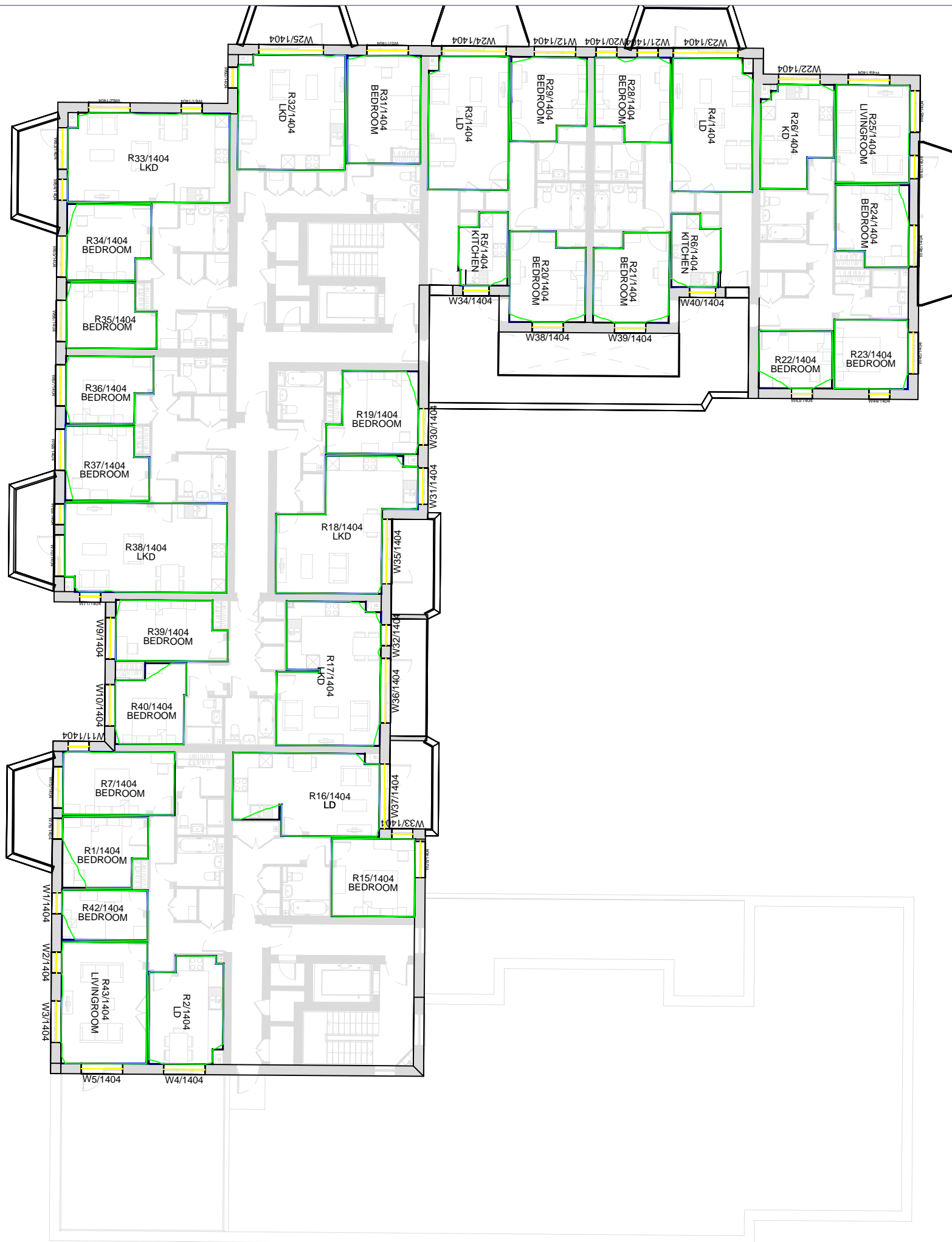
**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
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 BLOCK 5

<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 25 FEB 2019
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<b>Project No.</b> RI37/05	<b>Drawing No.</b> BRE/71	<b>Revision</b> -
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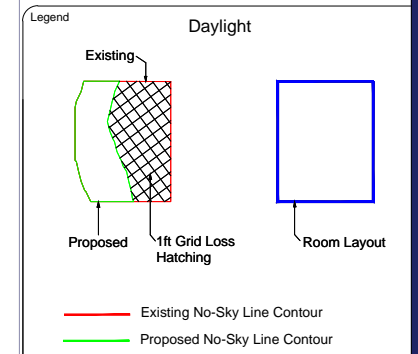
THIRD FLOOR



FOURTH FLOOR

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Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05  
**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings  
**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
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Client  
 CLARION HOUSING GROUP

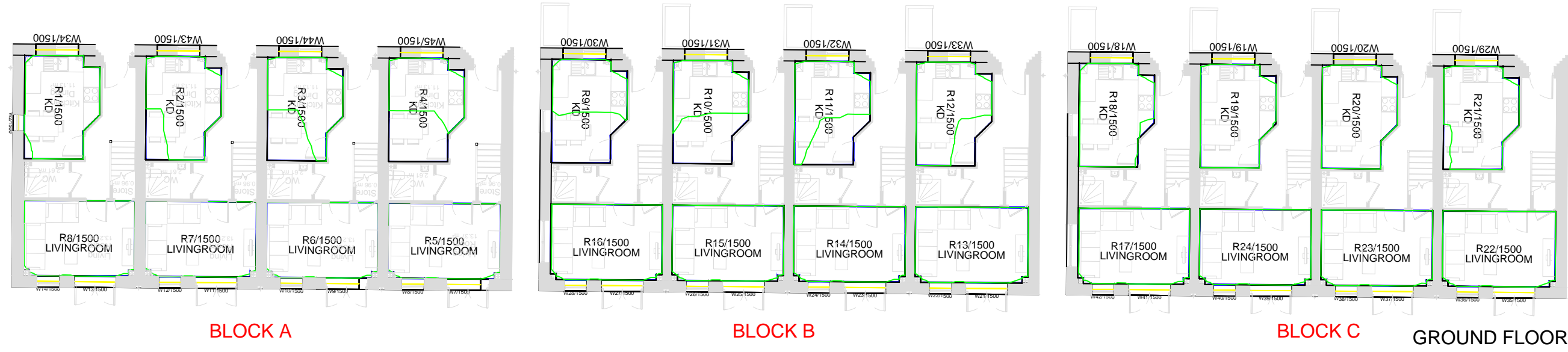
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 NO SKY-LINE CONTOURS FOR  
 BLOCK 5

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/72	Revision -
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Daylight

A3

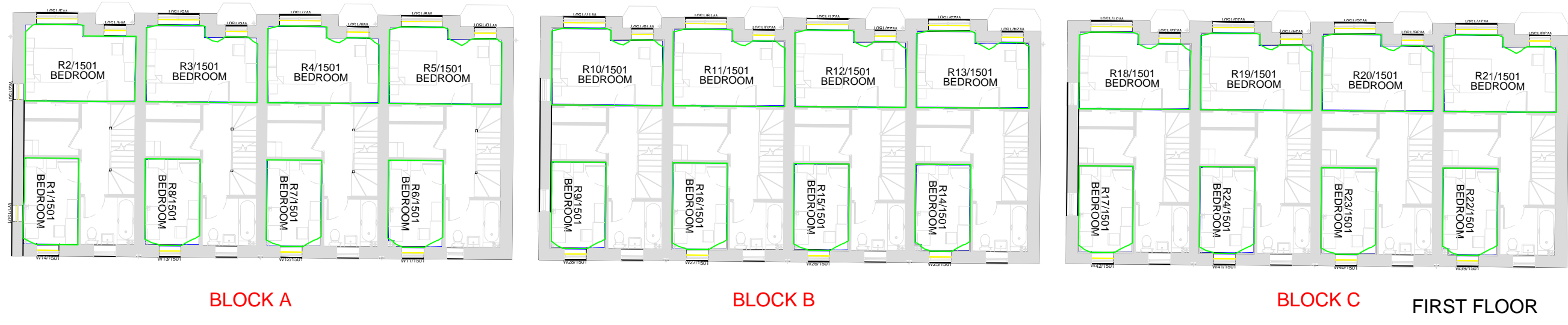
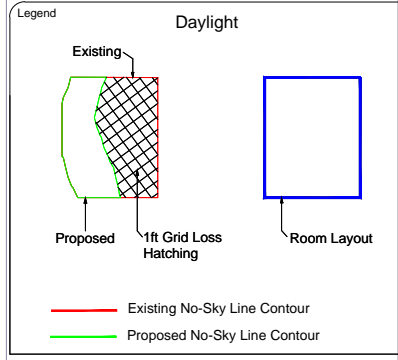


BLOCK A

BLOCK B

BLOCK C

GROUND FLOOR

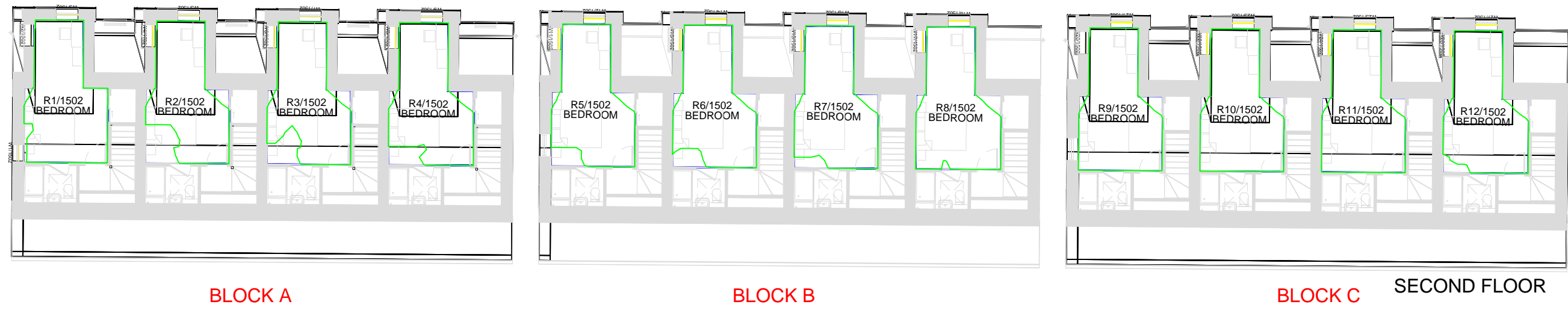


BLOCK A

BLOCK B

BLOCK C

FIRST FLOOR



BLOCK A

BLOCK B

BLOCK C

SECOND FLOOR

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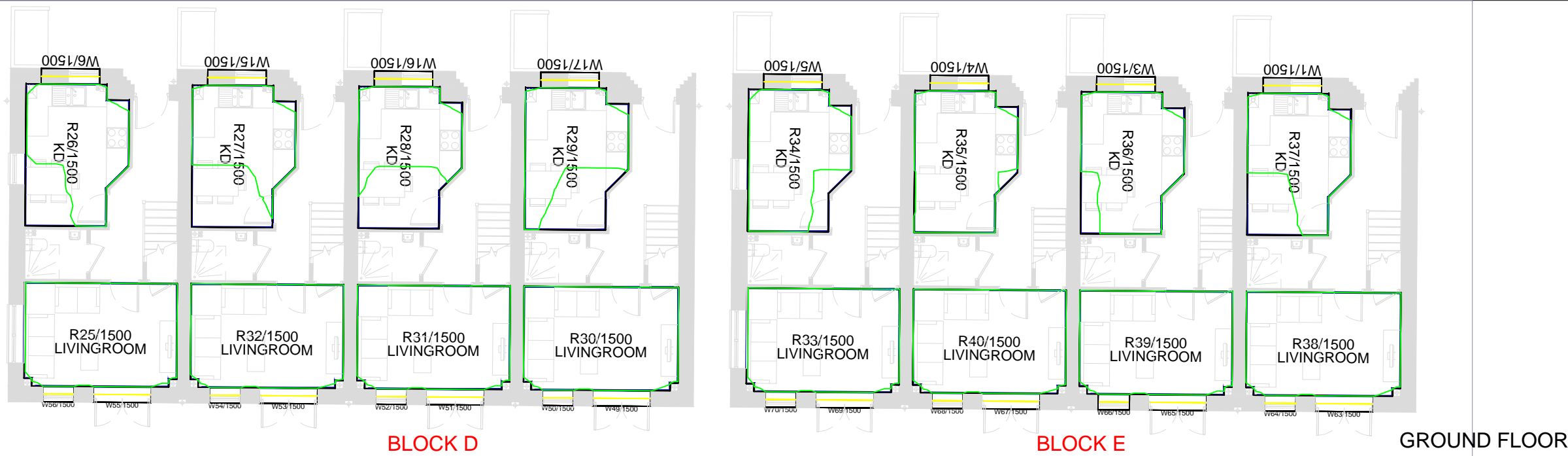
Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 T4 - BLOCK A, B & C

Drawn By: RV  
 Chk'd By: -  
 Scale: A3  
 Date: 25 FEB 2019

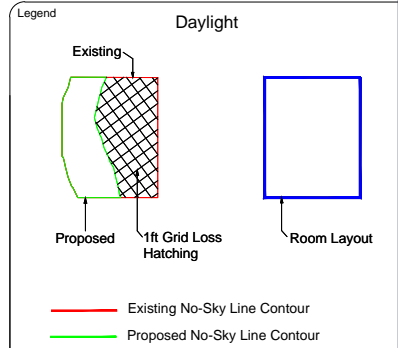
Project No.: RI37/05  
 Drawing No.: BRE/73  
 Revision: -



BLOCK D

BLOCK E

GROUND FLOOR



**SOURCES OF INFORMATION**  
**EXISTING BUILDING**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
 INFO 13 SEPTEMBER 2018 (Architect)  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
 INFO 5 NOVEMBER 2018  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05  
 INFO 8 NOVEMBER 2018 - ARCHITECT DWG  
 2018-11-08 Draft Planning Drawings  
 INFO 14 NOVEMBER 2018  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 103  
 D (B5) 104



BLOCK D

BLOCK E

FIRST FLOOR



BLOCK D

BLOCK E

SECOND FLOOR

**AVISON YOUNG**  
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**Project Name**  
 RICHMOND COLLEGE  
 TWICKENHAM

**Client**  
 CLARION HOUSING GROUP

**Drawing Title**  
 NO SKY-LINE CONTOURS FOR  
 T4 - BLOCK D & E

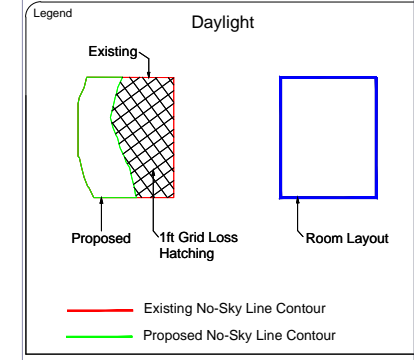
<b>Drawn By</b> RV	<b>Chk'd By</b> -	<b>Scale @ A3</b> NTS	<b>Date</b> 25 FEB 2019
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<b>Project No.</b> R137/05	<b>Drawing No.</b> BRE/74	<b>Revision</b> -
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GROUND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

RESEARCH-COLLEGE BUILDINGS TO THE NORTH

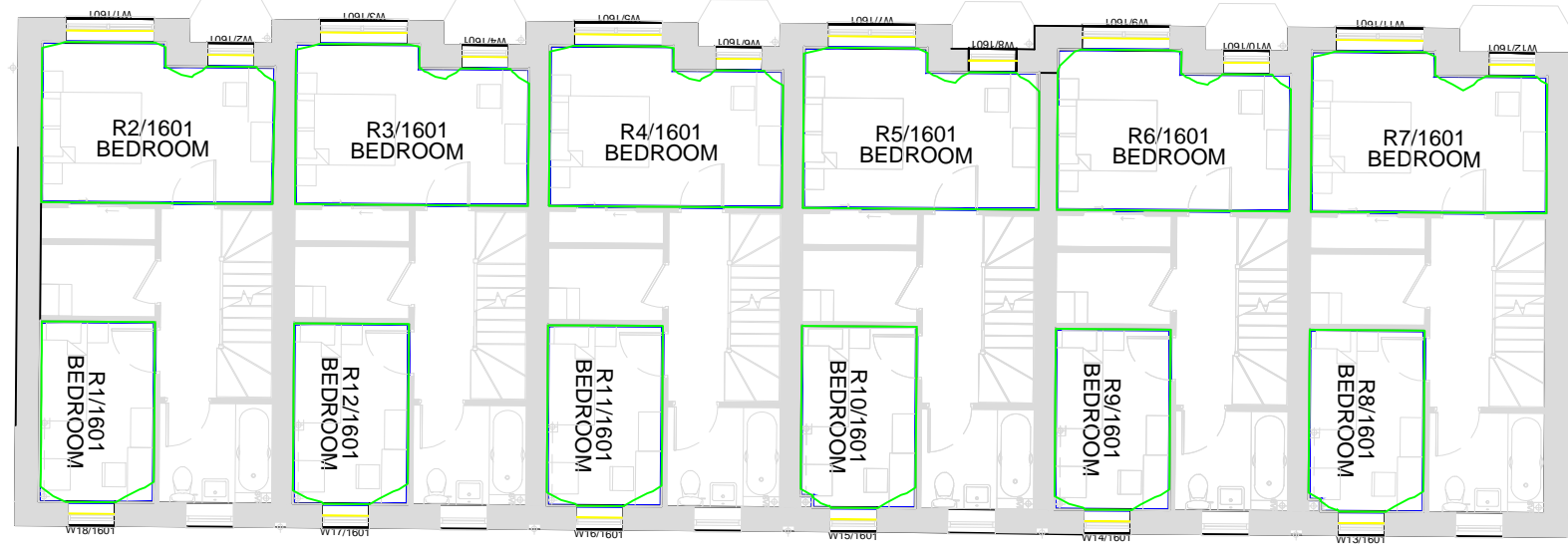
**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05

**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings

**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



FIRST FLOOR



SECOND FLOOR



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 T3

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 25 FEB 2019
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Project No. RI37/05	Drawing No. BRE/75	Revision -
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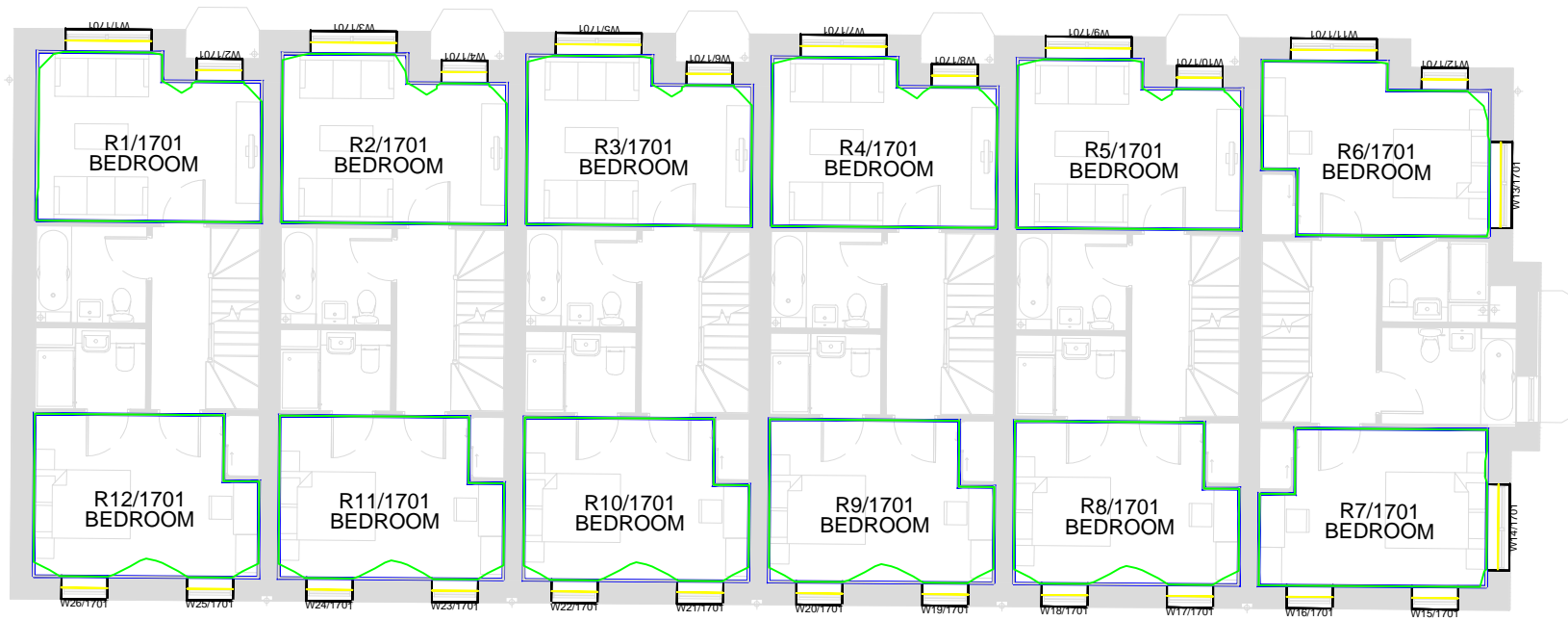
Daylight

A3

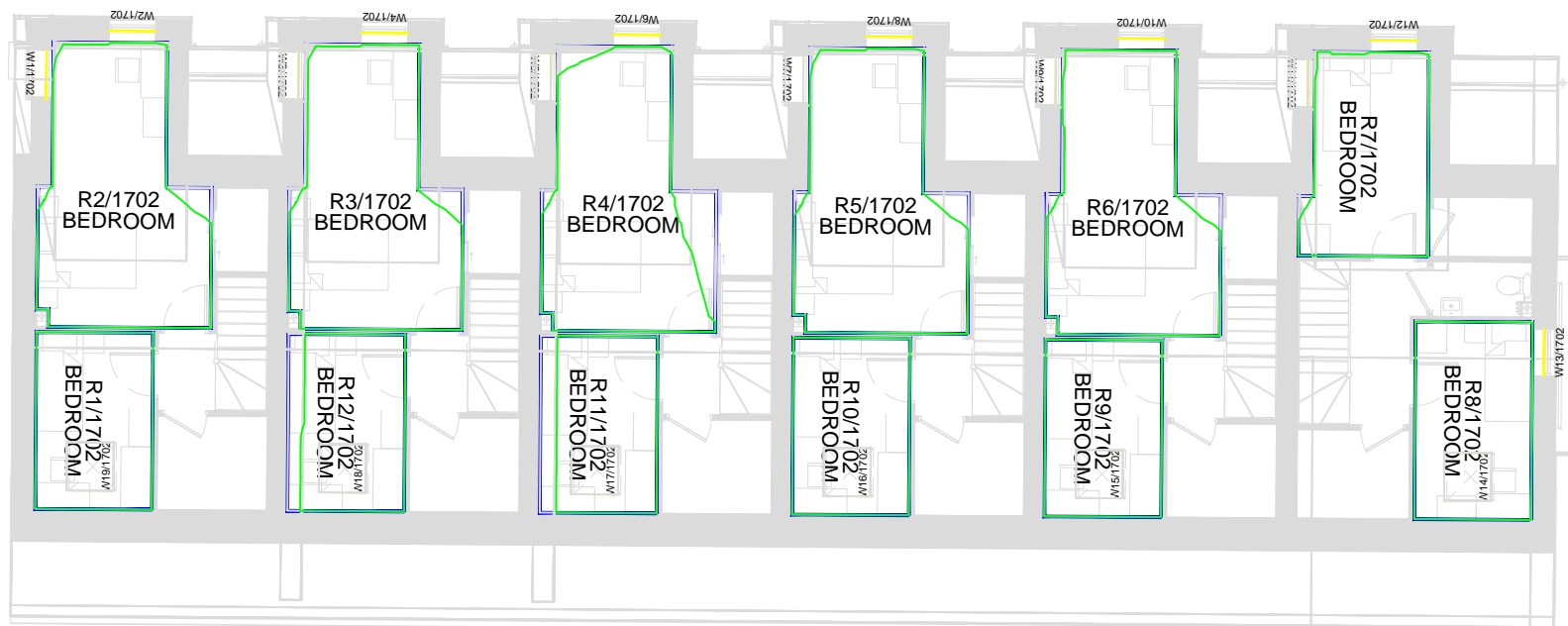




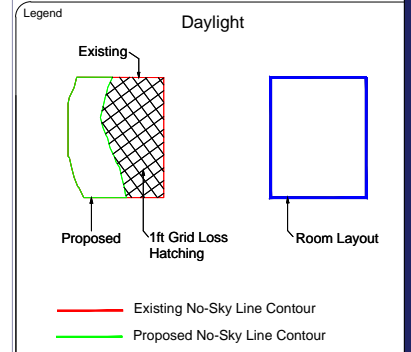
GROUND FLOOR



FIRST FLOOR



SECOND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05  
**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings  
**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments

**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (T3) 200 - Elevation A.dwg D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg

**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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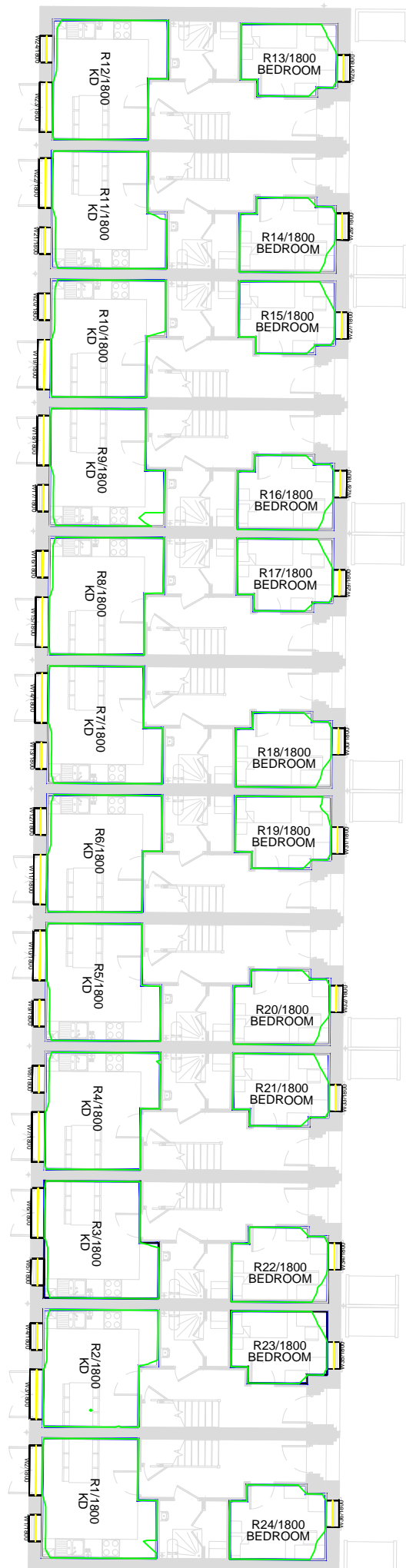
Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

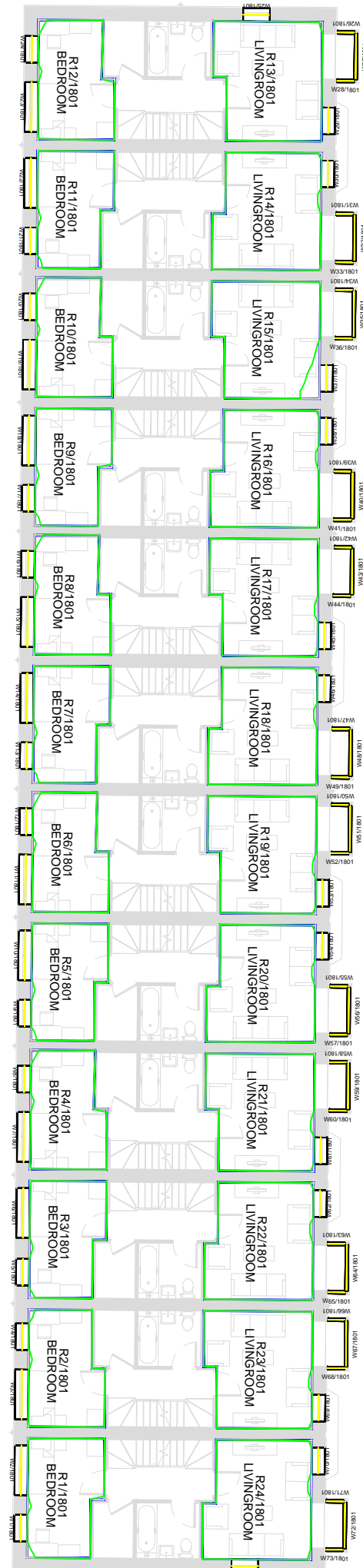
Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 T2

Drawn By  
 RV  
 Chk'd By  
 -  
 Scale @ A3  
 NTS  
 Date  
 25 FEB 2019

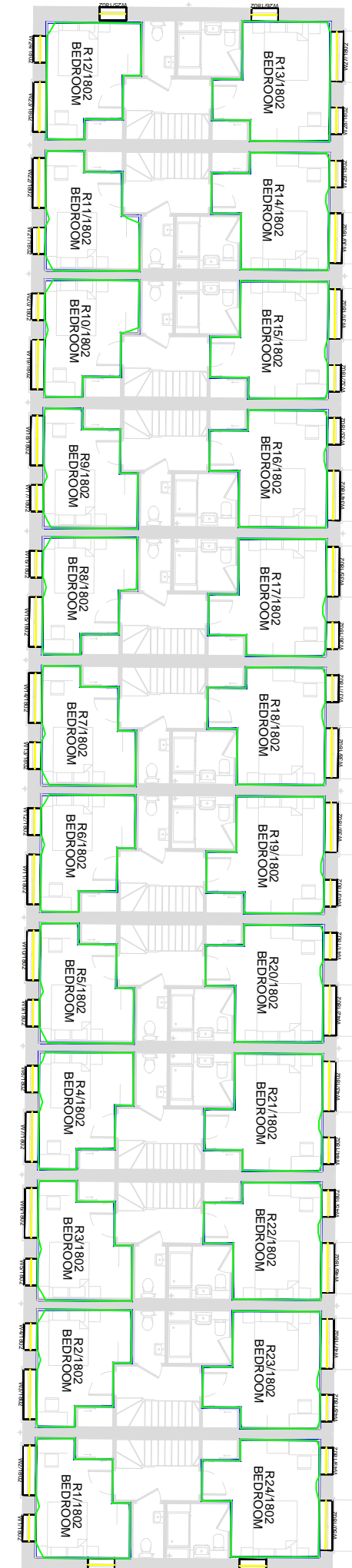
Project No.  
 RI37/05  
 Drawing No.  
 BRE/76  
 Revision  
 -



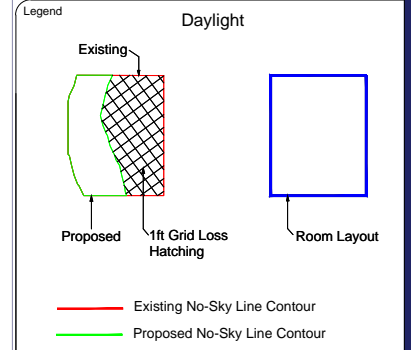
GROUND FLOOR



FIRST FLOOR



SECOND FLOOR



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05  
**INFO 8 NOVEMBER 2018 - ARCHITECT DWG**  
 2018-11-08 Draft Planning Drawings  
**INFO 14 NOVEMBER 2018**  
 2018-11-13 - Updated Elevations following comments  
**INFO 21 DEC 2018**  
 2018-12-18 - Sunlight Daylight amendments for review  
 D (B4) 100.dwg D (B5) 100.dwg  
 D (B4) 101.dwg D (B5) 101.dwg  
 D (B4) 102.dwg D (B5) 102.dwg  
 D (B4) 103.dwg D (B5) 103.dwg  
 D (B4) 104.dwg D (B5) 104.dwg  
 D (B4) 200\_Elevation C.dwg D (B5) 202 - Elevation E.dwg  
 D (T3) 100.dwg D (B5) 202 - Elevation A.dwg  
 D (B5) 202 - Elevation B.dwg  
 D (B5) 202 - Elevation G.dwg  
**INFO 31 JANUARY 2019**  
 2019.31.01 - Sunlight Daylight  
 Block 5 D (B5) 202 - Elevation A  
 D (B5) 100 D (B5) 202 - Elevation E  
 D (B5) 101 D (B5) 202 - Elevation G  
 D (B5) 102 D (B5) 202 - Elevation G  
 D (B5) 103 D (B5) 202 - Elevation G  
 D (B5) 104



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Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 NO SKY-LINE CONTOURS FOR  
 T1

Drawn By: RV  
 Chk'd By: -  
 Scale @ A3: NTS  
 Date: 25 FEB 2019

Project No.: RI37/05  
 Drawing No.: BRE/77  
 Revision: -

**RICHMOND COLLEGE - TWICKENHAM**  
**25-Feb-19**  
**JOB 05 - AMENITY RESULTS**

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
<b>BLOCK 1</b>								
<b>Gnd Floor</b>								
R1/1000	LIVINGROOM	W1/1000	5.80	1.40	97.25%	0.00	6.00	6.00
		W14/1000	9.21			4.00	0.00	4.00
R2/1000	LKD	W2/1000	30.11	1.73	88.19%	34.00	19.00	53.00
R3/1000	BEDROOM	W3/1000	29.83	2.90	98.94%	35.00	19.00	54.00
R4/1000	LD	W4/1000	30.29	3.43	98.76%	40.00	17.00	57.00
R5/1000	LKD	W5/1000	25.99	1.88	77.38%	28.00	16.00	44.00
R6/1000	BEDROOM	W6/1000	27.33	4.04	96.07%	#N/A	#N/A	#N/A
		W7/1000	26.59			#N/A	#N/A	#N/A
R7/1000	BEDROOM	W8/1000	24.96	2.79	77.95%	#N/A	#N/A	#N/A
R8/1000	LKD	W9/1000	17.73	2.27	79.34%	#N/A	#N/A	#N/A
		W10/1000	24.23			#N/A	#N/A	#N/A
R9/1000	LD	W11/1000	25.86	4.72	98.88%	3.00	0.00	3.00
		W12/1000	26.71			0.00	0.00	0.00
		W13/1000	16.14			8.00	0.00	8.00
<b>1st Floor</b>								
R1/1001	BEDROOM	W1/1001	12.05	2.66	96.90%	0.00	14.00	14.00
		W18/1001	16.58			6.00	3.00	9.00
R2/1001	BEDROOM	W2/1001	9.09	1.45	96.23%	0.00	9.00	9.00
R3/1001	LKD	W3/1001	9.88	1.61	96.65%	2.00	10.00	12.00
		W4/1001	24.05			23.00	15.00	38.00
R4/1001	LKD	W5/1001	34.97	2.30	99.54%	37.00	23.00	60.00
		W6/1001	6.41			8.00	0.00	8.00
R5/1001	BEDROOM	W7/1001	9.96	1.48	97.03%	0.00	9.00	9.00
R6/1001	LKD	W8/1001	13.89	2.07	99.63%	8.00	11.00	19.00
		W9/1001	32.36			15.00	2.00	17.00
R7/1001	BEDROOM	W10/1001	30.93	4.74	99.14%	#N/A	#N/A	#N/A
		W11/1001	30.49			#N/A	#N/A	#N/A
R8/1001	BEDROOM	W12/1001	29.36	3.33	92.29%	#N/A	#N/A	#N/A
R9/1001	BEDROOM	W13/1001	29.25	2.96	91.37%	#N/A	#N/A	#N/A
R10/1001	BEDROOM	W14/1001	20.21	3.93	98.30%	#N/A	#N/A	#N/A
		W15/1001	27.50			#N/A	#N/A	#N/A
R11/1001	BEDROOM	W16/1001	29.56	4.27	97.57%	#N/A	#N/A	#N/A
		W17/1001	29.97			#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
<b>2nd Floor</b>								
R1/1002	LIVINGROOM	W1/1002	14.53	3.34	96.81%	0.00	15.00	15.00
		W18/1002	22.50			12.00	3.00	15.00
R2/1002	LIVINGROOM	W2/1002	11.14	1.78	96.27%	0.00	10.00	10.00
R3/1002	LKD	W3/1002	12.01	1.82	96.72%	2.00	10.00	12.00
		W4/1002	26.49			23.00	16.00	39.00
R4/1002	LKD	W5/1002	37.97	2.47	99.61%	37.00	24.00	61.00
		W6/1002	7.21			8.00	0.00	8.00
R5/1002	BEDROOM	W7/1002	12.26	1.77	97.03%	0.00	10.00	10.00
R6/1002	LKD	W8/1002	16.51	2.37	99.63%	8.00	12.00	20.00
		W9/1002	37.40			17.00	2.00	19.00
R7/1002	BEDROOM	W10/1002	34.28	5.08	99.15%	#N/A	#N/A	#N/A
		W11/1002	33.85			#N/A	#N/A	#N/A
R8/1002	BEDROOM	W12/1002	32.81	3.65	99.57%	#N/A	#N/A	#N/A
R9/1002	BEDROOM	W13/1002	32.74	3.25	99.20%	#N/A	#N/A	#N/A
R10/1002	LD	W14/1002	22.64	3.68	98.60%	#N/A	#N/A	#N/A
		W15/1002	30.72			#N/A	#N/A	#N/A
R11/1002	LD	W16/1002	32.82	4.09	98.74%	#N/A	#N/A	#N/A
		W17/1002	33.15			#N/A	#N/A	#N/A
<b>3rd Floor</b>								
R1/1003	LIVINGROOM	W1/1003	32.38	5.94	98.57%	26.00	22.00	48.00
		W18/1003	32.13			25.00	6.00	31.00
R2/1003	LIVINGROOM	W2/1003	18.65	2.64	98.13%	10.00	10.00	20.00
R3/1003	LKD	W3/1003	20.61	2.32	97.94%	15.00	11.00	26.00
		W4/1003	28.88			23.00	16.00	39.00
R4/1003	LKD	W5/1003	39.61	2.88	99.89%	37.00	24.00	61.00
		W6/1003	15.33			8.00	0.00	8.00
R5/1003	BEDROOM	W7/1003	19.77	2.56	98.02%	11.00	10.00	21.00
R6/1003	LKD	W8/1003	35.35	3.61	99.71%	38.00	18.00	56.00
		W9/1003	39.62			17.00	2.00	19.00
R7/1003	BEDROOM	W10/1003	36.88	5.41	99.15%	#N/A	#N/A	#N/A
		W11/1003	36.56			#N/A	#N/A	#N/A
R8/1003	BEDROOM	W12/1003	35.90	3.95	99.57%	#N/A	#N/A	#N/A
R9/1003	BEDROOM	W13/1003	35.90	3.52	99.20%	#N/A	#N/A	#N/A
R10/1003	BEDROOM	W14/1003	25.73	5.06	98.88%	#N/A	#N/A	#N/A
		W15/1003	34.49			#N/A	#N/A	#N/A
R11/1003	BEDROOM	W16/1003	35.96	5.18	97.61%	#N/A	#N/A	#N/A
		W17/1003	36.09			#N/A	#N/A	#N/A
<b>BLOCK 2</b>								
<b>Gnd Floor</b>								
R1/1100	LIVINGROOM	W1/1100	5.85	1.43	97.72%	3.00	4.00	7.00
		W14/1100	9.63			2.00	0.00	2.00
R2/1100	LKD	W2/1100	29.96	1.74	85.44%	35.00	19.00	54.00

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R3/1100	BEDROOM	W3/1100	30.09	2.91	98.94%	34.00	19.00	53.00
R4/1100	LD	W4/1100	30.66	3.44	98.76%	40.00	17.00	57.00
R5/1100	LKD	W5/1100	30.75	2.07	85.29%	40.00	16.00	56.00
R6/1100	BEDROOM	W6/1100	27.37	4.00	94.92%	#N/A	#N/A	#N/A
		W7/1100	26.66			#N/A	#N/A	#N/A
R7/1100	BEDROOM	W8/1100	24.83	2.77	72.48%	#N/A	#N/A	#N/A
R8/1100	LKD	W9/1100	17.80	2.27	61.81%	#N/A	#N/A	#N/A
		W10/1100	24.10			#N/A	#N/A	#N/A
R9/1100	LD	W11/1100	25.56	4.72	97.75%	#N/A	#N/A	#N/A
		W12/1100	26.46			#N/A	#N/A	#N/A
		W13/1100	16.45			#N/A	#N/A	#N/A
<b>1st Floor</b>								
R1/1101	BEDROOM	W1/1101	12.11	2.66	96.90%	4.00	10.00	14.00
		W18/1101	16.57			6.00	0.00	6.00
R2/1101	BEDROOM	W2/1101	9.05	1.46	96.23%	0.00	8.00	8.00
R3/1101	LKD	W3/1101	9.81	1.61	96.65%	1.00	10.00	11.00
		W4/1101	24.04			23.00	15.00	38.00
R4/1101	LKD	W5/1101	35.00	2.30	99.58%	37.00	23.00	60.00
		W6/1101	6.43			0.00	5.00	5.00
R5/1101	BEDROOM	W7/1101	10.03	1.49	97.03%	0.00	9.00	9.00
R6/1101	LKD	W8/1101	14.01	2.04	98.75%	0.00	16.00	16.00
		W9/1101	30.74			24.00	10.00	34.00
R7/1101	BEDROOM	W10/1101	30.47	4.69	99.14%	#N/A	#N/A	#N/A
		W11/1101	30.25			#N/A	#N/A	#N/A
R8/1101	BEDROOM	W12/1101	29.37	3.33	92.38%	#N/A	#N/A	#N/A
R9/1101	BEDROOM	W13/1101	29.23	2.96	91.73%	#N/A	#N/A	#N/A
R10/1101	BEDROOM	W14/1101	20.37	3.94	98.30%	#N/A	#N/A	#N/A
		W15/1101	27.54			#N/A	#N/A	#N/A
R11/1101	BEDROOM	W16/1101	29.40	4.26	97.57%	#N/A	#N/A	#N/A
		W17/1101	29.90			#N/A	#N/A	#N/A
<b>2nd Floor</b>								
R1/1102	LIVINGROOM	W1/1102	14.53	3.32	96.81%	4.00	11.00	15.00
		W18/1102	22.49			8.00	0.00	8.00
R2/1102	LIVINGROOM	W2/1102	11.13	1.79	96.27%	0.00	9.00	9.00
R3/1102	LKD	W3/1102	11.94	1.81	96.72%	1.00	11.00	12.00
		W4/1102	26.48			23.00	16.00	39.00
R4/1102	LKD	W5/1102	38.02	2.48	99.58%	37.00	24.00	61.00
		W6/1102	7.26			0.00	5.00	5.00
R5/1102	BEDROOM	W7/1102	12.33	1.78	97.03%	0.00	10.00	10.00
R6/1102	LKD	W8/1102	16.60	2.29	99.63%	0.00	17.00	17.00
		W9/1102	34.26			25.00	11.00	36.00
R7/1102	BEDROOM	W10/1102	33.27	4.99	99.15%	#N/A	#N/A	#N/A
		W11/1102	33.14			#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R8/1102	BEDROOM	W12/1102	32.67	3.64	99.57%	#N/A	#N/A	#N/A
R9/1102	BEDROOM	W13/1102	32.61	3.24	99.20%	#N/A	#N/A	#N/A
R10/1102	LD	W14/1102	22.79	3.68	98.60%	#N/A	#N/A	#N/A
		W15/1102	30.74			#N/A	#N/A	#N/A
R11/1102	LD	W16/1102	32.68	4.09	98.74%	#N/A	#N/A	#N/A
		W17/1102	33.07			#N/A	#N/A	#N/A
<b>3rd Floor</b>								
R1/1103	LIVINGROOM	W1/1103	32.38	5.94	98.57%	35.00	15.00	50.00
		W18/1103	32.15			9.00	0.00	9.00
R2/1103	LIVINGROOM	W2/1103	18.65	2.65	98.13%	13.00	9.00	22.00
R3/1103	LKD	W3/1103	20.54	2.31	97.94%	12.00	11.00	23.00
		W4/1103	28.87			23.00	16.00	39.00
R4/1103	LKD	W5/1103	39.61	2.87	99.89%	37.00	24.00	61.00
		W6/1103	15.32			9.00	5.00	14.00
R5/1103	BEDROOM	W7/1103	19.77	2.56	98.02%	12.00	10.00	22.00
R6/1103	LKD	W8/1103	35.30	3.54	99.71%	29.00	22.00	51.00
		W9/1103	37.30			27.00	12.00	39.00
R7/1103	BEDROOM	W10/1103	35.86	5.32	99.15%	#N/A	#N/A	#N/A
		W11/1103	35.82			#N/A	#N/A	#N/A
R8/1103	BEDROOM	W12/1103	35.72	3.93	99.57%	#N/A	#N/A	#N/A
R9/1103	BEDROOM	W13/1103	35.71	3.51	99.20%	#N/A	#N/A	#N/A
R10/1103	BEDROOM	W14/1103	25.82	5.06	98.88%	#N/A	#N/A	#N/A
		W15/1103	34.51			#N/A	#N/A	#N/A
R11/1103	BEDROOM	W16/1103	35.87	5.18	97.61%	#N/A	#N/A	#N/A
		W17/1103	36.04			#N/A	#N/A	#N/A
<b>BLOCK 4</b>								
<b>Gnd Floor</b>								
R1/1300	LD	W1/1300	11.42	2.40	98.45%	1.00	8.00	9.00
		W2/1300	7.69			1.00	4.00	5.00
		W14/1300	9.09			5.00	6.00	11.00
R2/1300	LD	W3/1300	7.41	1.37	91.86%	3.00	4.00	7.00
		W4/1300	9.76			9.00	3.00	12.00
R3/1300	LD	W5/1300	25.24	4.12	82.29%	42.00	11.00	53.00
R4/1300	BEDROOM	W6/1300	26.49	2.22	56.91%	37.00	10.00	47.00
R5/1300	LD	W7/1300	26.46	2.82	74.35%	40.00	11.00	51.00
R6/1300	LD	W8/1300	24.54	2.57	93.91%	33.00	10.00	43.00
R7/1300	BEDROOM	W9/1300	30.24	4.55	98.25%	#N/A	#N/A	#N/A
		W10/1300	34.19			#N/A	#N/A	#N/A
R8/1300	BEDROOM	W11/1300	21.91	2.32	97.10%	#N/A	#N/A	#N/A
R9/1300	LIVINGROOM	W12/1300	28.25	3.94	98.90%	7.00	0.00	7.00
		W13/1300	5.07			3.00	0.00	3.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
<b>1st Floor</b>								
R1/1301	BEDROOM	W1/1301	16.90	2.32	97.63%	2.00	13.00	15.00
		W2/1301	13.54			2.00	13.00	15.00
R2/1301	BEDROOM	W3/1301	13.59	2.26	98.24%	5.00	10.00	15.00
		W4/1301	16.29			9.00	8.00	17.00
R3/1301	LD	W5/1301	4.32	1.59	98.78%	0.00	2.00	2.00
		W6/1301	7.80			0.00	8.00	8.00
R4/1301	BEDROOM	W7/1301	7.63	1.25	82.72%	0.00	9.00	9.00
R5/1301	LD	W8/1301	6.53	3.01	87.35%	0.00	5.00	5.00
		W9/1301	30.83			37.00	16.00	53.00
R6/1301	LKD	W10/1301	6.87	2.54	98.28%	0.00	4.00	4.00
		W11/1301	15.47			14.00	9.00	23.00
		W12/1301	32.78			15.00	1.00	16.00
R7/1301	BEDROOM	W13/1301	36.17	5.39	98.13%	#N/A	#N/A	#N/A
		W14/1301	36.01			#N/A	#N/A	#N/A
R8/1301	BEDROOM	W15/1301	17.29	2.35	99.48%	#N/A	#N/A	#N/A
R9/1301	BEDROOM	W16/1301	21.67	2.86	98.59%	#N/A	#N/A	#N/A
R10/1301	BEDROOM	W17/1301	18.38	2.51	94.46%	#N/A	#N/A	#N/A
R11/1301	BEDROOM	W18/1301	29.67	3.52	98.36%	#N/A	#N/A	#N/A
<b>2nd Floor</b>								
R1/1302	LKD	W10/1302	20.26	2.60	98.91%	2.00	17.00	19.00
		W11/1302	16.67			2.00	18.00	20.00
R2/1302	LKD	W12/1302	16.78	2.60	98.67%	5.00	16.00	21.00
		W13/1302	19.86			9.00	12.00	21.00
R3/1302	LD	W14/1302	6.93	2.53	99.14%	0.00	6.00	6.00
		W15/1302	10.57			0.00	12.00	12.00
R4/1302	BEDROOM	W16/1302	10.43	1.81	95.91%	0.00	14.00	14.00
R5/1302	LD	W17/1302	7.89	3.32	99.67%	0.00	6.00	6.00
		W18/1302	34.62			37.00	24.00	61.00
R6/1302	LKD	W19/1302	9.18	2.91	98.86%	0.00	9.00	9.00
		W20/1302	18.59			14.00	15.00	29.00
		W21/1302	37.62			17.00	2.00	19.00
R7/1302	BEDROOM	W1/1302	37.36	5.53	98.13%	#N/A	#N/A	#N/A
		W2/1302	37.23			#N/A	#N/A	#N/A
R8/1302	BEDROOM	W3/1302	18.60	2.48	99.48%	#N/A	#N/A	#N/A
R9/1302	BEDROOM	W4/1302	22.97	2.99	98.68%	#N/A	#N/A	#N/A
R10/1302	LIVINGROOM	W5/1302	20.55	2.70	95.50%	#N/A	#N/A	#N/A
R11/1302	LIVINGROOM	W6/1302	32.09	7.37	99.00%	7.00	0.00	7.00
		W7/1302	21.99			6.00	0.00	6.00
		W8/1302	13.81			13.00	4.00	17.00
		W9/1302	11.64			14.00	8.00	22.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
<b>3rd Floor</b>								
R1/1303	BEDROOM	W1/1303	37.59	5.62	98.07%	26.00	20.00	46.00
		W2/1303	35.43			36.00	24.00	60.00
R2/1303	BEDROOM	W3/1303	35.52	6.08	98.11%	40.00	21.00	61.00
		W4/1303	37.38			26.00	19.00	45.00
R3/1303	LD	W5/1303	9.23	3.13	99.14%	0.00	7.00	7.00
		W6/1303	13.24			0.00	12.00	12.00
R4/1303	BEDROOM	W7/1303	13.10	2.16	95.74%	0.00	14.00	14.00
R5/1303	LD	W8/1303	9.59	3.61	99.55%	0.00	7.00	7.00
		W9/1303	37.81			37.00	24.00	61.00
R6/1303	LKD	W10/1303	10.79	3.13	99.01%	0.00	9.00	9.00
		W11/1303	21.00			14.00	15.00	29.00
		W12/1303	39.62			17.00	2.00	19.00
R7/1303	BEDROOM	W13/1303	38.19	5.65	98.13%	#N/A	#N/A	#N/A
		W14/1303	38.11			#N/A	#N/A	#N/A
R8/1303	BEDROOM	W15/1303	19.44	2.57	99.48%	#N/A	#N/A	#N/A
R9/1303	BEDROOM	W16/1303	23.98	3.09	98.59%	#N/A	#N/A	#N/A
R10/1303	BEDROOM	W17/1303	27.12	3.44	96.76%	#N/A	#N/A	#N/A
R11/1303		W18/1303	34.40	2.61	96.67%	#N/A	#N/A	#N/A
R12/1303	BEDROOM	W19/1303	36.92	4.03	97.62%	#N/A	#N/A	#N/A
<b>4th Floor</b>								
R1/1304	LD	W1/1304	38.86	7.40	99.59%	37.00	24.00	61.00
		W2/1304	34.36			31.00	24.00	55.00
R2/1304	BEDROOM	W3/1304	31.20	4.23	98.00%	25.00	21.00	46.00
R3/1304	LD	W4/1304	26.36	4.44	99.62%	20.00	10.00	30.00
		W5/1304	39.60			37.00	24.00	61.00
R4/1304	LKD	W6/1304	27.92	4.44	99.01%	23.00	13.00	36.00
		W7/1304	35.72			40.00	18.00	58.00
		W8/1304	39.62			17.00	2.00	19.00
R5/1304	BEDROOM	W9/1304	38.80	5.73	98.20%	#N/A	#N/A	#N/A
		W10/1304	38.77			#N/A	#N/A	#N/A
R6/1304	BEDROOM	W11/1304	38.62	4.27	99.48%	#N/A	#N/A	#N/A
R7/1304	BEDROOM	W12/1304	38.56	3.80	98.91%	#N/A	#N/A	#N/A
<b>BLOCK 3</b>								
<b>Gnd Floor</b>								
R1/1200	LKD	W1/1200	14.03	3.10	98.68%	6.00	11.00	17.00
		W14/1200	25.06			17.00	4.00	21.00
		W15/1200	25.02			18.00	8.00	26.00
		W16/1200	18.23			16.00	4.00	20.00
R2/1200	BEDROOM	W2/1200	9.15	1.34	81.15%	7.00	4.00	11.00
R3/1200	BEDROOM	W3/1200	23.22	2.68	79.21%	33.00	8.00	41.00
R4/1200	LD	W4/1200	9.00	1.87	92.87%	3.00	5.00	8.00
		W5/1200	11.73			5.00	11.00	16.00



Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R5/1200	LKD	W6/1200	12.65	3.15	99.26%	6.00	7.00	13.00
		W7/1200	13.81			9.00	5.00	14.00
		W8/1200	10.00			13.00	0.00	13.00
R6/1200	LIVINGROOM	W9/1200	5.04	3.98	98.51%	#N/A	#N/A	#N/A
		W10/1200	28.30			#N/A	#N/A	#N/A
R7/1200	BEDROOM	W11/1200	9.81	2.54	98.94%	#N/A	#N/A	#N/A
		W12/1200	30.86			#N/A	#N/A	#N/A
R8/1200	LD	W13/1200	25.72	2.34	76.45%	24.00	6.00	30.00
<b>1st Floor</b>								
R1/1201	LKD	W1/1201	28.08	3.08	98.32%	22.00	10.00	32.00
		W2/1201	20.69			0.00	0.00	0.00
		W3/1201	15.73			4.00	14.00	18.00
		W26/1201	28.04			22.00	5.00	27.00
R2/1201	BEDROOM	W4/1201	10.69	1.59	93.81%	4.00	7.00	11.00
R3/1201	BEDROOM	W5/1201	27.06	3.20	98.24%	35.00	13.00	48.00
R4/1201	BEDROOM	W6/1201	26.75	3.08	91.86%	30.00	16.00	46.00
R5/1201	BEDROOM	W7/1201	10.04	1.45	70.21%	1.00	7.00	8.00
R6/1201	LD	W8/1201	10.28	1.58	46.01%	7.00	5.00	12.00
		W9/1201	15.60			12.00	0.00	12.00
R7/1201	BEDROOM	W10/1201	12.48	2.24	98.11%	1.00	11.00	12.00
		W11/1201	12.76			2.00	11.00	13.00
R8/1201	BEDROOM	W12/1201	13.55	3.71	98.45%	5.00	10.00	15.00
		W13/1201	15.20			7.00	5.00	12.00
		W14/1201	12.64			14.00	1.00	15.00
R9/1201	BEDROOM	W15/1201	29.71	3.53	98.44%	#N/A	#N/A	#N/A
R10/1201	BEDROOM	W16/1201	18.51	2.53	94.62%	#N/A	#N/A	#N/A
R11/1201	LD	W17/1201	18.81	2.49	99.13%	#N/A	#N/A	#N/A
		W18/1201	21.97			#N/A	#N/A	#N/A
R12/1201	BEDROOM	W19/1201	17.42	2.24	97.83%	#N/A	#N/A	#N/A
R13/1201	BEDROOM	W20/1201	33.16	3.51	98.18%	#N/A	#N/A	#N/A
R14/1201	BEDROOM	W21/1201	11.24	1.65	99.47%	#N/A	#N/A	#N/A
R15/1201	LKD	W22/1201	11.49	3.54	99.05%	7.00	0.00	7.00
		W23/1201	32.24			1.00	0.00	1.00
		W24/1201	29.83			27.00	8.00	35.00
R16/1201	BEDROOM	W25/1201	28.47	3.57	86.07%	29.00	8.00	37.00
<b>2nd Floor</b>								
R1/1202	LKD	W1/1202	23.30	3.48	98.82%	0.00	0.00	0.00
		W2/1202	19.09			4.00	20.00	24.00
		W28/1202	31.25			27.00	5.00	32.00
		W29/1202	31.32			26.00	11.00	37.00
R2/1202	BEDROOM	W3/1202	14.27	2.01	98.73%	4.00	13.00	17.00
R3/1202	BEDROOM	W4/1202	31.23	3.54	98.56%	35.00	19.00	54.00
R4/1202	BEDROOM	W5/1202	31.05	3.42	98.97%	30.00	22.00	52.00

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R5/1202	BEDROOM	W6/1202	13.86	1.91	99.60%	1.00	15.00	16.00
R6/1202	LD	W7/1202	14.07	1.96	88.29%	7.00	13.00	20.00
		W8/1202	18.93			12.00	0.00	12.00
R7/1202	LD	W9/1202	16.05	2.51	98.56%	1.00	17.00	18.00
		W10/1202	15.74			2.00	17.00	19.00
R8/1202	LD	W11/1202	16.54	4.23	98.72%	5.00	15.00	20.00
		W12/1202	18.50			7.00	11.00	18.00
		W13/1202	17.51			15.00	1.00	16.00
R9/1202	LIVINGROOM	W14/1202	11.55	6.89	99.00%	13.00	6.00	19.00
		W15/1202	13.69			8.00	2.00	10.00
		W16/1202	21.39			0.00	0.00	0.00
		W17/1202	32.07			0.00	0.00	0.00
R10/1202	LIVINGROOM	W18/1202	20.59	2.73	95.94%	#N/A	#N/A	#N/A
R11/1202	LD	W19/1202	22.54	2.67	99.13%	#N/A	#N/A	#N/A
		W20/1202	23.14			#N/A	#N/A	#N/A
R12/1202	BEDROOM	W21/1202	18.59	2.36	97.83%	#N/A	#N/A	#N/A
R13/1202	BEDROOM	W22/1202	34.47	3.61	98.18%	#N/A	#N/A	#N/A
R14/1202	BEDROOM	W23/1202	12.29	1.77	99.47%	#N/A	#N/A	#N/A
R15/1202	LKD	W24/1202	12.53	3.76	99.05%	7.00	0.00	7.00
		W25/1202	33.34			1.00	0.00	1.00
		W26/1202	32.61			30.00	8.00	38.00
R16/1202	BEDROOM	W27/1202	31.43	3.88	89.53%	31.00	8.00	39.00
<b>3rd Floor</b>								
R1/1203	LKD	W1/1203	34.68	4.68	99.40%	28.00	12.00	40.00
		W2/1203	27.09			0.00	0.00	0.00
		W3/1203	37.15			40.00	23.00	63.00
		W26/1203	34.61			28.00	7.00	35.00
R2/1203	BEDROOM	W4/1203	37.34	4.00	98.73%	37.00	24.00	61.00
R3/1203	BEDROOM	W5/1203	37.27	4.02	98.56%	37.00	24.00	61.00
R4/1203	BEDROOM	W6/1203	37.19	3.89	98.97%	37.00	24.00	61.00
R5/1203	BEDROOM	W7/1203	37.18	3.92	99.60%	37.00	24.00	61.00
R6/1203	LD	W8/1203	37.17	3.40	88.29%	37.00	24.00	61.00
		W9/1203	26.33			12.00	0.00	12.00
R7/1203	BEDROOM	W10/1203	35.61	5.43	98.83%	26.00	20.00	46.00
		W11/1203	34.61			35.00	23.00	58.00
R8/1203	BEDROOM	W12/1203	34.92	5.03	98.05%	40.00	20.00	60.00
		W13/1203	37.60			26.00	20.00	46.00
R9/1203	BEDROOM	W15/1203	36.99	4.03	97.62%	#N/A	#N/A	#N/A
R10/1203	BEDROOM	W16/1203	27.46	3.43	97.07%	#N/A	#N/A	#N/A
R11/1203	LD	W17/1203	29.16	2.89	99.59%	#N/A	#N/A	#N/A
		W18/1203	24.13			#N/A	#N/A	#N/A
R12/1203	BEDROOM	W19/1203	19.64	2.45	97.83%	#N/A	#N/A	#N/A
R13/1203	BEDROOM	W20/1203	36.11	3.70	98.18%	#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R14/1203	BEDROOM	W21/1203	13.21	1.86	99.47%	#N/A	#N/A	#N/A
R15/1203	LKD	W22/1203	13.37	3.98	99.60%	7.00	0.00	7.00
		W23/1203	34.73			1.00	0.00	1.00
		W24/1203	35.48			30.00	12.00	42.00
R16/1203	BEDROOM	W25/1203	34.59	4.21	98.16%	33.00	11.00	44.00
<b>4th Floor</b>								
R1/1204	BEDROOM	W2/1204	37.84	3.70	98.09%	30.00	13.00	43.00
R2/1204	LKD	W3/1204	38.65	4.19	98.56%	#N/A	#N/A	#N/A
		W4/1204	38.47			#N/A	#N/A	#N/A
R3/1204	BEDROOM	W5/1204	38.57	4.00	97.99%	#N/A	#N/A	#N/A
R4/1204	BEDROOM	W6/1204	38.60	3.83	98.18%	#N/A	#N/A	#N/A
R5/1204	BEDROOM	W7/1204	38.65	3.90	99.39%	#N/A	#N/A	#N/A
R6/1204	LKD	W1/1204	38.08	5.70	99.93%	30.00	14.00	44.00
		W8/1204	38.61			7.00	0.00	7.00
		W9/1204	38.71			1.00	0.00	1.00
<b>BLOCK 5</b>								
<b>Gnd Floor</b>								
R1/1400	LD	W1/1400	32.46	3.76	99.93%	37.00	18.00	55.00
		W2/1400	29.06			26.00	16.00	42.00
		W48/1400	15.31			6.00	10.00	16.00
R2/1400	STUDIO	W4/1400	25.42	2.21	97.44%	33.00	16.00	49.00
		W6/1400	12.51			4.00	12.00	16.00
R3/1400	BEDROOM	W31/1400	0.87	0.16	24.56%	#N/A	#N/A	#N/A
R4/1400	BEDROOM	W5/1400	10.48	1.16	78.07%	11.00	7.00	18.00
R5/1400	BEDROOM	W3/1400	28.48	3.66	99.21%	36.00	16.00	52.00
R6/1400	LD	W7/1400	30.16	5.31	98.69%	41.00	16.00	57.00
		W8/1400	23.15			19.00	1.00	20.00
R7/1400	LD	W9/1400	24.57	4.86	95.96%	#N/A	#N/A	#N/A
		W10/1400	24.16			#N/A	#N/A	#N/A
R8/1400	BEDROOM	W11/1400	23.16	1.40	86.44%	#N/A	#N/A	#N/A
R9/1400	BEDROOM	W12/1400	20.08	2.41	67.10%	#N/A	#N/A	#N/A
R10/1400	BEDROOM	W29/1400	0.59	0.04	7.55%	#N/A	#N/A	#N/A
R11/1400	BEDROOM	W17/1400	0.91	1.59	93.66%	0.00	0.00	0.00
		W18/1400	13.01			8.00	0.00	8.00
R12/1400	BEDROOM	W19/1400	18.11	1.56	80.93%	#N/A	#N/A	#N/A
R13/1400	LD	W20/1400	16.35	1.70	89.72%	#N/A	#N/A	#N/A
R14/1400	BEDROOM	W32/1400	0.61	0.27	24.91%	0.00	0.00	0.00
R15/1400	BEDROOM	W23/1400	22.49	2.62	81.65%	34.00	6.00	40.00
R16/1400	BEDROOM	W24/1400	25.21	1.52	89.59%	26.00	8.00	34.00
R17/1400	LD	W25/1400	26.06	4.83	96.59%	39.00	10.00	49.00
		W26/1400	21.91			16.00	0.00	16.00
R18/1400	LD	W27/1400	20.68	5.48	98.69%	#N/A	#N/A	#N/A
		W28/1400	34.79			#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R19/1400	BEDROOM	W13/1400	33.15	4.15	99.21%	#N/A	#N/A	#N/A
R20/1400	BEDROOM	W30/1400	16.19	1.86	98.65%	#N/A	#N/A	#N/A
R21/1400	BEDROOM	W22/1400	0.28	0.10	10.35%	0.00	0.00	0.00
R22/1400	STUDIO	W14/1400	11.65	2.56	97.93%	#N/A	#N/A	#N/A
		W21/1400	28.86			#N/A	#N/A	#N/A
R23/1400	LKD	W33/1400	27.37	4.12	99.38%	1.00	0.00	1.00
		W34/1400	33.03			7.00	0.00	7.00
		W35/1400	15.59			9.00	8.00	17.00
R24/1400	BEDROOM	W36/1400	12.69	1.07	95.75%	4.00	7.00	11.00
R25/1400	BEDROOM	W37/1400	34.65	3.44	98.97%	30.00	13.00	43.00
R26/1400	LD	W38/1400	34.49	4.02	99.36%	32.00	13.00	45.00
		W39/1400	31.93			27.00	7.00	34.00
R27/1400	BEDROOM	W40/1400	13.69	1.07	96.03%	7.00	3.00	10.00
R28/1400	BEDROOM	W16/1400	4.11	1.86	98.14%	0.00	1.00	1.00
		W41/1400	10.90			5.00	7.00	12.00
R29/1400	BEDROOM	W15/1400	2.82	1.68	98.01%	0.00	0.00	0.00
		W42/1400	10.84			7.00	3.00	10.00
R30/1400	BEDROOM	W43/1400	13.41	1.06	96.03%	4.00	7.00	11.00
R31/1400	LD	W44/1400	31.96	4.05	99.41%	28.00	8.00	36.00
		W45/1400	34.74			33.00	13.00	46.00
R32/1400	BEDROOM	W46/1400	35.00	3.46	98.84%	29.00	13.00	42.00
R33/1400	BEDROOM	W47/1400	14.55	1.18	95.64%	9.00	3.00	12.00
<b>1st Floor</b>								
R1/1401	LKD	W1/1401	35.61	4.28	99.86%	37.00	23.00	60.00
		W2/1401	32.41			26.00	19.00	45.00
		W78/1401	11.03			5.00	4.00	9.00
		W79/1401	15.75			6.00	10.00	16.00
R2/1401	LKD	W34/1401	12.44	1.72	98.72%	2.00	15.00	17.00
R3/1401	BEDROOM	W5/1401	28.95	3.29	99.26%	31.00	20.00	51.00
R4/1401	KD	W4/1401	31.61	3.26	98.61%	#N/A	#N/A	#N/A
R5/1401	LD	W8/1401	14.98	2.22	99.82%	#N/A	#N/A	#N/A
R6/1401	BEDROOM	W6/1401	13.02	2.52	98.44%	#N/A	#N/A	#N/A
		W7/1401	29.42			#N/A	#N/A	#N/A
R7/1401	BEDROOM	W3/1401	30.62	3.64	98.36%	#N/A	#N/A	#N/A
R8/1401	LD	W9/1401	19.47	2.88	99.81%	#N/A	#N/A	#N/A
R9/1401	LIVINGROOM	W13/1401	33.89	7.27	100.00%	37.00	22.00	59.00
		W14/1401	28.40			19.00	2.00	21.00
		W15/1401	17.03			14.00	0.00	14.00
R10/1401	BEDROOM	W16/1401	8.80	1.48	93.18%	#N/A	#N/A	#N/A
R11/1401	BEDROOM	W17/1401	29.03	5.50	99.23%	#N/A	#N/A	#N/A
		W18/1401	27.88			#N/A	#N/A	#N/A
R12/1401	BEDROOM	W19/1401	26.56	1.85	90.71%	0.00	0.00	0.00
		W21/1401	0.22			0.00	0.00	0.00

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R13/1401	BEDROOM	W20/1401	0.97	0.21	27.93%	0.00	1.00	1.00
		W59/1401	0.00			0.00	0.00	0.00
R14/1401	BEDROOM	W22/1401	1.10	0.27	54.32%	0.00	1.00	1.00
		W60/1401	0.41			0.00	0.00	0.00
R15/1401	BEDROOM	W27/1401	1.16	2.16	93.95%	#N/A	#N/A	#N/A
		W28/1401	17.45			#N/A	#N/A	#N/A
R16/1401	LKD	W23/1401	0.17	2.16	98.26%	0.00	0.00	0.00
		W25/1401	20.78			14.00	0.00	14.00
		W77/1401	5.69			5.00	0.00	5.00
R17/1401	LKD	W33/1401	2.07	1.67	98.70%	0.00	1.00	1.00
		W70/1401	10.62			4.00	3.00	7.00
		W71/1401	16.31			7.00	12.00	19.00
R18/1401	BEDROOM	W26/1401	18.31	2.02	91.82%	#N/A	#N/A	#N/A
R19/1401	LKD	W29/1401	5.14	1.10	95.03%	#N/A	#N/A	#N/A
		W31/1401	0.04			#N/A	#N/A	#N/A
R20/1401	LD	W32/1401	17.56	2.71	99.81%	7.00	21.00	28.00
R21/1401	BEDROOM	W43/1401	0.45	2.00	90.71%	0.00	0.00	0.00
		W44/1401	28.93			26.00	12.00	38.00
R22/1401	BEDROOM	W45/1401	30.12	5.36	97.12%	26.00	12.00	38.00
		W46/1401	26.45			19.00	1.00	20.00
R23/1401	BEDROOM	W47/1401	6.77	1.31	89.95%	#N/A	#N/A	#N/A
R24/1401	LIVINGROOM	W48/1401	14.09	7.03	99.73%	#N/A	#N/A	#N/A
		W49/1401	25.56			#N/A	#N/A	#N/A
		W50/1401	35.08			#N/A	#N/A	#N/A
R25/1401	BEDROOM	W36/1401	1.90	0.12	24.85%	0.00	0.00	0.00
R26/1401	BEDROOM	W37/1401	1.85	0.17	45.41%	#N/A	#N/A	#N/A
		W56/1401	0.23			#N/A	#N/A	#N/A
R27/1401	LD	W30/1401	12.51	1.95	99.81%	6.00	13.00	19.00
R28/1401	KD	W39/1401	29.97	3.08	98.17%	34.00	17.00	51.00
R29/1401	BEDROOM	W40/1401	12.17	2.37	98.36%	0.00	12.00	12.00
		W41/1401	28.34			22.00	18.00	40.00
R30/1401	BEDROOM	W58/1401	29.44	2.88	99.32%	#N/A	#N/A	#N/A
R31/1401	LKD	W10/1401	14.31	2.66	99.68%	6.00	0.00	6.00
		W61/1401	21.66			15.00	2.00	17.00
R32/1401	LKD	W62/1401	28.31	4.22	99.11%	1.00	0.00	1.00
		W63/1401	34.29			7.00	0.00	7.00
		W64/1401	16.14			7.00	8.00	15.00
		W65/1401	10.53			2.00	5.00	7.00
R33/1401	BEDROOM	W66/1401	31.98	3.62	97.59%	28.00	13.00	41.00
R34/1401	BEDROOM	W67/1401	35.78	4.30	99.17%	30.00	13.00	43.00
R35/1401	BEDROOM	W68/1401	35.77	4.31	99.08%	30.00	13.00	43.00
R36/1401	BEDROOM	W69/1401	31.60	3.68	97.72%	26.00	5.00	31.00
R37/1401	BEDROOM	W42/1401	29.37	3.49	98.44%	34.00	20.00	54.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
R38/1401	LKD	W24/1401	1.21	1.55	99.59%	0.00	0.00	0.00
		W72/1401	16.16			8.00	7.00	15.00
		W73/1401	10.45			2.00	4.00	6.00
R39/1401	BEDROOM	W74/1401	31.56	3.58	98.07%	27.00	13.00	40.00
R40/1401	BEDROOM	W75/1401	35.87	4.34	99.08%	30.00	14.00	44.00
R41/1401	BEDROOM	W76/1401	36.21	4.34	99.18%	30.00	14.00	44.00
R42/1401	BEDROOM	W51/1401	31.86	3.60	98.39%	26.00	6.00	32.00
R43/1401	KITCHEN	W12/1401	0.00	0.00	0.00%	0.00	0.00	0.00
R44/1401	KITCHEN	W11/1401	0.14	0.17	48.51%	0.00	0.00	0.00
R45/1401	KITCHEN	W35/1401	0.00	0.00	0.00%	#N/A	#N/A	#N/A
R46/1401	KITCHEN	W38/1401	0.09	0.12	48.96%	#N/A	#N/A	#N/A
<b>2nd Floor</b>								
R1/1402	LKD	W1/1402	38.19	4.65	99.86%	37.00	24.00	61.00
		W2/1402	35.70			26.00	20.00	46.00
		W81/1402	11.80			5.00	5.00	10.00
		W82/1402	16.52			6.00	11.00	17.00
R2/1402	LKD	W7/1402	15.17	2.09	98.72%	2.00	16.00	18.00
R3/1402	BEDROOM	W5/1402	32.96	3.68	99.26%	33.00	21.00	54.00
R4/1402	LD	W24/1402	20.43	2.98	99.72%	#N/A	#N/A	#N/A
R5/1402	BEDROOM	W42/1402	5.18	0.58	64.14%	#N/A	#N/A	#N/A
		W58/1402	0.32			#N/A	#N/A	#N/A
R6/1402	BEDROOM	W50/1402	4.99	0.54	38.53%	0.00	0.00	0.00
		W56/1402	0.00			0.00	0.00	0.00
R7/1402	KITCHEN	W34/1402	0.00	0.02	40.60%	0.00	0.00	0.00
R8/1402	KD	W3/1402	33.40	3.51	98.54%	34.00	18.00	52.00
R9/1402	LIVINGROOM	W13/1402	37.24	8.25	100.00%	37.00	23.00	60.00
		W14/1402	32.22			19.00	3.00	22.00
		W15/1402	20.45			15.00	0.00	15.00
R10/1402	BEDROOM	W16/1402	12.26	2.02	95.80%	#N/A	#N/A	#N/A
R11/1402	BEDROOM	W17/1402	32.79	6.20	99.42%	#N/A	#N/A	#N/A
		W18/1402	31.16			#N/A	#N/A	#N/A
R12/1402	BEDROOM	W19/1402	30.14	2.10	90.36%	0.00	0.00	0.00
		W59/1402	0.61			0.00	0.00	0.00
R13/1402	BEDROOM	W26/1402	33.44	3.91	98.44%	34.00	20.00	54.00
R14/1402	BEDROOM	W27/1402	32.51	2.76	98.44%	22.00	19.00	41.00
		W29/1402	15.33			0.00	13.00	13.00
R15/1402	BEDROOM	W28/1402	20.04	2.37	94.93%	#N/A	#N/A	#N/A
		W33/1402	1.50			#N/A	#N/A	#N/A
R16/1402	LD	W37/1402	6.54	1.74	98.53%	#N/A	#N/A	#N/A
R17/1402	LKD	W32/1402	10.25	2.12	97.74%	#N/A	#N/A	#N/A
		W36/1402	14.10			#N/A	#N/A	#N/A
R18/1402	LKD	W31/1402	24.07	2.48	98.66%	#N/A	#N/A	#N/A
		W35/1402	7.14			#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R19/1402	BEDROOM	W30/1402	20.39	2.22	93.92%	#N/A	#N/A	#N/A
R20/1402	BEDROOM	W38/1402	2.62	0.28	73.32%	0.00	1.00	1.00
R21/1402	BEDROOM	W39/1402	2.85	0.35	74.77%	0.00	2.00	2.00
R22/1402	BEDROOM	W43/1402	32.62	2.25	90.94%	26.00	19.00	45.00
R23/1402	BEDROOM	W44/1402	33.56	6.08	99.04%	26.00	17.00	43.00
		W45/1402	29.99			19.00	1.00	20.00
R24/1402	BEDROOM	W46/1402	9.84	1.69	95.80%	#N/A	#N/A	#N/A
R25/1402	LIVINGROOM	W47/1402	17.17	7.73	99.73%	#N/A	#N/A	#N/A
		W48/1402	28.71			#N/A	#N/A	#N/A
		W49/1402	36.29			#N/A	#N/A	#N/A
R26/1402	KD	W22/1402	32.66	3.47	98.60%	#N/A	#N/A	#N/A
R27/1402	LD	W23/1402	15.93	2.33	99.40%	#N/A	#N/A	#N/A
R28/1402	BEDROOM	W20/1402	30.59	2.70	98.35%	#N/A	#N/A	#N/A
		W21/1402	13.97			#N/A	#N/A	#N/A
R29/1402	BEDROOM	W12/1402	31.82	3.88	98.51%	#N/A	#N/A	#N/A
R30/1402	KITCHEN	W40/1402	0.19	0.22	81.79%	0.00	0.00	0.00
R32/1402	LKD	W25/1402	15.28	2.86	99.68%	6.00	0.00	6.00
		W60/1402	22.52			16.00	2.00	18.00
R33/1402	LKD	W61/1402	29.14	4.48	99.32%	1.00	0.00	1.00
		W62/1402	35.55			7.00	0.00	7.00
		W63/1402	17.04			7.00	9.00	16.00
		W64/1402	11.42			2.00	6.00	8.00
R34/1402	BEDROOM	W65/1402	33.01	3.83	97.59%	28.00	15.00	43.00
R35/1402	BEDROOM	W66/1402	36.90	4.56	99.17%	30.00	15.00	45.00
R36/1402	BEDROOM	W67/1402	36.88	4.57	99.08%	30.00	14.00	44.00
R37/1402	BEDROOM	W68/1402	32.58	3.89	97.72%	26.00	6.00	32.00
R38/1402	LKD	W69/1402	11.44	2.06	99.59%	4.00	4.00	8.00
		W70/1402	17.16			7.00	13.00	20.00
		W71/1402	14.18			9.00	6.00	15.00
R39/1402	BEDROOM	W9/1402	26.99	3.26	98.77%	25.00	10.00	35.00
R40/1402	BEDROOM	W10/1402	27.02	3.86	93.71%	24.00	7.00	31.00
R41/1402	LKD	W11/1402	0.00	1.59	99.56%	0.00	0.00	0.00
		W75/1402	17.00			8.00	9.00	17.00
		W76/1402	11.26			2.00	6.00	8.00
R42/1402	BEDROOM	W77/1402	32.49	3.78	98.07%	27.00	15.00	42.00
R43/1402	BEDROOM	W78/1402	36.96	4.59	99.08%	30.00	15.00	45.00
R44/1402	BEDROOM	W79/1402	37.51	4.59	99.18%	30.00	15.00	45.00
R45/1402	BEDROOM	W8/1402	33.41	3.82	98.39%	27.00	7.00	34.00
R46/1402	KITCHEN	W51/1402	0.00	0.00	0.00%	#N/A	#N/A	#N/A
R47/1402	LD	W6/1402	20.75	3.01	99.77%	7.00	22.00	29.00
R48/1402	LD	W4/1402	15.54	2.35	99.72%	6.00	14.00	20.00
R49/1402	KITCHEN	W41/1402	0.12	0.15	46.57%	#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
<b>3rd Floor</b>								
R1/1403	LKD	W1/1403	39.59	6.56	99.86%	37.00	24.00	61.00
		W2/1403	39.60			26.00	20.00	46.00
		W81/1403	38.97			28.00	10.00	38.00
		W82/1403	38.93			33.00	15.00	48.00
R2/1403	LKD	W7/1403	39.60	4.67	98.72%	45.00	26.00	71.00
R3/1403	BEDROOM	W5/1403	39.60	4.20	99.26%	40.00	24.00	64.00
R4/1403	LD	W6/1403	39.60	5.18	99.77%	45.00	26.00	71.00
R5/1403	BEDROOM	W42/1403	18.98	2.96	99.24%	#N/A	#N/A	#N/A
		W58/1403	10.86			#N/A	#N/A	#N/A
R6/1403	BEDROOM	W50/1403	17.69	2.14	96.79%	0.00	0.00	0.00
		W56/1403	4.07			0.00	0.00	0.00
R7/1403	LD	W4/1403	39.60	5.18	99.68%	45.00	26.00	71.00
R8/1403	KD	W3/1403	36.55	3.70	98.90%	35.00	20.00	55.00
R9/1403	LIVINGROOM	W13/1403	39.38	9.68	100.00%	37.00	24.00	61.00
		W14/1403	37.81			19.00	3.00	22.00
		W15/1403	37.32			15.00	0.00	15.00
R10/1403	BEDROOM	W16/1403	37.33	4.38	95.80%	#N/A	#N/A	#N/A
R11/1403	BEDROOM	W17/1403	37.33	6.79	99.42%	#N/A	#N/A	#N/A
		W18/1403	34.45			#N/A	#N/A	#N/A
R12/1403	BEDROOM	W19/1403	33.80	3.91	98.72%	0.00	0.00	0.00
		W59/1403	19.33			20.00	3.00	23.00
R13/1403	BEDROOM	W26/1403	39.60	4.40	98.44%	37.00	24.00	61.00
R14/1403	BEDROOM	W27/1403	39.60	3.84	98.44%	26.00	20.00	46.00
		W29/1403	39.60			26.00	20.00	46.00
R15/1403	BEDROOM	W28/1403	26.09	2.88	96.37%	#N/A	#N/A	#N/A
		W33/1403	2.13			#N/A	#N/A	#N/A
R16/1403	LD	W37/1403	8.78	2.05	99.02%	#N/A	#N/A	#N/A
R17/1403	LKD	W32/1403	12.29	2.38	98.26%	#N/A	#N/A	#N/A
		W36/1403	16.97			#N/A	#N/A	#N/A
R18/1403	LKD	W31/1403	28.86	2.82	99.09%	#N/A	#N/A	#N/A
		W35/1403	9.15			#N/A	#N/A	#N/A
R19/1403	BEDROOM	W30/1403	23.07	2.37	96.67%	#N/A	#N/A	#N/A
R20/1403	BEDROOM	W38/1403	7.70	0.83	89.98%	4.00	2.00	6.00
R21/1403	BEDROOM	W39/1403	8.03	0.87	95.18%	3.00	2.00	5.00
R22/1403	BEDROOM	W43/1403	36.17	2.42	90.94%	26.00	20.00	46.00
R23/1403	BEDROOM	W44/1403	36.78	6.60	99.04%	26.00	20.00	46.00
		W45/1403	33.93			19.00	3.00	22.00
R24/1403	BEDROOM	W46/1403	13.29	2.15	96.24%	#N/A	#N/A	#N/A
R25/1403	LIVINGROOM	W47/1403	20.49	8.26	99.73%	#N/A	#N/A	#N/A
		W48/1403	32.34			#N/A	#N/A	#N/A
		W49/1403	37.52			#N/A	#N/A	#N/A
R26/1403	KD	W22/1403	33.91	3.55	98.60%	#N/A	#N/A	#N/A



Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R27/1403	KITCHEN	W41/1403	16.06	2.29	97.61%	#N/A	#N/A	#N/A
R28/1403	BEDROOM	W20/1403	32.43	2.76	98.35%	#N/A	#N/A	#N/A
		W21/1403	14.87			#N/A	#N/A	#N/A
R29/1403	BEDROOM	W12/1403	33.65	3.95	98.51%	#N/A	#N/A	#N/A
R30/1403	KITCHEN	W51/1403	11.73	1.91	87.48%	#N/A	#N/A	#N/A
R32/1403	LKD	W25/1403	15.95	2.95	99.72%	6.00	0.00	6.00
		W60/1403	23.66			17.00	2.00	19.00
R33/1403	LKD	W61/1403	29.91	4.59	99.35%	1.00	0.00	1.00
		W62/1403	36.85			7.00	0.00	7.00
		W63/1403	17.71			7.00	9.00	16.00
		W64/1403	12.07			2.00	6.00	8.00
R34/1403	BEDROOM	W65/1403	34.49	3.90	97.59%	28.00	15.00	43.00
R35/1403	BEDROOM	W66/1403	38.17	4.63	99.17%	30.00	15.00	45.00
R36/1403	BEDROOM	W67/1403	38.15	4.64	99.08%	30.00	15.00	45.00
R37/1403	BEDROOM	W68/1403	34.00	3.97	97.72%	27.00	7.00	34.00
R38/1403	LKD	W69/1403	12.10	2.20	99.66%	4.00	5.00	9.00
		W70/1403	17.93			7.00	14.00	21.00
		W71/1403	16.92			11.00	8.00	19.00
R39/1403	BEDROOM	W9/1403	28.62	3.35	98.92%	25.00	13.00	38.00
R40/1403	BEDROOM	W10/1403	28.65	3.98	94.10%	24.00	7.00	31.00
R41/1403	LKD	W11/1403	0.00	1.64	99.56%	0.00	0.00	0.00
		W75/1403	17.73			8.00	9.00	17.00
		W76/1403	11.88			2.00	6.00	8.00
R42/1403	BEDROOM	W77/1403	33.84	3.85	98.07%	27.00	15.00	42.00
R43/1403	BEDROOM	W78/1403	38.20	4.66	99.08%	30.00	15.00	45.00
R44/1403	BEDROOM	W79/1403	38.80	4.66	99.18%	30.00	15.00	45.00
R45/1403	BEDROOM	W8/1403	38.93	4.30	98.39%	30.00	15.00	45.00
R46/1403	LD	W24/1403	21.41	3.05	99.77%	#N/A	#N/A	#N/A
R47/1403	LD	W23/1403	16.64	2.42	99.68%	#N/A	#N/A	#N/A
R48/1403	KITCHEN	W40/1403	1.20	0.59	89.40%	0.00	0.00	0.00
R49/1403	KITCHEN	W34/1403	0.76	0.45	65.67%	0.00	0.00	0.00
<b>4th Floor</b>								
R1/1404	BEDROOM	W76/1404	39.43	2.00	89.26%	28.00	10.00	38.00
R2/1404	LD	W4/1404	39.61	3.68	99.14%	37.00	24.00	61.00
R3/1404	LD	W24/1404	38.94	5.11	99.72%	#N/A	#N/A	#N/A
R4/1404	LD	W23/1404	38.87	5.08	99.58%	#N/A	#N/A	#N/A
R5/1404	KITCHEN	W34/1404	17.57	2.41	97.61%	19.00	6.00	25.00
R6/1404	KITCHEN	W40/1404	18.17	2.47	97.31%	19.00	5.00	24.00
R7/1404	BEDROOM	W11/1404	25.30	5.46	99.03%	1.00	0.00	1.00
		W75/1404	39.38			33.00	15.00	48.00
R15/1404	BEDROOM	W28/1404	38.92	4.50	100.00%	#N/A	#N/A	#N/A
		W33/1404	13.21			#N/A	#N/A	#N/A
R16/1404	LD	W37/1404	20.28	2.52	96.81%	#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R17/1404	LKD	W32/1404	27.24	4.10	98.68%	#N/A	#N/A	#N/A
		W36/1404	33.14			#N/A	#N/A	#N/A
R18/1404	LKD	W31/1404	34.95	3.85	99.49%	#N/A	#N/A	#N/A
		W35/1404	20.13			#N/A	#N/A	#N/A
R19/1404	BEDROOM	W30/1404	28.53	2.67	96.82%	#N/A	#N/A	#N/A
R20/1404	BEDROOM	W38/1404	22.61	1.99	97.25%	29.00	5.00	34.00
R21/1404	BEDROOM	W39/1404	23.16	2.03	97.25%	29.00	5.00	34.00
R22/1404	BEDROOM	W43/1404	38.82	2.53	90.94%	26.00	20.00	46.00
R23/1404	BEDROOM	W44/1404	39.02	7.11	99.04%	26.00	20.00	46.00
		W45/1404	38.31			20.00	3.00	23.00
R24/1404	BEDROOM	W46/1404	38.17	4.46	96.24%	#N/A	#N/A	#N/A
R25/1404	LIVINGROOM	W47/1404	37.92	9.65	99.73%	#N/A	#N/A	#N/A
		W48/1404	38.17			#N/A	#N/A	#N/A
		W49/1404	38.65			#N/A	#N/A	#N/A
R26/1404	KD	W22/1404	35.83	3.65	98.90%	#N/A	#N/A	#N/A
R28/1404	BEDROOM	W20/1404	38.95	3.80	98.35%	#N/A	#N/A	#N/A
		W21/1404	38.93			#N/A	#N/A	#N/A
R29/1404	BEDROOM	W12/1404	38.97	4.36	98.51%	#N/A	#N/A	#N/A
R32/1404	LKD	W25/1404	38.99	5.51	99.72%	8.00	0.00	8.00
		W60/1404	27.28			23.00	2.00	25.00
R33/1404	LKD	W61/1404	32.13	6.45	99.35%	1.00	0.00	1.00
		W62/1404	38.37			7.00	0.00	7.00
		W63/1404	39.36			33.00	15.00	48.00
		W64/1404	39.41			28.00	10.00	38.00
R34/1404	BEDROOM	W65/1404	39.41	4.32	97.59%	30.00	15.00	45.00
R35/1404	BEDROOM	W66/1404	39.41	4.70	99.17%	30.00	15.00	45.00
R36/1404	BEDROOM	W67/1404	39.41	4.71	99.08%	30.00	15.00	45.00
R37/1404	BEDROOM	W68/1404	39.41	4.45	97.72%	30.00	15.00	45.00
R38/1404	LKD	W69/1404	39.41	4.10	99.86%	28.00	10.00	38.00
		W70/1404	39.37			33.00	15.00	48.00
		W71/1404	22.48			15.00	12.00	27.00
R39/1404	BEDROOM	W9/1404	32.11	3.54	99.39%	25.00	15.00	40.00
R40/1404	BEDROOM	W10/1404	32.12	4.21	94.86%	28.00	7.00	35.00
R42/1404	BEDROOM	W1/1404	39.43	2.47	95.99%	28.00	10.00	38.00
R43/1404	LIVINGROOM	W2/1404	39.43	7.46	99.44%	28.00	10.00	38.00
		W3/1404	39.43			30.00	15.00	45.00
		W5/1404	39.61			40.00	24.00	64.00
<b>T4 - BLOCK A</b>								
<b>Gnd Floor</b>								
R1/1500	KD	W2/1500	36.73	3.81	96.58%	24.00	7.00	31.00
		W34/1500	31.13			6.00	0.00	6.00
R2/1500	KD	W43/1500	29.44	2.64	84.72%	#N/A	#N/A	#N/A
R3/1500	KD	W44/1500	27.82	2.50	69.95%	#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R4/1500	KD	W45/1500	26.76	2.41	57.93%	#N/A	#N/A	#N/A
R5/1500	LIVINGROOM	W7/1500	34.11	4.47	99.10%	38.00	22.00	60.00
		W8/1500	34.67			25.00	18.00	43.00
R6/1500	LIVINGROOM	W9/1500	34.11	4.52	99.16%	38.00	22.00	60.00
		W10/1500	34.72			25.00	18.00	43.00
R7/1500	LIVINGROOM	W11/1500	34.04	4.52	99.23%	38.00	22.00	60.00
		W12/1500	34.70			25.00	19.00	44.00
R8/1500	LIVINGROOM	W13/1500	33.91	4.50	98.38%	38.00	22.00	60.00
		W14/1500	34.62			25.00	18.00	43.00
<b>1st Floor</b>								
R1/1501	BEDROOM	W1/1501	37.75	3.19	98.40%	22.00	7.00	29.00
		W14/1501	37.53			25.00	20.00	45.00
R2/1501	BEDROOM	W2/1501	37.74	4.57	98.67%	22.00	7.00	29.00
		W3/1501	33.42			6.00	0.00	6.00
R3/1501	BEDROOM	W4/1501	28.41	3.69	98.60%	1.00	0.00	1.00
		W5/1501	32.21			#N/A	#N/A	#N/A
R4/1501	BEDROOM	W6/1501	27.19	3.53	98.60%	#N/A	#N/A	#N/A
		W7/1501	30.99			#N/A	#N/A	#N/A
R5/1501	BEDROOM	W8/1501	26.19	3.49	98.54%	#N/A	#N/A	#N/A
		W9/1501	30.16			#N/A	#N/A	#N/A
R6/1501	BEDROOM	W10/1501	28.27			#N/A	#N/A	#N/A
R7/1501	BEDROOM	W11/1501	37.27	2.09	97.40%	25.00	20.00	45.00
R8/1501	BEDROOM	W12/1501	37.37	2.10	97.16%	25.00	19.00	44.00
R8/1501	BEDROOM	W13/1501	37.45	2.10	97.16%	25.00	19.00	44.00
<b>2nd Floor</b>								
R1/1502	BEDROOM	W1/1502	38.53	3.09	97.13%	22.00	8.00	30.00
		W2/1502	38.37			32.00	14.00	46.00
		W3/1502	35.29			1.00	0.00	1.00
R2/1502	BEDROOM	W4/1502	27.47	2.20	83.92%	31.00	6.00	37.00
		W5/1502	34.52			1.00	0.00	1.00
R3/1502	BEDROOM	W6/1502	27.34	2.17	86.92%	31.00	6.00	37.00
		W7/1502	33.64			1.00	0.00	1.00
R4/1502	BEDROOM	W8/1502	27.08	2.13	89.35%	31.00	6.00	37.00
		W9/1502	33.08			1.00	0.00	1.00
<b>T4 - BLOCK B</b>								
<b>Gnd Floor</b>								
R9/1500	KD	W30/1500	26.29	2.36	52.92%	#N/A	#N/A	#N/A
R10/1500	KD	W31/1500	26.33	2.36	55.68%	#N/A	#N/A	#N/A
R11/1500	KD	W32/1500	26.68	2.39	66.69%	#N/A	#N/A	#N/A
R12/1500	KD	W33/1500	27.26	2.44	81.47%	#N/A	#N/A	#N/A
R13/1500	LIVINGROOM	W21/1500	34.34	4.47	99.10%	38.00	22.00	60.00
		W22/1500	34.71			25.00	19.00	44.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
R14/1500	LIVINGROOM	W23/1500	34.56	4.54	99.16%	38.00	22.00	60.00
		W24/1500	34.92			25.00	18.00	43.00
R15/1500	LIVINGROOM	W25/1500	34.64	4.56	99.23%	38.00	22.00	60.00
		W26/1500	34.98			25.00	18.00	43.00
R16/1500	LIVINGROOM	W27/1500	34.54	4.55	98.38%	38.00	22.00	60.00
		W28/1500	34.87			25.00	19.00	44.00
<b>1st Floor</b>								
R9/1501	BEDROOM	W28/1501	37.01	2.08	95.68%	25.00	19.00	44.00
R10/1501	BEDROOM	W17/1501	29.64	3.43	98.60%	#N/A	#N/A	#N/A
		W18/1501	25.24			#N/A	#N/A	#N/A
R11/1501	BEDROOM	W19/1501	29.66	3.44	98.60%	#N/A	#N/A	#N/A
		W20/1501	25.34			#N/A	#N/A	#N/A
R12/1501	BEDROOM	W21/1501	29.91	3.45	98.60%	#N/A	#N/A	#N/A
		W22/1501	25.73			#N/A	#N/A	#N/A
R13/1501	BEDROOM	W23/1501	30.47	3.56	98.54%	#N/A	#N/A	#N/A
		W24/1501	29.12			#N/A	#N/A	#N/A
R14/1501	BEDROOM	W25/1501	36.58	2.05	97.40%	25.00	19.00	44.00
R15/1501	BEDROOM	W26/1501	36.73	2.06	97.16%	25.00	20.00	45.00
R16/1501	BEDROOM	W27/1501	36.83	2.07	97.16%	25.00	20.00	45.00
<b>2nd Floor</b>								
R5/1502	BEDROOM	W11/1502	31.70	2.25	90.34%	34.00	10.00	44.00
		W12/1502	32.84			0.00	0.00	0.00
R6/1502	BEDROOM	W13/1502	26.48	2.15	90.71%	33.00	7.00	40.00
		W14/1502	32.86			0.00	0.00	0.00
R7/1502	BEDROOM	W15/1502	26.34	2.15	92.79%	33.00	7.00	40.00
		W16/1502	33.09			0.00	0.00	0.00
R8/1502	BEDROOM	W17/1502	26.27	2.15	95.58%	33.00	7.00	40.00
		W18/1502	33.49			0.00	0.00	0.00
<b>T4 - BLOCK C</b>								
<b>Gnd Floor</b>								
R17/1500	LIVINGROOM	W41/1500	34.26	4.50	98.38%	38.00	22.00	60.00
		W42/1500	34.54			25.00	18.00	43.00
R18/1500	KD	W18/1500	28.43	2.53	94.82%	#N/A	#N/A	#N/A
R19/1500	KD	W19/1500	28.68	2.57	98.75%	#N/A	#N/A	#N/A
R20/1500	KD	W20/1500	28.62	2.56	98.83%	#N/A	#N/A	#N/A
R21/1500	KD	W29/1500	28.31	2.54	93.99%	#N/A	#N/A	#N/A
R22/1500	LIVINGROOM	W35/1500	34.23	4.45	99.10%	38.00	22.00	60.00
		W36/1500	34.46			25.00	18.00	43.00
R23/1500	LIVINGROOM	W37/1500	34.16	4.49	99.16%	38.00	22.00	60.00
		W38/1500	34.48			25.00	19.00	44.00
R24/1500	LIVINGROOM	W39/1500	34.26	4.50	99.23%	38.00	23.00	61.00
		W40/1500	34.60			25.00	19.00	44.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
<b>1st Floor</b>								
R17/1501	BEDROOM	W42/1501	36.52	2.04	95.68%	25.00	20.00	45.00
R18/1501	BEDROOM	W31/1501	31.41	3.65	98.60%	#N/A	#N/A	#N/A
		W32/1501	27.07			#N/A	#N/A	#N/A
R19/1501	BEDROOM	W33/1501	31.65	3.67	98.60%	#N/A	#N/A	#N/A
		W34/1501	27.19			#N/A	#N/A	#N/A
R20/1501	BEDROOM	W35/1501	31.60	3.63	98.60%	#N/A	#N/A	#N/A
		W36/1501	27.10			#N/A	#N/A	#N/A
R21/1501	BEDROOM	W37/1501	31.35	3.64	98.54%	#N/A	#N/A	#N/A
		W38/1501	29.24			#N/A	#N/A	#N/A
R22/1501	BEDROOM	W39/1501	36.44	2.04	97.40%	25.00	20.00	45.00
R23/1501	BEDROOM	W40/1501	36.45	2.04	97.16%	25.00	19.00	44.00
R24/1501	BEDROOM	W41/1501	36.53	2.05	97.16%	25.00	19.00	44.00
<b>2nd Floor</b>								
R9/1502	BEDROOM	W20/1502	31.24	2.29	96.39%	32.00	9.00	41.00
		W21/1502	34.14			0.00	0.00	0.00
R10/1502	BEDROOM	W22/1502	26.23	2.18	96.39%	31.00	6.00	37.00
		W23/1502	34.29			0.00	0.00	0.00
R11/1502	BEDROOM	W24/1502	26.33	2.18	96.39%	31.00	6.00	37.00
		W25/1502	34.27			0.00	0.00	0.00
R12/1502	BEDROOM	W26/1502	26.46	2.16	93.04%	31.00	6.00	37.00
		W27/1502	34.10			0.00	0.00	0.00
<b>T4 - BLOCK D</b>								
<b>Gnd Floor</b>								
R25/1500	LIVINGROOM	W55/1500	34.26	4.50	98.38%	38.00	23.00	61.00
		W56/1500	34.60			25.00	19.00	44.00
R26/1500	KD	W6/1500	27.29	2.44	77.13%	#N/A	#N/A	#N/A
R27/1500	KD	W15/1500	26.54	2.37	65.94%	#N/A	#N/A	#N/A
R28/1500	KD	W16/1500	26.16	2.34	62.27%	#N/A	#N/A	#N/A
R29/1500	KD	W17/1500	26.01	2.34	71.20%	#N/A	#N/A	#N/A
R30/1500	LIVINGROOM	W49/1500	34.33	4.47	99.10%	38.00	23.00	61.00
		W50/1500	34.65			25.00	19.00	44.00
R31/1500	LIVINGROOM	W51/1500	34.30	4.51	99.16%	38.00	22.00	60.00
		W52/1500	34.58			25.00	18.00	43.00
R32/1500	LIVINGROOM	W53/1500	34.24	4.50	99.23%	38.00	22.00	60.00
		W54/1500	34.52			25.00	18.00	43.00
<b>1st Floor</b>								
R25/1501	BEDROOM	W56/1501	36.52	2.05	95.68%	25.00	19.00	44.00
R26/1501	BEDROOM	W45/1501	30.44	3.52	98.60%	#N/A	#N/A	#N/A
		W46/1501	25.71			#N/A	#N/A	#N/A
R27/1501	BEDROOM	W47/1501	29.84	3.46	98.60%	#N/A	#N/A	#N/A
		W48/1501	25.30			#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
R28/1501	BEDROOM	W49/1501	29.57	3.40	98.60%	#N/A	#N/A	#N/A
		W50/1501	25.19			#N/A	#N/A	#N/A
R29/1501	BEDROOM	W51/1501	29.59	3.45	98.54%	#N/A	#N/A	#N/A
		W52/1501	28.06			#N/A	#N/A	#N/A
R30/1501	BEDROOM	W53/1501	36.54	2.05	97.40%	25.00	19.00	44.00
R31/1501	BEDROOM	W54/1501	36.49	2.05	97.16%	25.00	20.00	45.00
R32/1501	BEDROOM	W55/1501	36.46	2.05	97.16%	25.00	19.00	44.00
<b>2nd Floor</b>								
R13/1502	BEDROOM	W29/1502	31.27	2.26	91.56%	32.00	9.00	41.00
		W30/1502	33.51			1.00	0.00	1.00
R14/1502	BEDROOM	W31/1502	26.57	2.15	92.42%	31.00	6.00	37.00
		W32/1502	33.16			1.00	0.00	1.00
R15/1502	BEDROOM	W33/1502	26.53	2.14	90.40%	31.00	6.00	37.00
		W34/1502	33.05			1.00	0.00	1.00
R16/1502	BEDROOM	W35/1502	26.48	2.12	91.65%	31.00	6.00	37.00
		W36/1502	33.08			0.00	0.00	0.00
<b>T4 - BLOCK E</b>								
<b>Gnd Floor</b>								
R33/1500	LIVINGROOM	W69/1500	34.31	4.51	98.38%	38.00	22.00	60.00
		W70/1500	34.58			25.00	18.00	43.00
R34/1500	KD	W5/1500	26.48	2.38	87.31%	#N/A	#N/A	#N/A
R35/1500	KD	W4/1500	26.64	2.40	96.74%	#N/A	#N/A	#N/A
R36/1500	KD	W3/1500	26.52	2.39	90.23%	#N/A	#N/A	#N/A
R37/1500	KD	W1/1500	26.21	2.36	76.63%	#N/A	#N/A	#N/A
R38/1500	LIVINGROOM	W63/1500	34.41	4.48	99.10%	38.00	22.00	60.00
		W64/1500	34.67			25.00	18.00	43.00
R39/1500	LIVINGROOM	W65/1500	34.42	4.53	99.16%	38.00	23.00	61.00
		W66/1500	34.72			25.00	19.00	44.00
R40/1500	LIVINGROOM	W67/1500	34.46	4.53	99.23%	38.00	23.00	61.00
		W68/1500	34.66			25.00	18.00	43.00
<b>1st Floor</b>								
R33/1501	BEDROOM	W70/1501	36.51	2.05	95.68%	25.00	19.00	44.00
R34/1501	BEDROOM	W59/1501	29.99	3.49	98.60%	#N/A	#N/A	#N/A
		W60/1501	25.68			#N/A	#N/A	#N/A
R35/1501	BEDROOM	W61/1501	30.17	3.49	98.60%	#N/A	#N/A	#N/A
		W62/1501	25.71			#N/A	#N/A	#N/A
R36/1501	BEDROOM	W63/1501	30.11	3.45	98.60%	#N/A	#N/A	#N/A
		W64/1501	25.53			#N/A	#N/A	#N/A
R37/1501	BEDROOM	W65/1501	29.87	3.47	98.54%	#N/A	#N/A	#N/A
		W66/1501	28.23			#N/A	#N/A	#N/A
R38/1501	BEDROOM	W67/1501	36.55	2.05	97.40%	25.00	19.00	44.00
R39/1501	BEDROOM	W68/1501	36.57	2.05	97.16%	25.00	19.00	44.00
R40/1501	BEDROOM	W69/1501	36.53	2.05	97.16%	25.00	20.00	45.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
<b>2nd Floor</b>								
R17/1502	BEDROOM	W37/1502	31.32	2.26	96.39%	32.00	9.00	41.00
		W38/1502	33.38			0.00	0.00	0.00
R18/1502	BEDROOM	W39/1502	26.37	2.15	95.48%	31.00	6.00	37.00
		W40/1502	33.49			0.00	0.00	0.00
R19/1502	BEDROOM	W41/1502	26.39	2.15	91.20%	31.00	6.00	37.00
		W42/1502	33.44			0.00	0.00	0.00
R20/1502	BEDROOM	W43/1502	26.42	2.12	89.84%	31.00	6.00	37.00
		W44/1502	33.33			0.00	0.00	0.00
<b>T3</b>								
<b>Gnd Floor</b>								
R1/1600	KD	W1/1600	26.35	2.36	60.68%	#N/A	#N/A	#N/A
R2/1600	KD	W2/1600	26.81	2.41	65.78%	#N/A	#N/A	#N/A
R3/1600	KD	W3/1600	27.77	2.49	77.63%	#N/A	#N/A	#N/A
R4/1600	KD	W4/1600	28.93	2.60	91.15%	#N/A	#N/A	#N/A
R5/1600	KD	W5/1600	29.97	2.67	97.58%	#N/A	#N/A	#N/A
R6/1600	KD	W6/1600	30.65	2.73	98.83%	#N/A	#N/A	#N/A
R7/1600	LIVINGROOM	W7/1600	33.12	4.48	99.10%	38.00	22.00	60.00
		W8/1600	34.26			25.00	19.00	44.00
R8/1600	LIVINGROOM	W9/1600	34.39	4.55	99.16%	38.00	23.00	61.00
		W10/1600	34.78			25.00	19.00	44.00
R9/1600	LIVINGROOM	W11/1600	34.59	4.51	99.10%	38.00	23.00	61.00
		W12/1600	34.79			25.00	19.00	44.00
R10/1600	LIVINGROOM	W13/1600	34.48	4.54	99.16%	38.00	22.00	60.00
		W14/1600	34.74			25.00	19.00	44.00
R11/1600	LIVINGROOM	W15/1600	34.49	4.54	99.23%	38.00	22.00	60.00
		W16/1600	34.80			25.00	19.00	44.00
R12/1600	LIVINGROOM	W17/1600	34.53	4.54	98.38%	38.00	23.00	61.00
		W18/1600	34.78			25.00	19.00	44.00
<b>1st Floor</b>								
R1/1601	BEDROOM	W18/1601	36.62	2.06	95.68%	25.00	20.00	45.00
R2/1601	BEDROOM	W1/1601	29.98	3.47	98.60%	#N/A	#N/A	#N/A
		W2/1601	25.65			#N/A	#N/A	#N/A
R3/1601	BEDROOM	W3/1601	30.41	3.52	98.60%	#N/A	#N/A	#N/A
		W4/1601	26.21			#N/A	#N/A	#N/A
R4/1601	BEDROOM	W5/1601	31.21	3.59	98.60%	#N/A	#N/A	#N/A
		W6/1601	27.14			#N/A	#N/A	#N/A
R5/1601	BEDROOM	W7/1601	32.36	3.68	98.47%	#N/A	#N/A	#N/A
		W8/1601	28.28			#N/A	#N/A	#N/A
R6/1601	BEDROOM	W9/1601	33.11	3.78	98.31%	#N/A	#N/A	#N/A
		W10/1601	28.82			#N/A	#N/A	#N/A
R7/1601	BEDROOM	W11/1601	33.59	3.89	98.54%	#N/A	#N/A	#N/A
		W12/1601	32.16			#N/A	#N/A	#N/A

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R8/1601	BEDROOM	W13/1601	36.34	2.06	97.40%	25.00	20.00	45.00
R9/1601	BEDROOM	W14/1601	36.59	2.04	97.16%	25.00	19.00	44.00
R10/1601	BEDROOM	W15/1601	36.61	2.06	97.40%	25.00	20.00	45.00
R11/1601	BEDROOM	W16/1601	36.59	2.06	97.16%	25.00	20.00	45.00
R12/1601	BEDROOM	W17/1601	36.61	2.06	97.16%	25.00	19.00	44.00
<b>2nd Floor</b>								
R1/1602	BEDROOM	W1/1602	31.44	2.26	92.30%	35.00	10.00	45.00
		W2/1602	33.47			0.00	0.00	0.00
R2/1602	BEDROOM	W3/1602	26.36	2.17	90.89%	34.00	7.00	41.00
		W4/1602	33.87			0.00	0.00	0.00
R3/1602	BEDROOM	W5/1602	26.34	2.18	94.50%	34.00	7.00	41.00
		W6/1602	34.42			0.00	0.00	0.00
R4/1602	BEDROOM	W7/1602	26.32	2.19	95.83%	34.00	7.00	41.00
		W8/1602	35.30			0.00	0.00	0.00
R5/1602	BEDROOM	W9/1602	26.32	2.22	96.39%	34.00	7.00	41.00
		W10/1602	35.83			0.00	0.00	0.00
R6/1602	BEDROOM	W11/1602	26.37	2.22	96.13%	34.00	7.00	41.00
		W12/1602	36.20			0.00	0.00	0.00
<b>T2</b>								
<b>Gnd Floor</b>								
R1/1700	BEDROOM	W1/1700	31.25	1.58	90.71%	#N/A	#N/A	#N/A
R2/1700	BEDROOM	W2/1700	31.69	1.61	92.93%	#N/A	#N/A	#N/A
R3/1700	BEDROOM	W3/1700	32.85	1.67	94.19%	#N/A	#N/A	#N/A
R4/1700	BEDROOM	W4/1700	33.59	1.71	94.19%	#N/A	#N/A	#N/A
R5/1700	BEDROOM	W5/1700	34.19	1.74	94.19%	#N/A	#N/A	#N/A
R6/1700	KD	W6/1700	34.87	6.10	99.09%	#N/A	#N/A	#N/A
		W7/1700	31.35			#N/A	#N/A	#N/A
		W8/1700	33.20			#N/A	#N/A	#N/A
R7/1700	LIVINGROOM	W9/1700	32.52	6.89	99.93%	17.00	1.00	18.00
		W10/1700	34.75			39.00	22.00	61.00
		W11/1700	35.09			19.00	18.00	37.00
R8/1700	KD	W12/1700	34.60	3.92	98.20%	39.00	24.00	63.00
		W13/1700	35.01			19.00	20.00	39.00
R9/1700	KD	W14/1700	34.61	3.93	98.25%	39.00	24.00	63.00
		W15/1700	34.97			19.00	20.00	39.00
R10/1700	KD	W16/1700	34.45	3.91	98.25%	39.00	23.00	62.00
		W17/1700	34.79			19.00	19.00	38.00
R11/1700	KD	W18/1700	34.34	3.90	98.25%	39.00	23.00	62.00
		W19/1700	34.75			19.00	19.00	38.00
R12/1700	KD	W20/1700	34.38	3.90	98.25%	39.00	23.00	62.00
		W21/1700	34.82			19.00	19.00	38.00



Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
<b>1st Floor</b>								
R1/1701	BEDROOM	W1/1701	34.13	3.63	97.62%	#N/A	#N/A	#N/A
		W2/1701	27.02			#N/A	#N/A	#N/A
R2/1701	BEDROOM	W3/1701	34.51	3.68	98.30%	#N/A	#N/A	#N/A
		W4/1701	27.75			#N/A	#N/A	#N/A
R3/1701	BEDROOM	W5/1701	35.42	3.76	98.64%	#N/A	#N/A	#N/A
		W6/1701	28.47			#N/A	#N/A	#N/A
R4/1701	BEDROOM	W7/1701	36.00	3.81	98.71%	#N/A	#N/A	#N/A
		W8/1701	28.96			#N/A	#N/A	#N/A
R5/1701	BEDROOM	W9/1701	36.45	3.87	98.64%	#N/A	#N/A	#N/A
		W10/1701	29.32			#N/A	#N/A	#N/A
R6/1701	BEDROOM	W11/1701	36.81	6.64	99.03%	#N/A	#N/A	#N/A
		W12/1701	32.94			#N/A	#N/A	#N/A
		W13/1701	35.90			#N/A	#N/A	#N/A
R7/1701	BEDROOM	W14/1701	35.53	5.45	99.71%	18.00	3.00	21.00
		W15/1701	36.67			25.00	19.00	44.00
		W16/1701	36.64			25.00	20.00	45.00
R8/1701	BEDROOM	W17/1701	36.62	2.67	96.51%	25.00	20.00	45.00
		W18/1701	36.63			25.00	20.00	45.00
R9/1701	BEDROOM	W19/1701	36.63	2.66	96.51%	25.00	20.00	45.00
		W20/1701	36.62			25.00	20.00	45.00
R10/1701	BEDROOM	W21/1701	36.57	2.65	96.51%	25.00	20.00	45.00
		W22/1701	36.53			25.00	20.00	45.00
R11/1701	BEDROOM	W23/1701	36.52	2.65	96.51%	25.00	19.00	44.00
		W24/1701	36.52			25.00	19.00	44.00
R12/1701	BEDROOM	W25/1701	36.54	2.65	96.51%	25.00	19.00	44.00
		W26/1701	36.58			25.00	20.00	45.00
<b>2nd Floor</b>								
R1/1702	BEDROOM	W19/1702	83.52	3.44	100.00%	37.00	20.00	57.00
R2/1702	BEDROOM	W1/1702	32.57	2.47	97.01%	32.00	10.00	42.00
		W2/1702	36.62			0.00	0.00	0.00
R3/1702	BEDROOM	W3/1702	23.34	2.26	96.38%	28.00	5.00	33.00
		W4/1702	36.98			0.00	0.00	0.00
R4/1702	BEDROOM	W5/1702	23.44	1.19	89.78%	0.00	0.00	0.00
		W6/1702	37.53			1.00	0.00	1.00
R5/1702	BEDROOM	W7/1702	23.54	2.29	96.95%	28.00	5.00	33.00
		W8/1702	37.87			1.00	0.00	1.00
R6/1702	BEDROOM	W9/1702	23.65	2.30	97.01%	28.00	5.00	33.00
		W10/1702	38.13			1.00	0.00	1.00
R7/1702	BEDROOM	W11/1702	23.74	3.52	98.84%	28.00	5.00	33.00
		W12/1702	38.26			1.00	0.00	1.00
R8/1702	BEDROOM	W13/1702	38.76	5.10	100.00%	13.00	0.00	13.00
		W14/1702	83.46			37.00	20.00	57.00

Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
R9/1702	BEDROOM	W15/1702	83.49	3.44	100.00%	37.00	20.00	57.00
R10/1702	BEDROOM	W16/1702	83.50	3.44	100.00%	37.00	20.00	57.00
R11/1702	BEDROOM	W17/1702	83.51	3.44	86.01%	37.00	20.00	57.00
R12/1702	BEDROOM	W18/1702	83.52	3.44	87.36%	37.00	20.00	57.00
<b>T1</b>								
<b>Gnd Floor</b>								
R1/1800	KD	W1/1800	26.98	3.07	97.44%	12.00	7.00	19.00
		W2/1800	25.33			21.00	12.00	33.00
R2/1800	KD	W3/1800	24.45	2.98	97.77%	20.00	11.00	31.00
		W4/1800	24.71			12.00	4.00	16.00
R3/1800	KD	W5/1800	24.57	2.95	97.91%	13.00	4.00	17.00
		W6/1800	24.40			22.00	8.00	30.00
R4/1800	KD	W7/1800	25.33	3.08	98.17%	24.00	7.00	31.00
		W8/1800	26.42			17.00	2.00	19.00
R5/1800	KD	W9/1800	26.67	3.17	98.17%	17.00	2.00	19.00
		W10/1800	26.35			26.00	4.00	30.00
R6/1800	KD	W11/1800	26.50	3.19	98.23%	27.00	5.00	32.00
		W12/1800	27.01			18.00	4.00	22.00
R7/1800	KD	W13/1800	26.85	3.15	98.23%	17.00	4.00	21.00
		W14/1800	26.08			24.00	7.00	31.00
R8/1800	KD	W15/1800	25.55	3.06	98.17%	23.00	8.00	31.00
		W16/1800	25.57			14.00	5.00	19.00
R9/1800	KD	W17/1800	24.74	2.86	95.94%	12.00	5.00	17.00
		W18/1800	23.53			18.00	8.00	26.00
R10/1800	KD	W19/1800	22.90	2.73	97.91%	16.00	9.00	25.00
		W20/1800	23.03			8.00	4.00	12.00
R11/1800	KD	W21/1800	22.95	2.75	97.71%	9.00	4.00	13.00
		W22/1800	22.96			19.00	6.00	25.00
R12/1800	KD	W23/1800	23.98	2.88	98.14%	21.00	6.00	27.00
		W24/1800	25.77			16.00	2.00	18.00
R13/1800	BEDROOM	W25/1800	34.48	2.08	95.79%	#N/A	#N/A	#N/A
R14/1800	BEDROOM	W26/1800	34.03	2.03	95.45%	#N/A	#N/A	#N/A
R15/1800	BEDROOM	W27/1800	34.07	2.08	95.79%	#N/A	#N/A	#N/A
R16/1800	BEDROOM	W28/1800	34.11	2.03	95.45%	#N/A	#N/A	#N/A
R17/1800	BEDROOM	W29/1800	34.10	2.08	95.79%	#N/A	#N/A	#N/A
R18/1800	BEDROOM	W30/1800	34.07	2.03	95.45%	#N/A	#N/A	#N/A
R19/1800	BEDROOM	W31/1800	34.02	2.09	96.65%	#N/A	#N/A	#N/A
R20/1800	BEDROOM	W32/1800	33.92	2.03	95.45%	#N/A	#N/A	#N/A
R21/1800	BEDROOM	W33/1800	33.82	2.08	95.79%	#N/A	#N/A	#N/A
R22/1800	BEDROOM	W34/1800	33.62	2.02	95.69%	#N/A	#N/A	#N/A
R23/1800	BEDROOM	W35/1800	33.46	2.07	95.79%	#N/A	#N/A	#N/A
R24/1800	BEDROOM	W36/1800	33.49	2.02	95.45%	#N/A	#N/A	#N/A

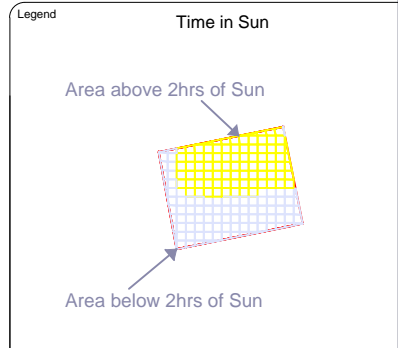
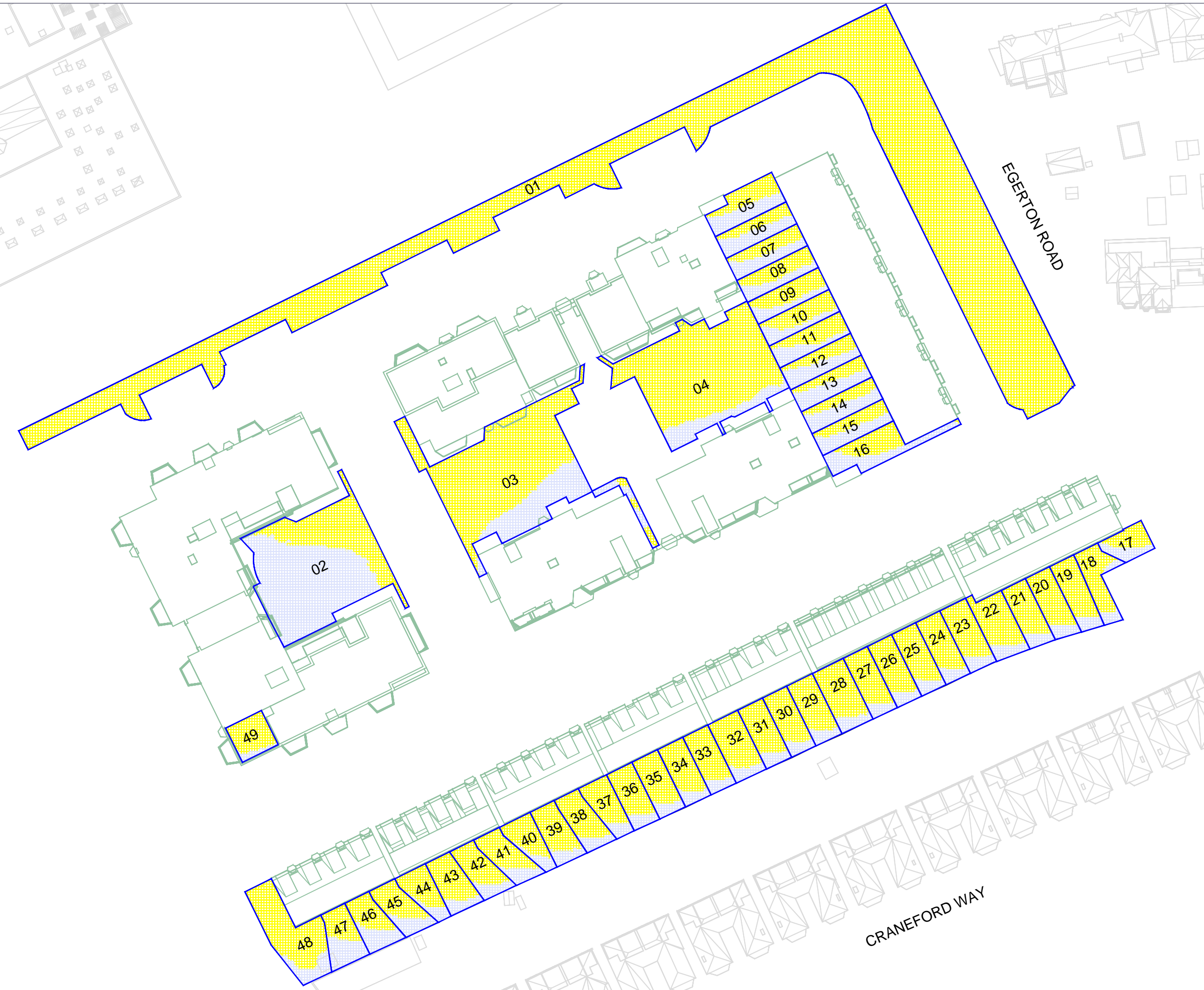
Room/Floor	Room Use	Window			No Sky	%Sun		
			%VSC	%ADF	% of Room	Summer	Winter	Total
<b>1st Floor</b>								
R1/1801	BEDROOM	W1/1801	30.33	4.34	98.47%	19.00	8.00	27.00
		W2/1801	29.49			20.00	13.00	33.00
R2/1801	BEDROOM	W3/1801	28.54	4.23	98.82%	20.00	12.00	32.00
		W4/1801	28.11			21.00	4.00	25.00
R3/1801	BEDROOM	W5/1801	27.92	4.18	99.02%	21.00	4.00	25.00
		W6/1801	28.20			22.00	8.00	30.00
R4/1801	BEDROOM	W7/1801	28.87	4.21	98.47%	24.00	10.00	34.00
		W8/1801	29.30			24.00	4.00	28.00
R5/1801	BEDROOM	W9/1801	29.51	4.39	98.82%	24.00	4.00	28.00
		W10/1801	29.67			24.00	9.00	33.00
R6/1801	BEDROOM	W11/1801	29.78	4.32	98.76%	23.00	10.00	33.00
		W12/1801	29.72			22.00	5.00	27.00
R7/1801	BEDROOM	W13/1801	29.52	4.35	98.82%	21.00	6.00	27.00
		W14/1801	29.22			22.00	9.00	31.00
R8/1801	BEDROOM	W15/1801	28.67	4.13	98.76%	19.00	9.00	28.00
		W16/1801	28.17			17.00	7.00	24.00
R9/1801	BEDROOM	W17/1801	27.36	4.00	98.63%	16.00	7.00	23.00
		W18/1801	26.69			16.00	10.00	26.00
R10/1801	BEDROOM	W19/1801	26.06	3.75	98.76%	15.00	11.00	26.00
		W20/1801	25.71			14.00	5.00	19.00
R11/1801	BEDROOM	W21/1801	25.61	3.86	98.82%	17.00	4.00	21.00
		W22/1801	26.16			19.00	8.00	27.00
R12/1801	BEDROOM	W23/1801	27.09	3.98	98.47%	21.00	8.00	29.00
		W24/1801	28.15			22.00	3.00	25.00
R13/1801	LIVINGROOM	W25/1801	36.93	7.40	99.80%	0.00	0.00	0.00
		W26/1801	27.21			0.00	0.00	0.00
		W27/1801	38.41			27.00	6.00	33.00
		W28/1801	20.11			26.00	9.00	35.00
		W29/1801	37.04			13.00	0.00	13.00
R14/1801	LIVINGROOM	W30/1801	37.02	5.94	99.33%	13.00	0.00	13.00
		W31/1801	20.23			0.00	0.00	0.00
		W32/1801	38.42			27.00	6.00	33.00
		W33/1801	14.22			23.00	4.00	27.00
R15/1801	LIVINGROOM	W34/1801	14.09	4.58	94.82%	0.00	0.00	0.00
		W35/1801	38.43			27.00	6.00	33.00
		W36/1801	20.08			26.00	9.00	35.00
R16/1801	LIVINGROOM	W38/1801	37.04	5.95	99.33%	13.00	0.00	13.00
		W39/1801	20.03			0.00	0.00	0.00
		W40/1801	38.44			27.00	6.00	33.00
		W41/1801	13.94			23.00	4.00	27.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
R17/1801	LIVINGROOM	W42/1801	14.31	5.96	99.33%	0.00	0.00	0.00
		W43/1801	38.44			27.00	6.00	33.00
		W44/1801	19.98			26.00	9.00	35.00
		W45/1801	37.02			13.00	0.00	13.00
R18/1801	LIVINGROOM	W46/1801	37.06	5.94	99.33%	13.00	0.00	13.00
		W47/1801	20.05			0.00	0.00	0.00
		W48/1801	38.43			27.00	6.00	33.00
		W49/1801	14.16			23.00	4.00	27.00
R19/1801	LIVINGROOM	W50/1801	14.09	5.93	99.33%	0.00	0.00	0.00
		W51/1801	38.40			27.00	6.00	33.00
		W52/1801	19.82			26.00	9.00	35.00
		W53/1801	36.98			13.00	0.00	13.00
R20/1801	LIVINGROOM	W54/1801	37.03	5.93	99.33%	13.00	0.00	13.00
		W55/1801	20.10			0.00	0.00	0.00
		W56/1801	38.34			27.00	6.00	33.00
		W57/1801	14.13			23.00	4.00	27.00
R21/1801	LIVINGROOM	W58/1801	14.11	5.91	99.33%	0.00	0.00	0.00
		W59/1801	38.29			27.00	6.00	33.00
		W60/1801	19.59			26.00	9.00	35.00
		W61/1801	36.83			13.00	0.00	13.00
R22/1801	LIVINGROOM	W62/1801	36.92	5.91	99.33%	13.00	0.00	13.00
		W63/1801	20.02			0.00	0.00	0.00
		W64/1801	38.14			27.00	6.00	33.00
		W65/1801	14.00			23.00	4.00	27.00
R23/1801	LIVINGROOM	W66/1801	14.13	5.88	99.33%	0.00	0.00	0.00
		W67/1801	38.06			27.00	6.00	33.00
		W68/1801	19.30			26.00	8.00	34.00
		W69/1801	36.59			13.00	0.00	13.00
R24/1801	LIVINGROOM	W70/1801	36.76	6.00	99.21%	13.00	0.00	13.00
		W71/1801	20.15			0.00	0.00	0.00
		W72/1801	37.79			27.00	5.00	32.00
		W73/1801	24.59			30.00	13.00	43.00
		W74/1801	0.00			0.00	0.00	0.00
<b>2nd Floor</b>								
R1/1802	BEDROOM	W1/1802	33.78	4.33	98.89%	23.00	8.00	31.00
		W2/1802	33.17			25.00	13.00	38.00
		W52/1802	0.00			0.00	0.00	0.00
R2/1802	BEDROOM	W3/1802	32.47	4.28	98.86%	25.00	12.00	37.00
		W4/1802	32.13			26.00	7.00	33.00
R3/1802	BEDROOM	W5/1802	31.90	4.16	98.80%	26.00	5.00	31.00
		W6/1802	32.03			27.00	10.00	37.00
R4/1802	BEDROOM	W7/1802	32.41	4.30	99.03%	27.00	12.00	39.00
		W8/1802	32.65			26.00	7.00	33.00

Room/Floor	Room Use	Window			No Sky % of Room	%Sun		
			%VSC	%ADF		Summer	Winter	Total
R5/1802	BEDROOM	W9/1802	32.76	4.26	98.89%	26.00	7.00	33.00
		W10/1802	32.84			26.00	12.00	38.00
R6/1802	BEDROOM	W11/1802	32.86	4.34	98.86%	24.00	12.00	36.00
		W12/1802	32.75			23.00	8.00	31.00
R7/1802	BEDROOM	W13/1802	32.53	4.20	98.89%	22.00	9.00	31.00
		W14/1802	32.21			23.00	14.00	37.00
R8/1802	BEDROOM	W15/1802	31.69	4.17	98.68%	22.00	14.00	36.00
		W16/1802	31.21			20.00	8.00	28.00
R9/1802	BEDROOM	W17/1802	30.49	3.93	98.89%	19.00	8.00	27.00
		W18/1802	29.89			21.00	13.00	34.00
R10/1802	BEDROOM	W19/1802	29.32	3.87	98.42%	21.00	12.00	33.00
		W20/1802	28.98			19.00	6.00	25.00
R11/1802	BEDROOM	W21/1802	28.85	3.80	98.20%	22.00	4.00	26.00
		W22/1802	29.25			25.00	8.00	33.00
R12/1802	BEDROOM	W23/1802	29.98	5.59	99.38%	25.00	8.00	33.00
		W24/1802	30.83			25.00	5.00	30.00
		W25/1802	37.84			0.00	0.00	0.00
R13/1802	BEDROOM	W26/1802	37.98	5.58	99.86%	#N/A	#N/A	#N/A
		W27/1802	39.33			#N/A	#N/A	#N/A
		W28/1802	39.32			#N/A	#N/A	#N/A
R14/1802	BEDROOM	W29/1802	39.32	4.32	99.36%	#N/A	#N/A	#N/A
		W30/1802	39.32			#N/A	#N/A	#N/A
R15/1802	BEDROOM	W31/1802	39.31	4.32	99.36%	#N/A	#N/A	#N/A
		W32/1802	39.32			#N/A	#N/A	#N/A
R16/1802	BEDROOM	W33/1802	39.32	4.32	99.36%	#N/A	#N/A	#N/A
		W34/1802	39.32			#N/A	#N/A	#N/A
R17/1802	BEDROOM	W35/1802	39.32	4.32	99.36%	#N/A	#N/A	#N/A
		W36/1802	39.32			#N/A	#N/A	#N/A
R18/1802	BEDROOM	W37/1802	39.33	4.32	99.36%	#N/A	#N/A	#N/A
		W38/1802	39.33			#N/A	#N/A	#N/A
R19/1802	BEDROOM	W39/1802	39.33	4.32	99.36%	#N/A	#N/A	#N/A
		W40/1802	39.33			#N/A	#N/A	#N/A
R20/1802	BEDROOM	W41/1802	39.32	4.32	99.36%	#N/A	#N/A	#N/A
		W42/1802	39.29			#N/A	#N/A	#N/A
R21/1802	BEDROOM	W43/1802	39.28	4.32	99.36%	#N/A	#N/A	#N/A
		W44/1802	39.26			#N/A	#N/A	#N/A
R22/1802	BEDROOM	W45/1802	39.24	4.32	99.36%	#N/A	#N/A	#N/A
		W46/1802	39.22			#N/A	#N/A	#N/A
R23/1802	BEDROOM	W47/1802	39.19	4.31	99.36%	#N/A	#N/A	#N/A
		W48/1802	39.13			#N/A	#N/A	#N/A
R24/1802	BEDROOM	W49/1802	39.10	4.31	99.36%	13.00	0.00	13.00
		W50/1802	39.04			19.00	3.00	22.00
		W51/1802	0.00			0.00	0.00	0.00

Appendix III

This drawing is Copyright © of GVA Grimley Limited.  
 Do not scale this drawing.  
 All dimensions to be checked on site. Drawing to be read in conjunction with any specifications, schedules and Consultants drawings and details.



Sources of Information

**EXISTING BUILDING**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)

**SURROUNDING BUILDINGS**  
**INFO 13 SEPTEMBER 2018 (Architect)**  
 2018-09-13 - Sunlight Daylight information (1)  
 RESEARCH-COLLEGE BUILDINGS TO THE NORTH

**PROPOSED BUILDING**  
**INFO 5 NOVEMBER 2018**  
 2018-11-05 - Sunlight daylight site model  
 18-103-BPTW-M3-SITE PLAN\_2018-11-05



08449 02 03 04  
 65 Gresham Street, London, EC2V 7NQ  
 www.gva.co.uk

Project Name  
 RICHMOND COLLEGE  
 TWICKENHAM

Client  
 CLARION HOUSING GROUP

Drawing Title  
 TIME IN SUN - PROPOSED  
 21ST MARCH

Drawn By RV	Chk'd By -	Scale @ A3 NTS	Date 23 NOV 2018
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Project No. RI37/03	Drawing No. TIS/35	Revision -
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Time In Sun

A3

### TIME IN SUN ANALYSIS

Start Time: Mar 21 6:00 am, End Time: Mar 21 18:00 pm, Solar Sample Interval: 5 min  
 Solar Angle Cutoff: 10.0 deg, Working Plane: 1.0 mm  
 Sunlight Sample: 5 min, Grid Size: 500.0 mm

#### RICHMOND COLLEGE - TWICKENHAM

Open space area: 01	1717.84 Sq m PROPOSED	Percentage	18490.66 Sq ft
Area between 0.00 and 120.00 mins:	00.00 Sq m	0.00%	
Area over 120.00 mins:	1717.84 Sq m	100.00%	

Open space area: 02	442.16 Sq m PROPOSED	Percentage	4759.42 Sq ft
Area between 0.00 and 120.00 mins:	289.82 Sq m	65.55%	
Area over 120.00 mins:	152.34 Sq m	34.45%	

Open space area: 03	526.80 Sq m PROPOSED	Percentage	5670.37 Sq ft
Area between 0.00 and 120.00 mins:	125.26 Sq m	23.78%	
Area over 120.00 mins:	401.54 Sq m	76.22%	

Open space area: 04	449.71 Sq m PROPOSED	Percentage	4840.62 Sq ft
Area between 0.00 and 120.00 mins:	52.96 Sq m	11.78%	
Area over 120.00 mins:	396.75 Sq m	88.22%	

Open space area: 05	76.25 Sq m PROPOSED	Percentage	820.75 Sq ft
Area between 0.00 and 120.00 mins:	38.88 Sq m	50.98%	
Area over 120.00 mins:	37.37 Sq m	49.02%	

Open space area: 06	62.34 Sq m PROPOSED	Percentage	671.07 Sq ft
Area between 0.00 and 120.00 mins:	35.85 Sq m	57.51%	
Area over 120.00 mins:	26.49 Sq m	42.49%	

Open space area: 07	62.34 Sq m PROPOSED	Percentage	671.05 Sq ft
Area between 0.00 and 120.00 mins:	31.71 Sq m	50.86%	
Area over 120.00 mins:	30.63 Sq m	49.14%	

Open space area: 08	62.34 Sq m PROPOSED	Percentage	671.05 Sq ft
Area between 0.00 and 120.00 mins:	24.09 Sq m	38.64%	
Area over 120.00 mins:	38.25 Sq m	61.36%	



Open space area: 09	62.30 Sq m PROPOSED	Percentage	670.64 Sq ft
Area between 0.00 and 120.00 mins:	20.69 Sq m	33.21%	
Area over 120.00 mins:	41.62 Sq m	66.79%	

Open space area: 10	62.30 Sq m PROPOSED	Percentage	670.60 Sq ft
Area between 0.00 and 120.00 mins:	21.84 Sq m	35.05%	
Area over 120.00 mins:	40.46 Sq m	64.95%	

Open space area: 11	62.30 Sq m PROPOSED	Percentage	670.60 Sq ft
Area between 0.00 and 120.00 mins:	25.52 Sq m	40.96%	
Area over 120.00 mins:	36.78 Sq m	59.04%	

Open space area: 12	62.30 Sq m PROPOSED	Percentage	670.60 Sq ft
Area between 0.00 and 120.00 mins:	34.63 Sq m	55.59%	
Area over 120.00 mins:	27.67 Sq m	44.41%	

Open space area: 13	62.30 Sq m PROPOSED	Percentage	670.60 Sq ft
Area between 0.00 and 120.00 mins:	36.97 Sq m	59.35%	
Area over 120.00 mins:	25.33 Sq m	40.65%	

Open space area: 14	62.30 Sq m PROPOSED	Percentage	670.60 Sq ft
Area between 0.00 and 120.00 mins:	36.86 Sq m	59.16%	
Area over 120.00 mins:	25.44 Sq m	40.84%	

Open space area: 15	62.30 Sq m PROPOSED	Percentage	670.60 Sq ft
Area between 0.00 and 120.00 mins:	33.30 Sq m	53.44%	
Area over 120.00 mins:	29.00 Sq m	46.56%	

Open space area: 16	87.92 Sq m PROPOSED	Percentage	946.37 Sq ft
Area between 0.00 and 120.00 mins:	47.38 Sq m	53.89%	
Area over 120.00 mins:	40.54 Sq m	46.11%	

Open space area: 17	42.51 Sq m PROPOSED	Percentage	457.59 Sq ft
Area between 0.00 and 120.00 mins:	17.80 Sq m	41.87%	
Area over 120.00 mins:	24.71 Sq m	58.13%	

Open space area: 18	60.57 Sq m PROPOSED	Percentage	651.94 Sq ft
Area between 0.00 and 120.00 mins:	12.23 Sq m	20.20%	
Area over 120.00 mins:	48.33 Sq m	79.80%	

Open space area: 19	61.45 Sq m PROPOSED	Percentage	661.43 Sq ft
Area between 0.00 and 120.00 mins:	10.74 Sq m	17.47%	
Area over 120.00 mins:	50.71 Sq m	82.53%	

Open space area: 20	61.33 Sq m PROPOSED	Percentage	660.10 Sq ft
Area between 0.00 and 120.00 mins:	11.42 Sq m	18.62%	
Area over 120.00 mins:	49.91 Sq m	81.38%	

Open space area: 21	58.07 Sq m PROPOSED	Percentage	625.07 Sq ft
Area between 0.00 and 120.00 mins:	11.24 Sq m	19.35%	
Area over 120.00 mins:	46.83 Sq m	80.65%	

Open space area: 22	75.03 Sq m PROPOSED	Percentage	807.59 Sq ft
Area between 0.00 and 120.00 mins:	13.26 Sq m	17.68%	
Area over 120.00 mins:	61.77 Sq m	82.32%	

Open space area: 23	64.99 Sq m PROPOSED	Percentage	699.52 Sq ft
Area between 0.00 and 120.00 mins:	11.11 Sq m	17.10%	
Area over 120.00 mins:	53.88 Sq m	82.90%	

Open space area: 24	60.37 Sq m PROPOSED	Percentage	649.80 Sq ft
Area between 0.00 and 120.00 mins:	10.62 Sq m	17.59%	
Area over 120.00 mins:	49.75 Sq m	82.41%	

Open space area: 25	59.98 Sq m PROPOSED	Percentage	645.62 Sq ft
Area between 0.00 and 120.00 mins:	10.54 Sq m	17.57%	
Area over 120.00 mins:	49.44 Sq m	82.43%	

Open space area: 26	59.53 Sq m PROPOSED	Percentage	640.77 Sq ft
Area between 0.00 and 120.00 mins:	10.63 Sq m	17.85%	
Area over 120.00 mins:	48.90 Sq m	82.15%	

Open space area: 27	59.11 Sq m PROPOSED	Percentage	636.26 Sq ft
Area between 0.00 and 120.00 mins:	10.47 Sq m	17.71%	
Area over 120.00 mins:	48.64 Sq m	82.29%	

Open space area: 28	74.90 Sq m PROPOSED	Percentage	806.17 Sq ft
Area between 0.00 and 120.00 mins:	12.18 Sq m	16.26%	
Area over 120.00 mins:	62.72 Sq m	83.74%	

Open space area: 29	62.09 Sq m PROPOSED	Percentage	668.30 Sq ft
Area between 0.00 and 120.00 mins:	10.87 Sq m	17.50%	
Area over 120.00 mins:	51.22 Sq m	82.50%	

Open space area: 30	57.64 Sq m PROPOSED	Percentage	620.48 Sq ft
Area between 0.00 and 120.00 mins:	10.40 Sq m	18.04%	
Area over 120.00 mins:	47.25 Sq m	81.96%	

Open space area: 31	59.05 Sq m PROPOSED	Percentage	635.57 Sq ft
Area between 0.00 and 120.00 mins:	10.64 Sq m	18.02%	
Area over 120.00 mins:	48.40 Sq m	81.98%	

Open space area: 32	70.30 Sq m PROPOSED	Percentage	756.75 Sq ft
Area between 0.00 and 120.00 mins:	11.89 Sq m	16.91%	
Area over 120.00 mins:	58.41 Sq m	83.09%	

Open space area: 33	58.16 Sq m PROPOSED	Percentage	626.03 Sq ft
Area between 0.00 and 120.00 mins:	10.45 Sq m	17.97%	
Area over 120.00 mins:	47.71 Sq m	82.03%	

Open space area: 34	58.49 Sq m PROPOSED	Percentage	629.60 Sq ft
Area between 0.00 and 120.00 mins:	10.87 Sq m	18.58%	
Area over 120.00 mins:	47.63 Sq m	81.42%	

Open space area: 35	58.50 Sq m PROPOSED	Percentage	629.66 Sq ft
Area between 0.00 and 120.00 mins:	11.07 Sq m	18.93%	
Area over 120.00 mins:	47.42 Sq m	81.07%	

Open space area: 36	57.52 Sq m PROPOSED	Percentage	619.13 Sq ft
Area between 0.00 and 120.00 mins:	10.90 Sq m	18.96%	
Area over 120.00 mins:	46.62 Sq m	81.04%	

Open space area: 37	53.04 Sq m PROPOSED	Percentage	570.91 Sq ft
Area between 0.00 and 120.00 mins:	9.46 Sq m	17.83%	
Area over 120.00 mins:	43.58 Sq m	82.17%	

Open space area: 38	58.91 Sq m PROPOSED	Percentage	634.13 Sq ft
Area between 0.00 and 120.00 mins:	12.50 Sq m	21.22%	
Area over 120.00 mins:	46.41 Sq m	78.78%	

Open space area: 39	58.92 Sq m PROPOSED	Percentage	634.16 Sq ft
Area between 0.00 and 120.00 mins:	11.91 Sq m	20.22%	
Area over 120.00 mins:	47.00 Sq m	79.78%	

Open space area: 40	48.77 Sq m PROPOSED	Percentage	524.95 Sq ft
Area between 0.00 and 120.00 mins:	11.01 Sq m	22.57%	
Area over 120.00 mins:	37.76 Sq m	77.43%	

Open space area: 41	58.60 Sq m PROPOSED	Percentage	630.72 Sq ft
Area between 0.00 and 120.00 mins:	14.66 Sq m	25.01%	
Area over 120.00 mins:	43.94 Sq m	74.99%	

Open space area: 42	57.22 Sq m PROPOSED	Percentage	615.91 Sq ft
Area between 0.00 and 120.00 mins:	13.04 Sq m	22.79%	
Area over 120.00 mins:	44.18 Sq m	77.21%	

Open space area: 43	60.26 Sq m PROPOSED	Percentage	648.59 Sq ft
Area between 0.00 and 120.00 mins:	12.69 Sq m	21.06%	
Area over 120.00 mins:	47.56 Sq m	78.94%	

Open space area: 44	48.49 Sq m PROPOSED	Percentage	521.94 Sq ft
Area between 0.00 and 120.00 mins:	10.73 Sq m	22.12%	
Area over 120.00 mins:	37.76 Sq m	77.88%	

Open space area: 45	59.30 Sq m PROPOSED	Percentage	638.28 Sq ft
Area between 0.00 and 120.00 mins:	17.73 Sq m	29.89%	
Area over 120.00 mins:	41.57 Sq m	70.11%	

Open space area: 46	59.82 Sq m PROPOSED	Percentage	643.89 Sq ft
Area between 0.00 and 120.00 mins:	24.50 Sq m	40.95%	
Area over 120.00 mins:	35.32 Sq m	59.05%	

Open space area: 47	60.75 Sq m PROPOSED	Percentage	653.95 Sq ft
Area between 0.00 and 120.00 mins:	29.88 Sq m	49.19%	
Area over 120.00 mins:	30.87 Sq m	50.81%	

Open space area: 48	135.08 Sq m PROPOSED	Percentage	1453.95 Sq ft
Area between 0.00 and 120.00 mins:	22.46 Sq m	16.63%	
Area over 120.00 mins:	112.62 Sq m	83.37%	

Open space area: 49	49.14 Sq m PROPOSED	Percentage	528.91 Sq ft
Area between 0.00 and 120.00 mins:	5.51 Sq m	11.22%	
Area over 120.00 mins:	43.62 Sq m	88.78%	