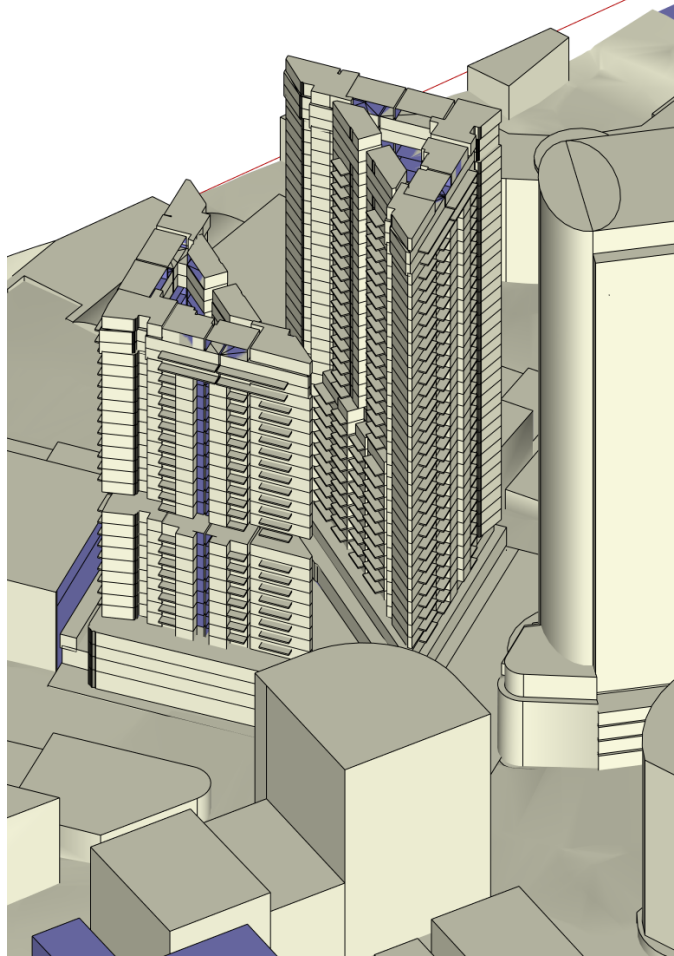


**EXPERT OPINION  
SEPP65 AMENITY COMPLIANCE  
SOLAR ACCESS**



**472-494 & 500-520 Pacific Hwy St Leonards**

**6 August 2015**

Signed,

A handwritten signature in black ink that reads "Steve King".

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**Steve King**

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## 0.0 PRELIMINARIES

0.1 I provide this expert opinion relating to **solar access** compliance with the relevant local controls, and the Residential Flat Design Code as it gives effect to the Amenity provisions of SEPP65, for proposed apartments at 472-494 & 500-520 Pacific Hwy St Leonards.

0.2 My qualifications and experience are summarized at *2.0 Credentials*.

0.3 The documents on which I rely are listed at *3.0 Documents*.

## 1.0 INTRODUCTION AND SUMMARY

1.1 The proposal which is subject of this report consists of two high rise buildings on one consolidated site, over commercial, retail and basement carparking. The preferred site planning and building massing have been the subject of a rezoning following extensive consultation with Council, based on strong urban design principles.

1.2 The shape and orientation of the site is dictated by three surrounding streets, giving rise to potentially two of four principal facades that cannot comply for a minimum of two hours winter solar access. This is addressed by an innovative massing of two triangular towers separated by a significant distance across a north-south axis aligned with Mitchell Street to the north of the Pacific Highway intersection. The separation between the two towers is dedicated at ground level to publicly accessible open space with good solar access in the middle of the day in winter.

1.3 The massing of the proposed two towers effectively creates two additional facades oriented east and west respectively, on either side of the axial space. Theoretically the solar exposure of these two facades would help the project realise a higher proportion of dwellings complying for minimum two hours solar access on June 21.

In practice however, realisation of the theoretical duration of solar access is limited by self shading, by the projecting private open space verandas and their respective privacy screens. This is a relatively well understood limitation on solar access in the middle of the day for east and west facing facades.

The potential solar access for the west facing apartments is further, significantly curtailed by predicted overshadowing from the likely development to the immediate northwest of the subject site, currently known as the Charter Hall site.

1.4 Prior to Mirvac acquiring the site and revising the DA to address Council concerns, Leighton Properties prepared and submitted a Development Application (DA 222/2014) to Lane Cove Council for the subject property. That development application for the site was submitted with a mix of dwellings including an exaggerated number of one bedroom and studio apartments.

The purpose of this can be clearly inferred to be a 'numbers game', intended to maximise the proportion of complying apartments. In addition, in order to arrive at this outcome, the relatively certain effect of overshadowing by the likely Charter Hall development was ignored in the analysis.

1.5 Following acquisition, Mirvac proposes to make a selection of amendments to the current DA. The amendments are designed to address a variety of planning and market related issues. Highly relevant to the likely level of achieved solar access for the site is the reduction in the proportion of one bedroom apartments and increase in proportion of two and three bedroom apartments; this results in an overall decrease in yield from 570 apartments to 535 apartments.

Over and above the change in relative numbers, I note in particular that the proposed changes give rise to dwellings of improved variety and amenity.

1.6 As a consequence of the reduction of the number and proportion of nominally favourably oriented dwellings, the two major elevations which have unfavourable orientation for winter sun have a disproportionate impact on the achieved overall compliance for solar access. I note that:

- The southeast elevation has panoramic harbour views towards the city, centred on an iconic view of the Sydney Harbour Bridge;
- The southwest elevation has an open prospect including the upper harbour, Gladesville, Hunters Hill and the Blue Mountains.

It is clear that on balance, these are extremely high amenity apartments, and it would be unthinkable to reduce the number of such apartments. In considering so-called 'holistic amenity', I also note with respect to the apartments facing onto the axial space separating the buildings:

- Both east and west 'internal' elevations afford more restricted oblique views from their private open space, of which the worst-case is an approximately 15° view cone almost exactly centred, and including the Harbour Bridge.

## 1.7 Projected solar access.

1.7.1 On the basis of the proposed high density, under the RFDC it is appropriate to apply the so-called two-hour standard to the proposed development. This compliance standard has now been adopted throughout the metropolitan area by the newly published Apartment Design Guide.

Detailed analysis employing a full 3D digital model – which includes sufficient extent of surrounding developments – also makes it possible to take account of effective direct sun before 9am and after 3pm for those units which face substantially east or west respectively. For my reasoning, I refer in particular to the judgement by Brown C. in *Botany Development Pty Ltd v Council of the City of Botany Bay LEC 10360 of 2013*. See 5.4 *Characterisation of solar access compliance: durations and available effective sun*.

1.7.2 The projected proportion of dwellings with over 2 hours of winter solar access is 282 (52.7%) units from a total of 535. While this may appear a significant shortfall from the target 70% of apartments suggested by the *Rules of Thumb* in the RFDC, it is in fact a relatively high proportion if we pay regard to the effect of the adverse orientation of two major elevations. I estimate the impact of overshadowing by the hypothetical building on the Charter Hall site alone to be some thirty-eight complying units being 6.8% of the total 535 dwellings now proposed. Were the analysis undertaken on the basis of the existing context, the proportion of dwellings with over 2 hours of winter solar access would be 320 (59.8%) from a total of 535.

*In my view the scheme retains close to potential maximum solar access compliance, without resorting to the artifice of deliberately distorting the unit mix, or – in order to eliminate self shading – arbitrarily applying what would be in effect a glass curtain wall with minimal relief.* In my considered opinion the proposed amended DA scheme is significantly superior to the development application currently before Council.

While the exercise of discretion has always been possible with respect to the RFDC and the local controls, the new Apartment Design Guide makes explicit that on some sites with a variety of possible conflicting issues, lower proportions of units may achieve full compliance. **Given that the building forms were fixed as part of the rezoning phase, in my considered opinion discretion in relation to the level of solar access compliance is justified by the very high holistic amenity of the apartments, and the significant public benefit of the preferred building design.**

## 2.0 CREDENTIALS

I have taught architectural design, thermal comfort and building services at the Universities of Sydney, Canberra and New South Wales since 1971. From 1992, I was a Research Project Leader in SOLARCH, the National Solar Architecture Research Unit at the University of NSW. Until its disestablishment in November 2006, I was the Associate Director, Centre for Sustainable Built Environments, UNSW.

My research and consultancy includes work in solar access, energy simulation and assessment for houses and multi-dwelling developments, building assessments under the NSW SEDA Energy Smart Buildings program, appropriate design and alternative technologies for museums and other cultural institutions, and asthma and domestic building design. I am the principal author of *SITE PLANNING IN AUSTRALIA: Strategies for energy efficient residential planning*, funded by the then Department of Primary Industry and Energy, and published by AGPS, and of the *RAIA Environment Design Guides* on the same topic. Through UNISEARCH, NEERG Seminars

and Linarch P/L, I conduct training in solar access and overshadowing assessment for Local Councils. I have delivered professional development courses on topics relating to energy efficient design both in Australia and internationally.

SOLARCH/UNISEARCH were the contractors to SEDA NSW for the setting up and administration of the House Energy Rating Management Body (HMB), which accredits assessors under the Nationwide House Energy Rating Scheme (NatHERS), NSW. I was the technical supervisor of the HMB, with a broad overview of the dwelling thermal performance assessments carried out in NSW over five years. I have been a member of the NSW BRAC Energy Subcommittee, and also a member of the AGO Technical Advisory Committee on the implementation of AccuRate, the new mandated software tool under NatHERS. I undertook the Expert Review for the NSW Department of Planning, of the comparison of NatHERS and DIY methods of compliance for Thermal Comfort under BASIX, and was subsequently a member of a three person expert panel advising on the implementation of AccuRate in BASIX.

I have delivered the key papers in the general area of assessment of ventilation and solar access performance and compliance, for NEERG Seminars, cited by Commissioners of the LEC. Senior Commissioner Moore cited my assistance in reframing of the Planning Principle related to solar access (formerly known as the *Parsonage Principle*) in *The Benevolent Society v Waverley Council [2010] NSWLEC 1082*.

I practiced as a Registered Architect from 1971 to 2014, and maintain a specialist consultancy practice in Sydney and Canberra. I regularly assist the Land and Environment Court as an expert witness in related matters.

### 3.0 DOCUMENTS

3.1 In preparing this opinion, I have referred to:

- Architectural drawings of the proposed amended DA design issued by Sisson Architects on 4 August 2015:
  - L010D through L015 Rev 01
  - L016D Rev 00
  - L020D Rev 02
  - L021D Rev 01
  - L022D, L024D through L026D, L028-L029 Rev 02
  - L052D Rev 01
- 141222\_DA Design Report\_A3 being the Design Report dated December 2014 for Leighton Properties.
- Digital 3D model supplied by the architects as SketchUp .skp export files from their CAD software.

3.2 I have visited the site.

### 4.0 GENERAL MASSING, PLANNING AND DESIGN RESPONSE

#### 4.1 Site

4.1.1 The site is a near square shape, resulting from the amalgamation of individual lots. It is bounded to the northeast by the Pacific Highway, to the north-west by Friedlander Place, the south-west by Nicholson Street, and to the southeast by low rise commercial buildings fronting the highway.

4.1.2 Any high-rise building or combination of buildings on the site will have the benefit of iconic views of the city and the Harbour Bridge to the southeast, and of the upper harbour to the south-west. However, it is intrinsic to the geometry of the site and building shapes determined through the rezoning process, that primary facades with those orientations will not have winter solar access opportunity to comply with the relevant controls.

#### 4.2 Building form

I was first retained by the previous owners, Leighton Properties, in early 2014 with a brief to peer review solar access opportunity of massing options for buildings on the site. I was again retained by Leighton Properties to

undertake solar access compliance analysis and reporting for the submitted Development Application. Through that process, I have some familiarity with detailed considerations that have informed the current proposed building forms.

I understand that the building response of two triangular buildings with a north-south axial view corridor is the outcome of detailed agreement with Council as part of the rezoning process. Figure 2 illustrates the overall arrangement.



Figure 1: Site location

#### 4.2.1 Solar access for new public space

While the primary benefit of the open axis diagonally through the site, aligned north-south with Mitchell Street on the opposite side of the highway is the establishment of a view corridor, the architects design report for the development application also identifies the opportunities for improved solar access for the public space created within the subject development. As explicitly noted in the architects' analysis, the greatest winter solar access benefit for the public space coincides with the middle of the day.

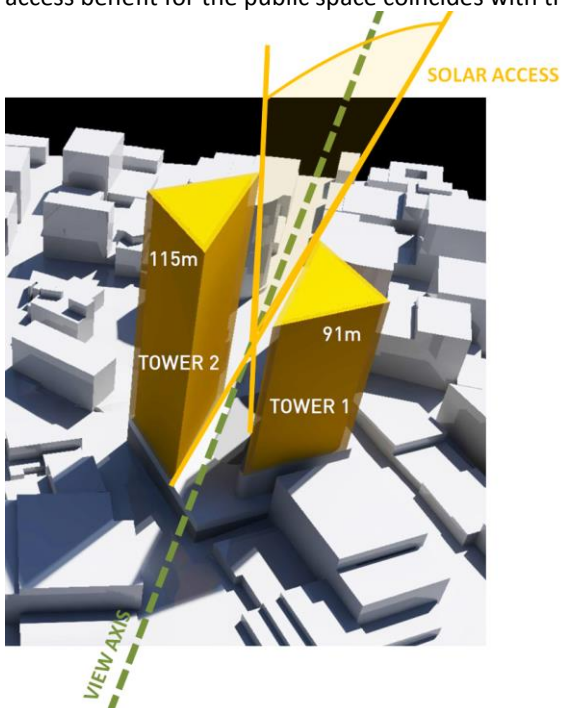


Figure 2: Massing concept

#### 4.2.2 Solar access for internal elevations

The architects' site analysis puts less emphasis on the fact that the creation of a separation between the two building forms also facilitates access to winter sun for a proportion of apartments within the subject site.

That said, notwithstanding the generous separation distance of minimum 22m, mutual overshadowing by the two proposed towers limits the duration of solar access to the two internal elevations.

## 5.0 SOLAR ACCESS

### 5.1 Methodology

I have analyzed and quantified solar access for compliance with the requirements of the DCP and the Residential Flat Design Code by use of a 3D digital model and the heliodon routine of the industry standard software application *Trimble SketchUp v.2015*.

#### 5.1.1 Probity of modelling

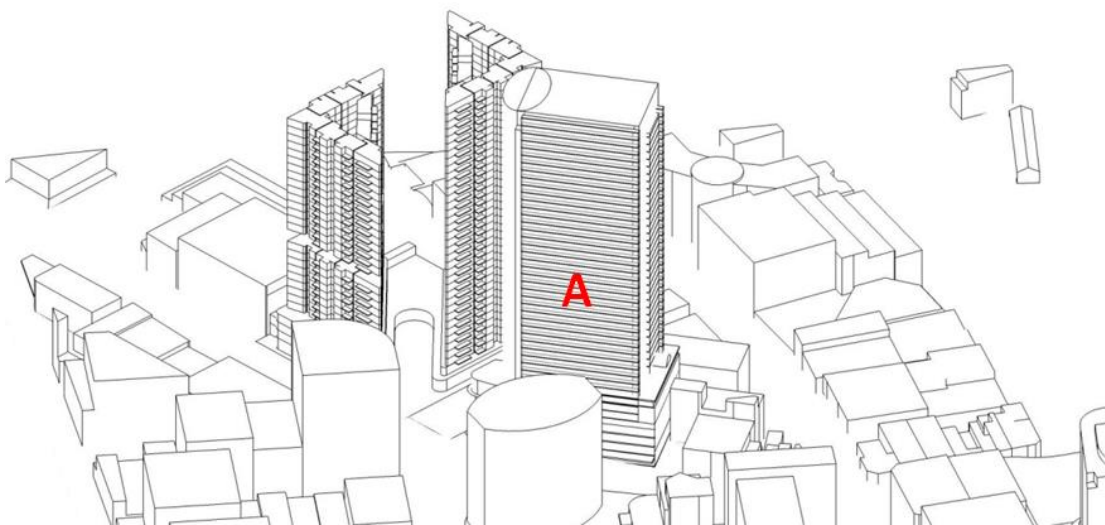
The digital model files were supplied to me by Sissons Architects, based on their own CAD documentation. I have independently geolocated the models, and verified the direction of North by reference to cadastral grid north. I have also independently verified sufficient relevant model and location parameters to *conclude that the modelling is sufficiently accurate to the information of the provided plans*.

I note in particular that the model provided includes an extensive representation of surrounding developments, including a conservative hypothetical DCP compliant envelope for the proposed high-rise building to the immediate northwest of the subject site (known as the Charter Hall site). This envelope effectively represents a 'worst case' scenario for overshadowing impact on the subject site.

#### 5.1.2 Projections: views from the sun

Because of the complexity of demonstrating in detail the solar access to glazing of various orientations — and taking into account the potential for self-shading by the protruding balconies and privacy screens — exhaustive detailed analysis was performed using projections known as 'View from the sun', taken at half hourly intervals.

A **view from the sun** is an aerial projection, where the observer views the subject site from the position of the sun at the nominated time and date. Such a view shows all sunlit surfaces at that time. It therefore allows a very precise count of sunlight hours on any glazing or horizontal surface, with little or no requirement for secondary calculations or interpolation. The technique is illustrated in Figure 3.



**Figure 3: View from the sun, 11:30am June 21**

A hypothetical compliant envelope is shown on the so-called Charter Hall site (A).

*Note that a view from the sun does not show shadows, as shadows exactly align with (and are hidden by) the object which casts them. For that reason, views from the sun are the only projection in which it can be directly 'seen' what part of an obstructing building is the specific cause of any particular part of a shadow.*

During my analysis I also examined other detailed shaded views of parts of the model, as required for clarification of the area of sun patches on glazing.

I have generated my own quantification and compliance tables, included in this report at Appendix A.

## 5.2 Relevant solar access standards

### 5.2.1 Residential Flat Design Code

The Residential Flat Design Code gives the following quantified *Rules of Thumb*:

- Living rooms and private open spaces for at least 70 percent of apartments in a development should receive a minimum of three hours direct sunlight between 9am and 3pm in mid winter. In dense urban areas a minimum of two hours may be acceptable.
- Limit the number of single-aspect apartments with a southerly aspect (SW-SE) to a maximum of 10 percent of the total units proposed.
- Developments which seek to vary from the minimum standards must demonstrate how site constraints and orientation prohibit the achievement of these standards and how energy efficiency is addressed (see Orientation and Energy Efficiency).  
(*Rules of Thumb: Daylight Access p. 84*)

### 5.2.2 Local controls

Clause 3.15 in Part C3 of LCDCP 2010 provides as follows, *inter alia*:

#### Objectives

The objective for solar access is:

- 1 To provide reasonable solar access to habitable rooms and recreational areas of new and existing developments.

#### Provisions

These provisions apply to proposed developments and any residential development beyond the site.

- a) Habitable rooms in at least 70 percent of dwellings in high density residential developments should receive a minimum of three hours direct sunlight between 9 am and 3 pm on 21st June, in total between any portions of those rooms. A reasonable proportion of both the common and private open space in those sites is also to receive sunlight during that period, according to the circumstances of the sites.
- d) Council may accept a reduction in solar access for the subject site and adjacent development if the topography and lot orientation (as distinct from a preferred design) are such that the standard is considered unreasonable.

The DCP Clause is consistent with the requirement of the RFDC, and includes reduced performance expectation for closely built-up high density development. I note that the DCP controls also provide for:

- Provision (a) extends the definition from “Living rooms’ to ‘habitable rooms’;
- Provision (d) allows explicitly for the exercise of discretion by Council to accept a reduced standard as complying.

## 5.3 Characterisation of solar access compliance: durations and available effective sun

### 5.3.1 Duration of sun access

The RFDC suggests a minimum duration of direct sun for three hours between 9am and 3pm on June 21, but accepts that a less onerous '2-hour standard' can be applied in dense urban areas. As this standard has now been extended by the recently published this Apartment Design Guide throughout the metropolitan area, without reference to high density, I take that it may be applied to this site without further discussion.

Given the design, balconies will in most cases enjoy a more favourable sun exposure than the glazing. I therefore begin by classifying as complying when direct sun access is over two hours total of partially and fully sunlit glazing between 9am and 3pm mid-winter.

### 5.3.2 *Applicable times of day for effective sun*

The 9am and 3pm limits are a legacy from early controls for single dwellings in arcadian suburban settings, where the desired mature tree canopied character was assumed to limit the availability of winter sun beyond those times. In my considered opinion, to apply those limits without reference to the availability of earlier and later sun is inappropriate, and this opinion has consistently had the support of the Land and Environment Court.

A suitable 3D digital model can demonstrate what sun exposure is reliably available before 9am and after 3pm. To be relied on to do so, the digital model must incorporate sufficient extent of the surrounding developments adjacent to, and also remote from the site, for one to be able to form an opinion of whether the relevant sun exposure is likely to be permanent.

To capture where apartments will receive additional effective direct winter sun earlier or later than the arbitrary 9am and 3pm limits, I have recorded solar access from 8am and until 4.00pm. *I note that in general, these earlier and later periods of winter sun are actually the most effective for the relevant east and west glazing.* However, I have ignored where the model may show even earlier and later direct sun, as not sufficiently reliable for characterizing compliance.

### 5.3.3 *Sun patches on glazing*

For the purpose of calculating the compliance with the control, I have examined sun patches on the relevant glazing line of each apartment, and solar access of private open space related to those living spaces. In the tower component, I have given priority to compliance for the sun on the glazing of living areas. In accordance with the relevant *L+EC Planning Principle (Benevolent Society vs Waverley Council)*, when I determine exposure times, I generally ignore very *large angles of incidence* to the glazing surface, and unusably *small areas of sunlit glazing*.

### 5.3.4 *Sun to bedrooms*

The latest amendment of Clause 3.15 in Part C3 of LCDCP 2010 now reads:

“Habitable rooms in at least 70 percent of dwellings in high density residential developments should receive a minimum of three hours direct sunlight between 9 am and 3 pm on 21st June, in total between any portions of those rooms.”

I take this to be a careful and purposeful elaboration of the previously more restrictive text of the same control that referred to ‘living areas’. I infer the purpose is to recognise that for a proportion of apartments it is appropriate to give credit for solar access to bedrooms as constituting compliance.

### 5.3.5 *Overshadowing by existing features or known developments*

To allow for potential overshadowing by such developments, the model is extended significantly to the north-east and west of the subject site, by placing extruded building volumes in the correct locations. Figure 3 is the 11:30am view from the sun on June 21. As is clear from that view, the modelled buildings to the east along Pacific Hwy do not impact on the subject development. Buildings to the north of the Pacific Highway cause overshadowing impacts on only the lowest commercial and retail levels of the subject development.

### 5.3.6 *Overshadowing by unknown but projected development*

This consideration applies almost entirely to the potential effect of future high-rise building known as the ‘Charter Hall site’, to the northwest of the subject site (labelled A in Figure 2). My analysis includes the overshadowing effect of this hypothetical building envelope, which can be assumed to be a worst case implementation of the allowable building envelope of the site.

## 5.4 **Achieved solar access**

5.4.1 Appendix A reports in detail the schedule of achieved mid-winter (June 21) solar access for each apartment for the scheme.

Appendix B presents the ‘views from the sun’ taken from the model shown in Figure 2 above. This tabulated set of views is reproduced at reduced scale for reference. Larger versions of the views can be provided digitally on request if required for more detailed scrutiny by Council.

**Table 1: Summary of solar access for units**

|                                                                                                                |            |              |
|----------------------------------------------------------------------------------------------------------------|------------|--------------|
| Units which achieve 2 hours or more sunlight 9am - 3pm June 21 to any part of habitable rooms                  | 232        | 43.4%        |
| Additional units which achieve 2 hours or more sunlight 8am – 4.00pm June 21 to any part of habitable rooms    | 50         | 9.3%         |
| Total number of units                                                                                          | 535        |              |
| <b>Units deemed to satisfy the RFDC and local controls</b>                                                     | <b>282</b> | <b>52.7%</b> |
| Estimated number of dwellings non-compliant due to overshadowing impact of hypothetical Charter Hall building: |            |              |
| Building A: 30                                                                                                 |            |              |
| Building B: 8 (noted in schedule)                                                                              | 38         | 7.1%         |
| <b>Units which would achieve 2 hours or more sunlight on June 21 with present context</b>                      | <b>320</b> | <b>59.8%</b> |
| Single aspect south facing units                                                                               | 42         | 7.9%         |

Council is encouraged by its DCP control to pay regard to the following factors:

- The RFDC suggests that a '2-hour standard' can be applied in dense urban areas;
- The DCP control provisions define the required sun access for each dwelling as 'in total to any portion of the habitable rooms'. In fact this provision makes little difference to the overall compliance achieved;
- Brown, C. in *Botany Development Pty Ltd v Council of the City of Botany Bay LEC 10360 of 2013* confirmed that effective sun before 9am and after 3pm is legitimately considered.

## 5.5 South facing single aspect apartments

The proportion of south facing single aspect dwellings is 46 from the total of 535, being 8.3%. The RFDC *Rules of Thumb* nominate maximum 10%. The proposed development complies for this control. Of interest is that the proposal also complies with the Apartment Design Guide of less than 15% of dwellings without any sun on June 21, with only the same units falling into that category.

## 8.0 CONCLUSIONS

8.1 The proportion of apartments which comply with the *performance requirements* of the Residential Flat Design Code is **282 (52.7%) units from a total of 535**.

8.2 To arrive at this number, I have considered it reasonable to take account of sun available before 9am or after 3pm, for those apartments where the 3D model makes clear that such sun is unlikely to be obstructed at any time in the future, and where in addition, such sun is the most effective for the apartments in question. For my reasoning, I refer in particular to the judgement by Brown C. in *Botany Development Pty Ltd v Council of the City of Botany Bay LEC 10360 of 2013* on 31 January 2014.

8.3 The compliance level I report may appear a significant shortfall from the target 70% suggested by the *Rules of Thumb* in the RFDC. However, if we pay regard to the effect of the adverse orientation of two major elevations of the buildings in the location and form established by the rezoning of the land, and the effect of external overshadowing, the achieved solar access is in fact a relatively high proportion. I estimate the impact of overshadowing by the hypothetical building on the Charter Hall site alone to be some thirty-eight complying units, being 7.1% of the total 535 dwellings now proposed.

***Were the analysis undertaken on the basis of the existing context, the proportion of dwellings with over 2 hours of winter solar access would be 320 (59.8%) from a total of 535.***

In my considered opinion the proposed amended DA scheme is significantly superior to the development application currently before Council. In my view the scheme retains close to potential maximum solar access compliance, without resorting to the artifice of deliberately distorting the unit mix, or – in order to eliminate self shading – arbitrarily applying what would be in effect a glass curtain wall with minimal relief.

***I am of the view that the design approach represents a skilful resolution of very high holistic amenity for dwellings within the scheme, and achieves a significant public benefit. The level of solar access compliance is an outcome of reasoned trade-offs between adverse orientation and highly desirable view amenity. As such, in my considered opinion, the development complies for solar access amenity as provided for by the controls, and is capable of being supported for approval.***

## A.0 APPENDIX A

Table 2: Detailed compliance table for solar access

| LEVEL   | UNIT  | 8 | 830 | 9 | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14 | 1430 | 15  | 1530 | 16 | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|---------|-------|---|-----|---|-----|-----|------|-----|------|-----|------|-----|------|----|------|-----|------|----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
| LEVEL 3 | 301 B |   |     |   |     |     | p    |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 302 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 303 B |   |     |   |     |     | yes  | yes |      |     |      |     |      |    |      | yes | yes  |    |               |                           |               |                |                                     |                                  |
|         | 305 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      | yes | yes  |    |               |                           |               |                |                                     |                                  |
|         | 306 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      | yes | yes  |    |               |                           |               |                |                                     |                                  |
|         | 307 B |   |     |   |     | yes | yes  | yes |      |     |      |     |      |    | yes  | yes | yes  |    |               |                           | YES           |                |                                     |                                  |
|         | 308 B |   |     |   |     | yes | yes  | yes | yes  |     |      |     |      |    |      |     | yes  |    |               |                           |               | YES            |                                     |                                  |
|         | 309 B |   |     |   |     |     | p    | yes | yes  | yes |      |     |      |    |      |     |      |    |               |                           |               |                | YES                                 |                                  |
|         | 310 B |   |     |   |     |     |      | yes | yes  | yes | yes  | yes |      |    |      |     |      |    |               |                           | YES           |                |                                     |                                  |
|         | 311 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 312 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
| LEVEL 4 | 401 B |   |     |   |     | p   | p    |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 402 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 403 B |   |     |   |     |     | yes  | yes |      |     |      |     |      |    |      | yes | yes  |    |               |                           |               |                |                                     |                                  |
|         | 405 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      | yes | yes  |    |               |                           |               |                |                                     |                                  |
|         | 406 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      | yes | yes  |    |               |                           |               |                |                                     |                                  |
|         | 407 B |   |     |   | yes | yes | yes  | yes |      |     |      |     |      |    | yes  | yes | yes  |    |               | YES                       |               |                |                                     |                                  |
|         | 408 B |   |     |   |     | yes | yes  | yes | yes  |     |      |     |      |    |      |     | yes  |    |               |                           |               | YES            |                                     |                                  |
|         | 409 B |   |     |   |     |     | p    | yes | yes  | yes |      |     |      |    |      |     |      |    |               |                           |               |                | YES                                 |                                  |
|         | 410 B |   |     |   |     |     |      | yes | yes  | yes | yes  | yes |      |    |      |     |      |    |               |                           | YES           |                |                                     |                                  |
|         | 411 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 412 B |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
| LEVEL 5 | 501 A |   |     |   |     |     |      |     |      |     | p    | p   | yes  |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 502 A |   |     |   |     |     |      |     |      |     |      | p   |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 503 A |   |     |   |     |     |      |     |      | yes | yes  |     |      |    |      |     |      |    |               |                           |               |                |                                     |                                  |
|         | 505 A |   |     |   |     |     |      |     |      |     |      |     |      |    |      |     |      |    |               |                           |               |                |                                     | YES                              |

| LEVEL   | UNIT  | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16 | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |  |
|---------|-------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|--|
|         | 506 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     | YES                              |  |
|         | 507 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |    | YES           |                           |               |                |                                     |                                  |  |
|         | 508 A | yes | yes | yes | yes | yes | yes  |     | yes  |     | yes  | yes | yes  |     |      |     |      |    | YES           |                           |               |                |                                     |                                  |  |
|         | 509 A | yes | yes | yes | yes | yes |      |     |      |     | p    | p   | yes  |     |      |     |      |    |               |                           |               | YES            |                                     |                                  |  |
|         | 510 A | yes | yes | yes | yes |     |      |     |      | yes | yes  | yes | yes  | yes | yes  |     |      |    | YES           |                           |               |                |                                     |                                  |  |
|         | 511 A |     |     |     |     |     |      |     |      |     |      | p   | yes  | yes |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 512 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 501 B |     |     |     |     | p   | p    |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 502 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 503 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  |    |               |                           |               |                |                                     |                                  |  |
|         | 505 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  |    |               |                           |               |                |                                     |                                  |  |
|         | 506 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  |    |               |                           |               |                |                                     |                                  |  |
|         | 507 B |     |     |     | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  |    |               | YES                       |               |                |                                     |                                  |  |
|         | 508 B |     |     |     |     | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  |    |               |                           |               |                | YES                                 |                                  |  |
|         | 509 B |     |     |     |     | yes | p    | yes | yes  | yes |      |     |      |     |      |     |      |    |               |                           |               |                | YES                                 |                                  |  |
|         | 510 B |     |     |     |     |     |      | yes | yes  | yes | yes  | yes |      |     |      |     |      |    |               |                           | YES           |                |                                     |                                  |  |
|         | 511 B | yes | yes |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 512 B |     |     |     |     |     | p    |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
| LEVEL 6 | 601 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 602 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 603 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 605 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     | YES                              |  |
|         | 606 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |    |               |                           |               |                |                                     | YES                              |  |
|         | 607 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |    | YES           |                           |               |                |                                     |                                  |  |
|         | 608 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |    | YES           |                           |               |                |                                     |                                  |  |
|         | 609 A | yes | yes | yes | yes | yes |      |     |      | p   | p    | p   | yes  |     |      |     |      |    |               |                           |               |                | YES                                 |                                  |  |
|         | 610 A | yes | yes | yes | yes |     |      |     |      | yes | yes  | yes | yes  | yes | yes  |     |      |    | YES           |                           |               |                |                                     |                                  |  |
|         | 611 A |     |     |     |     |     |      |     |      |     |      | p   | yes  | yes |      |     |      |    |               |                           |               |                |                                     |                                  |  |
|         | 612 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |    |               |                           |               |                |                                     |                                  |  |

| LEVEL   | UNIT  | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|---------|-------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|         | 601 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 602 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 603 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  |     |               |                           |               |                |                                     |                                  |
|         | 605 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  |     |               |                           |               |                |                                     |                                  |
|         | 606 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  |     |               |                           |               |                |                                     |                                  |
|         | 607 B |     |     |     | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  |     |               | YES                       |               |                |                                     |                                  |
|         | 608 B |     |     |     |     | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  |     |               |                           |               | YES            |                                     |                                  |
|         | 609 B |     |     |     |     | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|         | 610 B |     |     |     |     |     |      | yes | yes  | yes | yes  | yes |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|         | 611 B | yes | yes |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 612 B |     |     |     |     | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 7 | 701 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 702 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 703 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 705 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|         | 706 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|         | 707 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 708 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 709 A | yes | yes | yes | yes | yes |      | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|         | 710 A | yes | yes | yes | yes |     |      |     |      | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 711 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 712 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 701 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 702 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 703 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|         | 705 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  |     |               |                           |               |                |                                     |                                  |
|         | 706 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  |     |               |                           |               |                |                                     |                                  |
|         | 707 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  |     | YES           |                           |               |                |                                     |                                  |
|         | 708 B |     |     |     | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  |     |               |                           | YES           |                |                                     |                                  |

| LEVEL   | UNIT  | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|---------|-------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|         | 709 B |     |     |     |     | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|         | 710 B |     |     |     |     |     | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|         | 711 B | yes | yes |     |     | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 712 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 8 | 801 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 802 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 803 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 805 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|         | 806 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|         | 807 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 808 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 809 A | yes | yes | yes | yes | yes |      | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|         | 810 A | yes | yes | yes | yes |     |      |     | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 811 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 812 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 801 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 802 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 803 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|         | 805 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|         | 806 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|         | 807 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  |     | YES           |                           |               |                |                                     |                                  |
|         | 808 B |     |     |     | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  |     |               |                           | YES           |                |                                     |                                  |
|         | 809 B |     |     |     | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|         | 810 B |     |     |     |     | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|         | 811 B | yes | yes |     | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 812 B |     |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 9 | 901 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 902 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|         | 903 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL  | UNIT     | 8      | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|--------|----------|--------|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|        | 905 A    |        |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|        | 906 A    |        |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|        | 907 A    | yes    | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|        | 908 A    | yes    | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|        | 909 A    | yes    | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|        | 910 A    | yes    | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|        | 911 A    |        |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|        | 912 A    |        |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|        | 901 B    |        |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|        | 902 B    |        |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|        | 903 B    |        |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|        | 905 B    |        |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|        | 906 B    |        |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|        | 907 B    |        |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|        | 908 B    |        |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|        | 909 B    |        |     |     | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|        | 910 B    |        |     |     |     | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|        | 911 B    | yes    | yes |     | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|        | 912 B    |        |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|        | LEVEL 10 | 1001 A |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
| 1002 A |          |        |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| 1003 A |          |        |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| 1005 A |          |        |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
| 1006 A |          |        |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
| 1007 A |          | yes    | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
| 1008 A |          | yes    | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
| 1009 A |          | yes    | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
| 1010 A |          | yes    | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
| 1011 A |          |        |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1012 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1001 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1002 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1003 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1005 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1006 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1007 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1008 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1009 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                | YES                                 |                                  |
|          | 1010 B |     |     |     | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1011 B | yes | yes | yes | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1012 B |     |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 11 | 1101 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1102 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1103 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1105 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1106 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1107 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1108 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1109 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1110 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1111 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1112 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1101 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1102 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1103 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1105 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1106 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1107 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1108 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1109 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                | YES                                 |                                  |
|          | 1110 B |     |     |     | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1111 B | yes | yes | yes | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1112 B |     |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 12 | 1201 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1202 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1203 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1205 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1206 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1207 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1208 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1209 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1210 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1211 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1212 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1201 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1202 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1203 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1205 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1206 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1207 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1208 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1209 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                | YES                                 |                                  |
|          | 1210 B |     |     | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1211 B | yes | yes | yes | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1212 B |     |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 13 | 1301 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1302 A |     |     |     |     |     |      |     |      |     |      | p   |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1303 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1305 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1306 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1307 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1308 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1309 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1310 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1311 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1312 A |     |     |     |     |     |      |     |      |     | p    | p   | yes  |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1301 B |     |     |     | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1302 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1303 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1305 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1306 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1307 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1308 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1309 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                | YES                                 |                                  |
|          | 1310 B |     | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1311 B | yes | yes | yes | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1312 B |     |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 14 | 1401 B |     |     |     | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1402 B |     |     |     |     | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1403 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1405 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1406 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1407 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1408 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1409 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 1410 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1411 B | yes | yes | yes | yes | p   |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1412 B |     |     | yes | yes | p   | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 15 | 1501 A |     |     |     |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1502 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1503 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|          | 1505 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|          | 1506 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1507 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1508 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1509 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1510 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1501 B |     |     | p   | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1502 B |     |     |     |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1503 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1505 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1506 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1507 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1508 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 1509 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1510 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 16 | 1601 A |     |     |     |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1602 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1603 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|          | 1605 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                | YES                                 |                                  |
|          | 1606 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1607 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1608 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1609 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1610 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9    | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|------|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1601 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1602 B |     |     |      |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1603 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1605 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1606 B |     |     | yes  | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1607 B |     |     | yes  | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1608 B |     |     | yes  | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 1609 B | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1610 B | yes | yes | yes  | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 17 | 1701 A |     |     |      |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1702 A |     |     |      |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1703 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1705 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1706 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1707 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1708 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1709 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1710 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1701 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1702 B |     |     |      |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1703 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1705 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1706 B |     |     | yes  | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1707 B |     |     | yes  | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1708 B |     |     | yes  | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 1709 B | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1710 B | yes | yes | yes  | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 18 | 1801 A |     |     |      |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1802 A |     |     |      |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9    | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|------|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1803 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1805 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1806 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1807 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1808 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1809 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1810 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1801 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1802 B |     |     |      |     |     | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1803 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1805 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1806 B |     |     | yes  | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1807 B |     |     | yes  | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1808 B |     |     | yes  | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 1809 B | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1810 B | yes | yes | yes  | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 19 | 1901 A |     |     |      |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1902 A |     |     |      |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1903 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1905 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 1906 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1907 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1908 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1909 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1910 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1901 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 1902 B |     |     |      |     | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 1903 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 1905 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 1906 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 1907 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 1908 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 1909 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 1910 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 20 | 2001 A |     |     |     |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2002 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2003 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2005 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2006 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2007 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2008 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2009 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2010 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2001 B |     |     | p   | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2002 B |     |     |     |     | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 2003 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2005 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2006 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2007 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2008 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2009 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2010 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 21 | 2101 A |     |     |     |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2102 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2103 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2105 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2106 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2107 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9    | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|------|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 2108 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2109 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2110 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2101 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2102 B |     |     |      |     | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 2103 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2105 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2106 B |     |     | yes  | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2107 B |     |     | yes  | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2108 B |     |     | yes  | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2109 B | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2110 B | yes | yes | yes  | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 22 | 2201 A |     |     |      |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2202 A |     |     |      |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2203 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2205 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2206 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2207 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2208 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2209 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2210 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2201 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2202 B |     |     |      |     | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               | YES            |                                     |                                  |
|          | 2203 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2205 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2206 B |     |     | yes  | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2207 B |     |     | yes  | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2208 B |     |     | yes  | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2209 B | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9    | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|------|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 2210 B | yes | yes | yes  | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 23 | 2301 A |     |     |      |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2302 A |     |     |      |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2303 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2305 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2306 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2307 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2308 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2309 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2310 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2301 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2302 B |     |     |      | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2303 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2305 B |     |     |      |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2306 B |     |     | yes  | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2307 B |     |     | yes  | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2308 B |     |     | yes  | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2309 B | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2310 B | yes | yes | yes  | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 24 | 2401 A |     |     |      |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2402 A |     |     |      |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2403 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2405 A |     |     |      |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2406 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2507 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2508 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2509 A | yes | yes | yes  | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2510 A |     |     |      |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2401 B |     |     | pyes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 2402 B |     |     |     | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2403 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2405 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2406 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2407 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2408 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2409 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2410 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 25 | 2501 A |     |     |     |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2502 A |     |     |     |     |     |      |     |      | yes | yes  |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2503 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2505 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     | YES                              |
|          | 2506 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2507 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2508 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2509 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2510 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2501 B |     |     | yes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|          | 2502 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2503 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2505 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2506 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2507 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2508 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2509 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2510 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 26 | 2601 A |     |     |     |     |     |      |     |      | p   | p    | p   | p    |     |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|          | 2602 A |     |     |     |     |     |      |     |      | yes | yes  | yes |      |     |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|          | 2603 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               | YES                       |               |                |                                     | YES                              |

| LEVEL        | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|--------------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|              | 2605 A |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               | YES                       |               |                |                                     | YES                              |
|              | 2606 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2607 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2608 A | yes | yes | yes | yes | yes | yes  | yes | yes  | p   | p    | p   | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2609 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2610 A |     |     |     |     |     |      |     |      |     |      | p   | p    | yes |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|              | 2601 B |     | yes | yes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
|              | 2602 B |     | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|              | 2603 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|              | 2605 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|              | 2606 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|              | 2607 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|              | 2608 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|              | 2609 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2610 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 27     | 2701 A |     |     |     |     | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2702 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2703 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2705 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     | YES           |                           |               |                |                                     |                                  |
|              | 2701 B | yes | yes | yes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|              | 2702 B |     | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|              | 2703 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|              | 2705 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|              | 2706 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|              | 2707 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|              | 2708 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|              | 2709 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|              | 2710 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEV<br>EL 28 | 2801 A |     |     |     |     | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|          | 2802 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2803 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2805 A | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  |     | YES           |                           |               |                |                                     |                                  |
|          | 2801 B | yes | yes | yes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 2802 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2803 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2805 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2806 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2807 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2808 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2809 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2810 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 29 | 2901 B | yes | yes | yes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 2902 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2903 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2905 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 2906 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 2907 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 2908 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 2909 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 2910 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          |        |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 30 | 3001 B | yes | yes | yes | yes | yes | p    |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3002 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3003 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3005 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3006 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 3007 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3008 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 3009 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 3010 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          |        |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               |                |                                     |                                  |

| LEVEL    | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14 | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
| LEVEL 31 | 3101 B | yes | yes | yes | yes | yes | p    | p   |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3102 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |    |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3103 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3105 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3106 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |    | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 3107 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |    |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3108 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |    |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 3109 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |    |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 3110 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3111 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 32 | 3201 B | yes | yes | yes | yes | yes | p    | p   |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3202 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |    |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3203 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3205 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3206 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |    | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 3207 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |    |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3208 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |    |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 3209 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |    |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 3210 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3211 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 33 | 3301 B | yes | yes | yes | yes | yes | p    | p   |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3302 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |    |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3303 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3305 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|          | 3306 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |    | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|          | 3307 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |    |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|          | 3308 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |    |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|          | 3309 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |    |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|          | 3310 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3311 B |     |     |     |     |     |      |     |      |     |      |     |      |    |      |     |      |     |               |                           |               |                |                                     |                                  |
| LEVEL 34 | 3401 B | yes | yes | yes | yes | yes | p    | p   |      |     |      |     |      |    |      |     |      |     |               |                           |               | YES            |                                     |                                  |
|          | 3402 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |    |      | yes | yes  | yes |               | YES                       |               |                |                                     |                                  |

| LEVEL     | UNIT   | 8   | 830 | 9   | 930 | 10  | 1030 | 11  | 1130 | 12  | 1230 | 13  | 1330 | 14  | 1430 | 15  | 1530 | 16  | >3 hrs<br>9-3 | >2 hrs 9-3<br>(>3hrs 8-4) | >2 hrs<br>9-3 | >2hrs<br>(8-4) | Complies<br>without<br>Charter Hall | Single<br>aspect<br>south facing |
|-----------|--------|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---------------|---------------------------|---------------|----------------|-------------------------------------|----------------------------------|
|           | 3403 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|           | 3405 B |     |     |     |     |     |      |     |      |     |      |     |      |     |      | yes | yes  | yes |               |                           |               |                |                                     |                                  |
|           | 3406 B |     |     | yes | yes | yes | yes  | yes |      |     |      |     |      |     | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|           | 3407 B |     |     | yes | yes | yes | yes  | yes | yes  |     |      |     |      |     |      |     | yes  | yes |               | YES                       |               |                |                                     |                                  |
|           | 3408 B |     |     | yes | yes | p   | p    | yes | yes  | yes |      |     |      |     |      |     |      |     |               |                           | YES           |                |                                     |                                  |
|           | 3409 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes |      |     |      |     |      |     | YES           |                           |               |                |                                     |                                  |
|           | 3410 B | yes | yes | yes | yes | yes |      |     |      |     |      |     |      |     |      |     |      |     |               |                           |               | YES            |                                     |                                  |
| LEVEL 35  | 3501 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|           | 3502 B |     |     | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|           | 3503 B |     |     |     |     | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|           | 3505 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
| LEVEL 36  | 3601 B | yes | yes | yes | yes | yes | yes  | yes |      |     |      |     |      |     |      |     |      |     |               | YES                       |               |                |                                     |                                  |
|           | 3602 B |     |     | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|           | 3603 B |     |     |     |     | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
|           | 3605 B | yes | yes | yes | yes | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | yes  | yes | YES           |                           |               |                |                                     |                                  |
| Total 535 |        |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     | 149           | 50                        | 33            | 50             | 38                                  | 42                               |
|           |        |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     | 27.9%         | 9.3%                      | 6.2%          | 9.3%           | 7.1%                                | 7.9%                             |
|           |        |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               | 199                       | 232           | 282            | 320                                 |                                  |
|           |        |     |     |     |     |     |      |     |      |     |      |     |      |     |      |     |      |     |               | 37.2%                     | 43.4%         | 52.7%          | 59.8%                               |                                  |

**KEY**

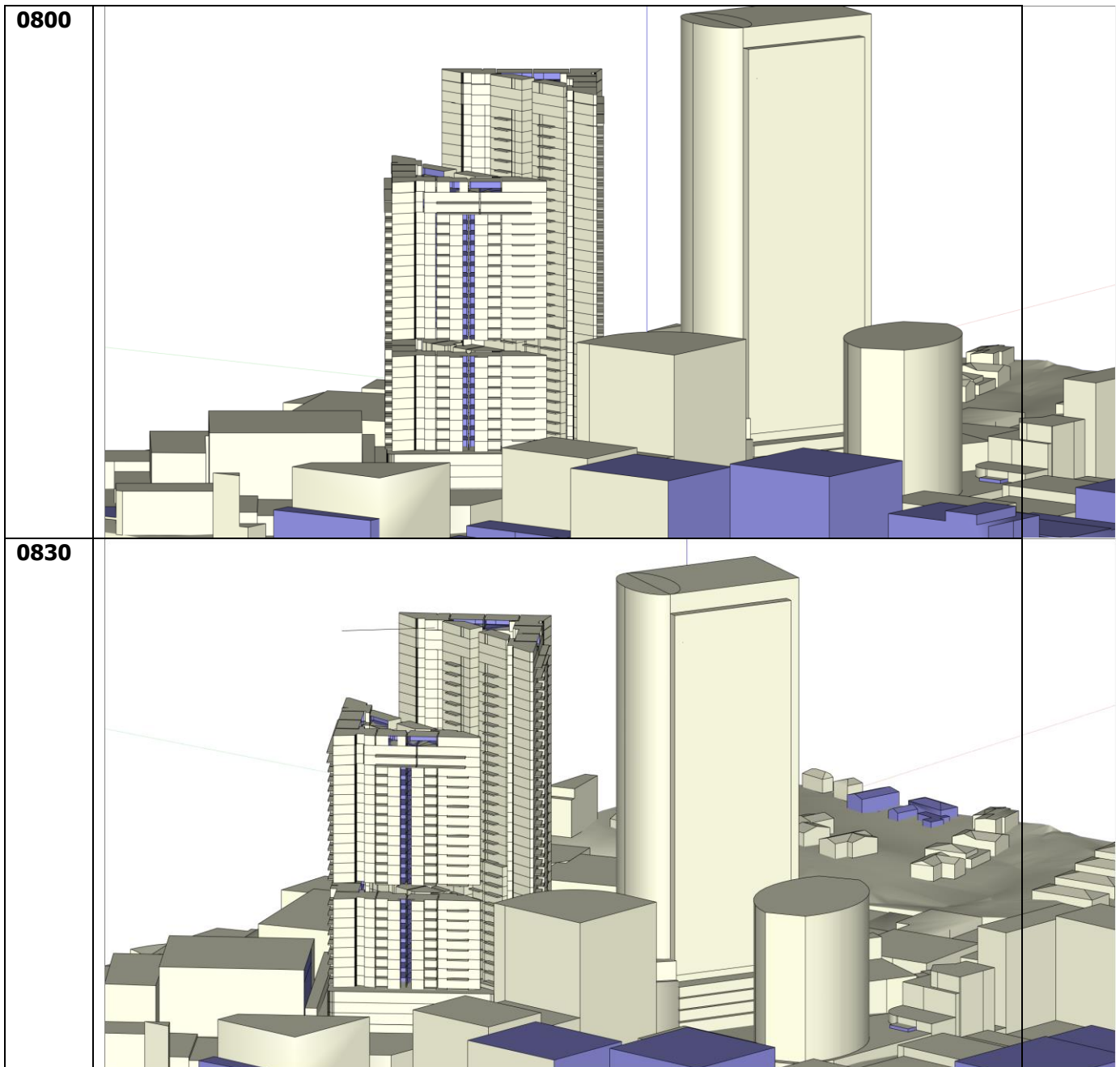
p Designates self shading by privacy screen

## B.0 APPENDIX B

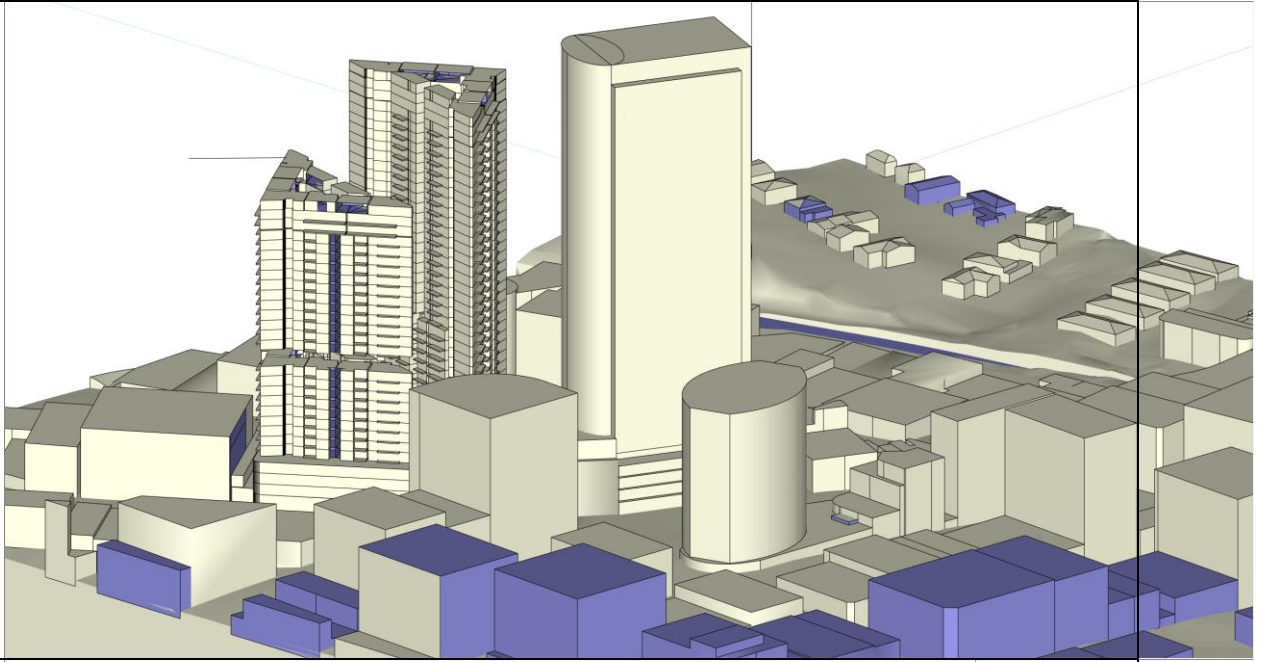
Views from the sun for analysis of solar access to apartments.

*Note that the model does not show privacy screens on the POS verandas. I have not included in my quantification of sun on the glazing sun that would be obstructed by those screens.*

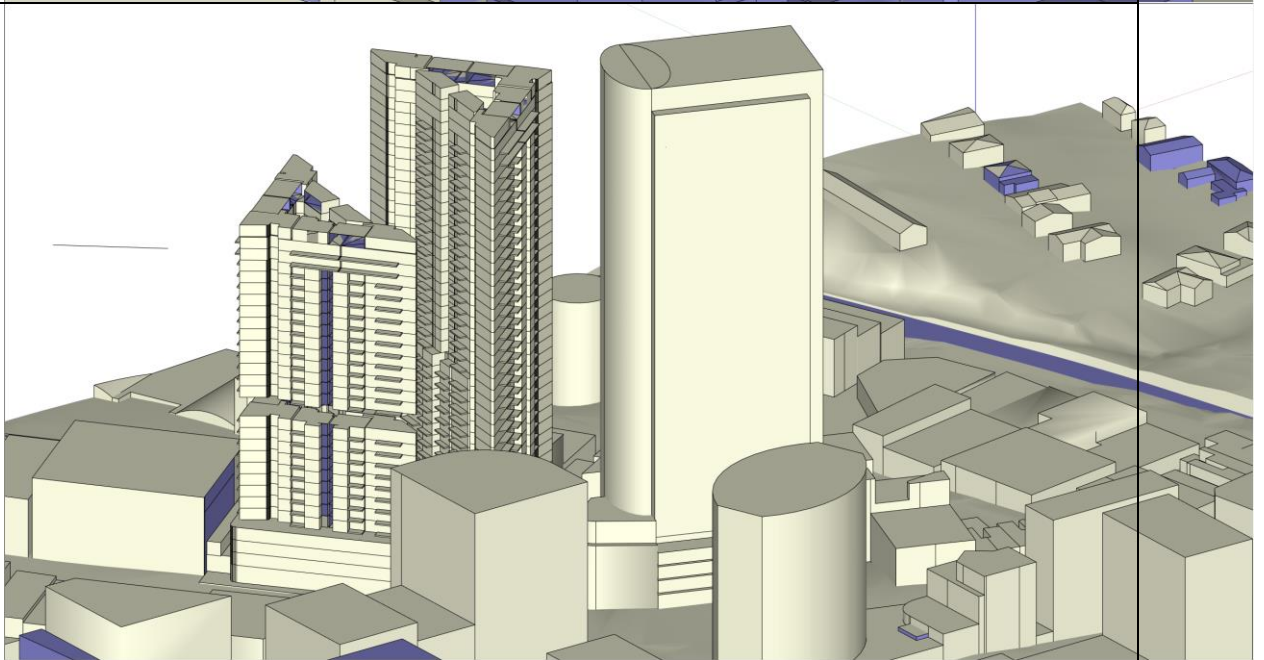
Table 3: Views from the sun

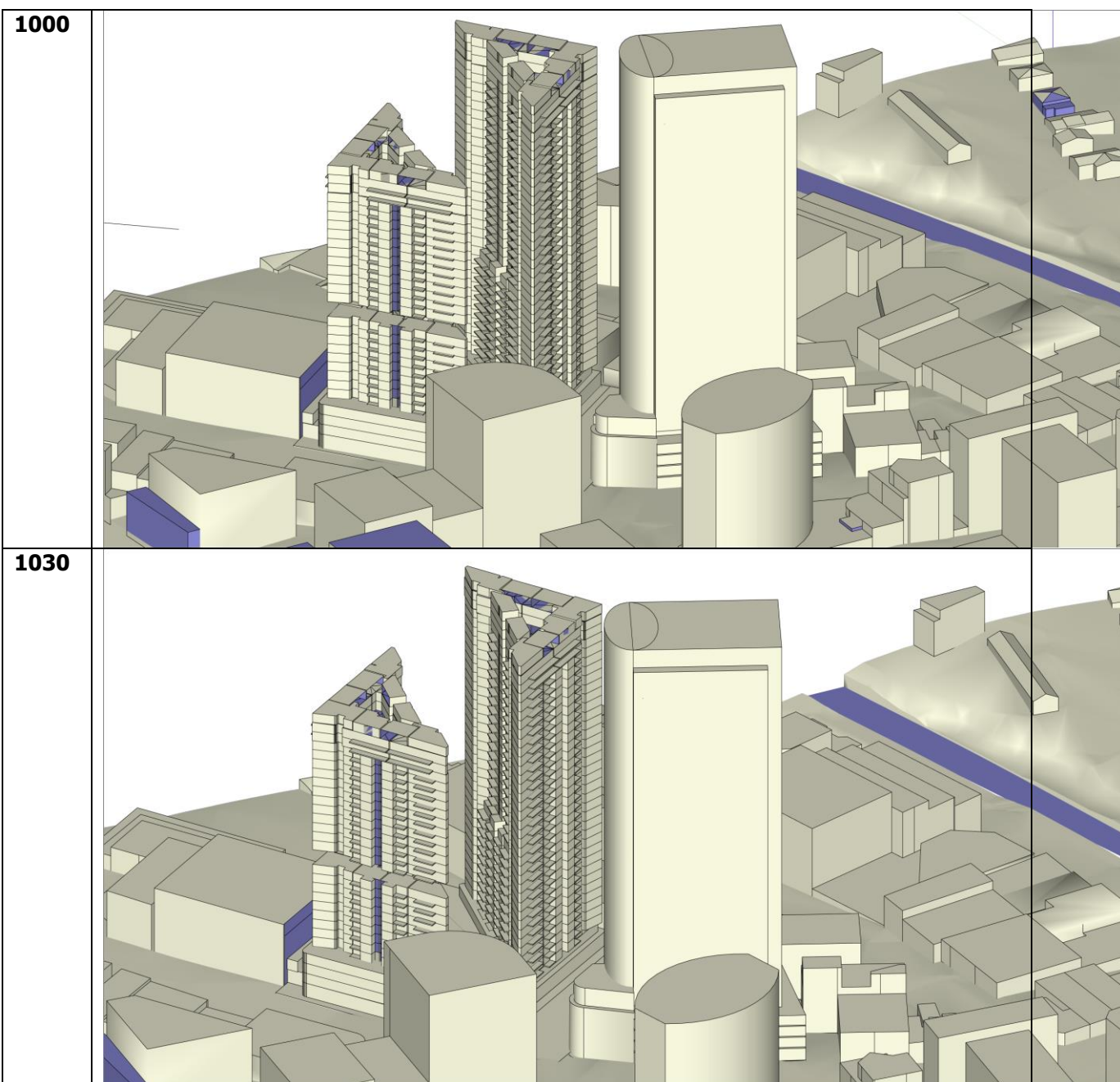


**0900**

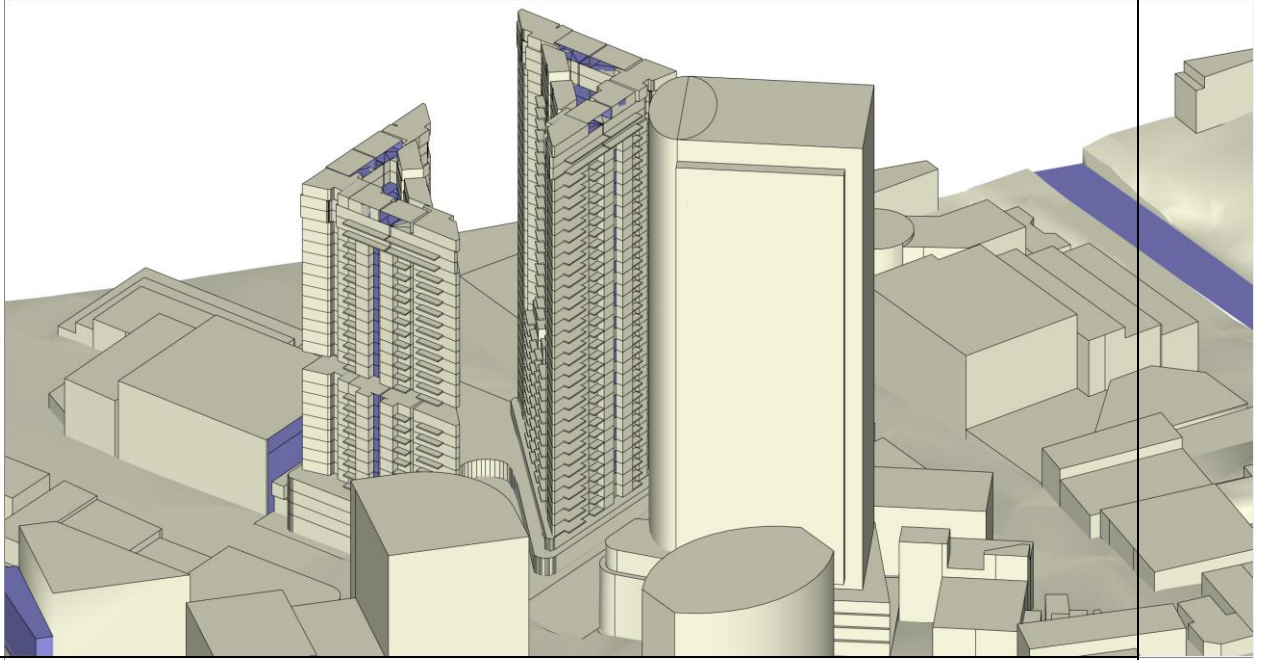


**0930**

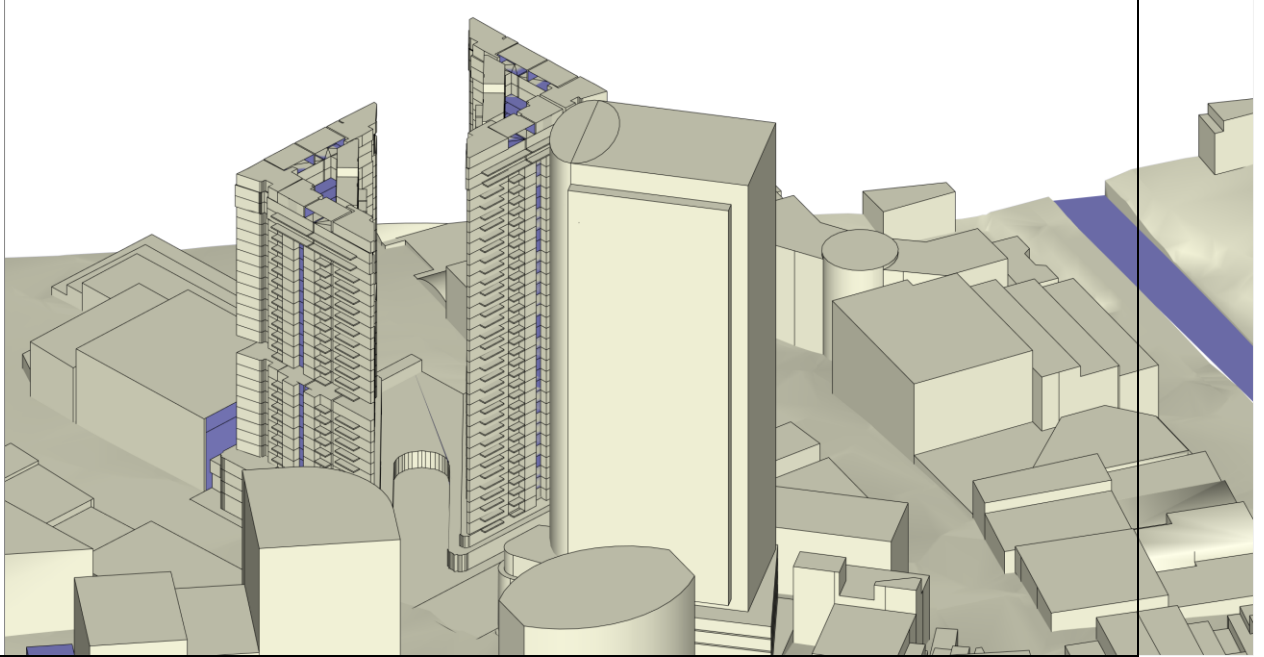




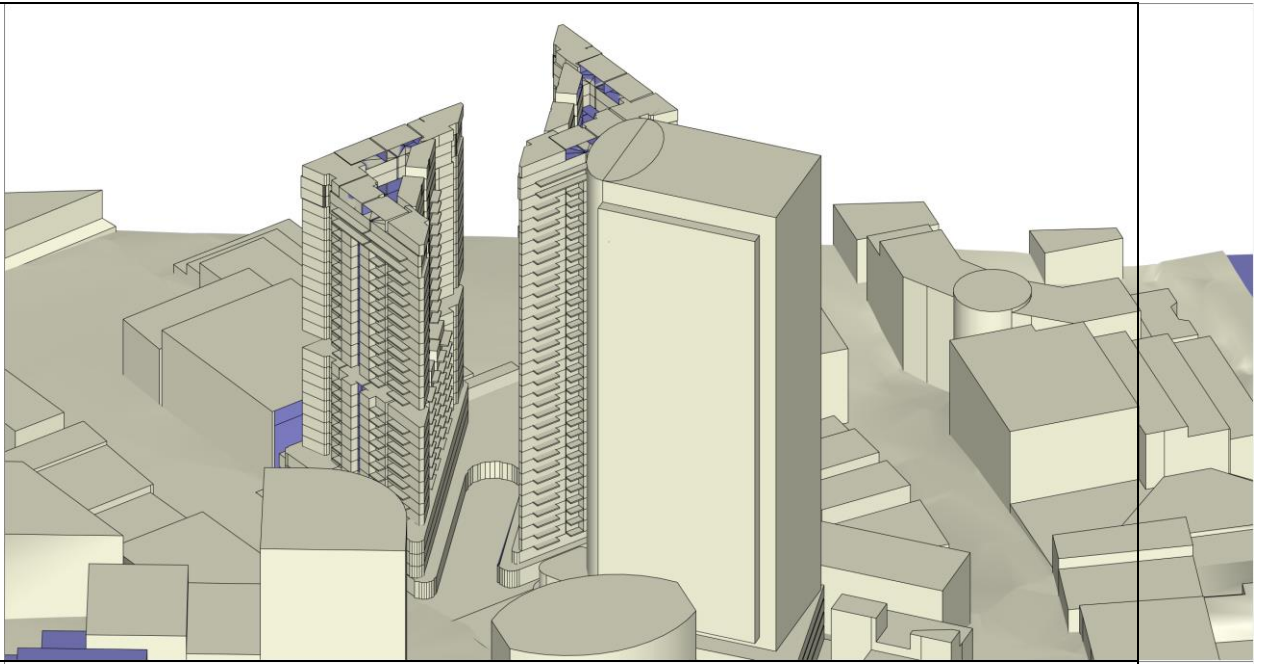
**1100**



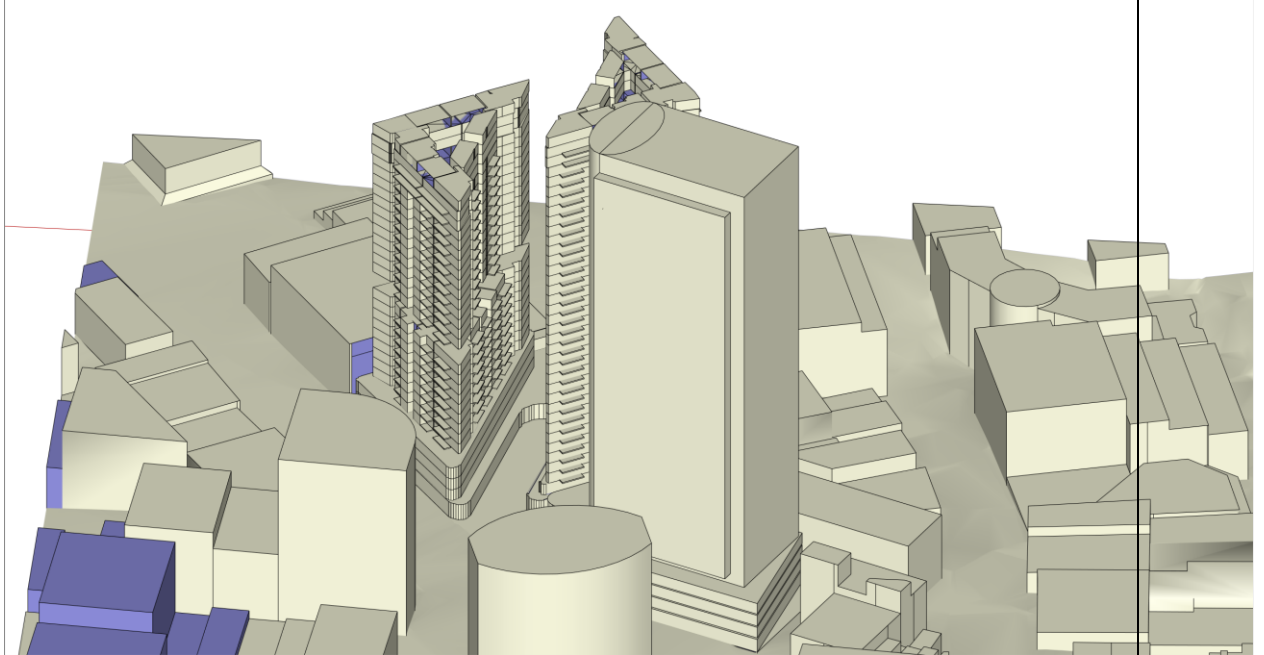
**1130**



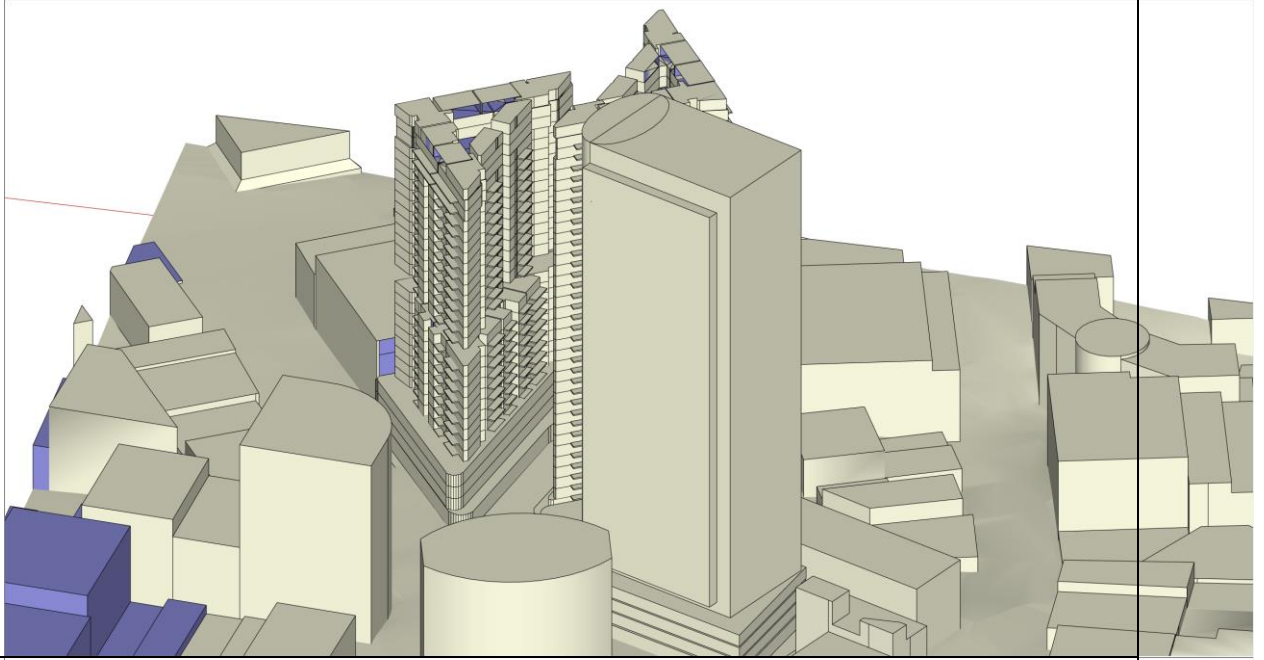
**1200**



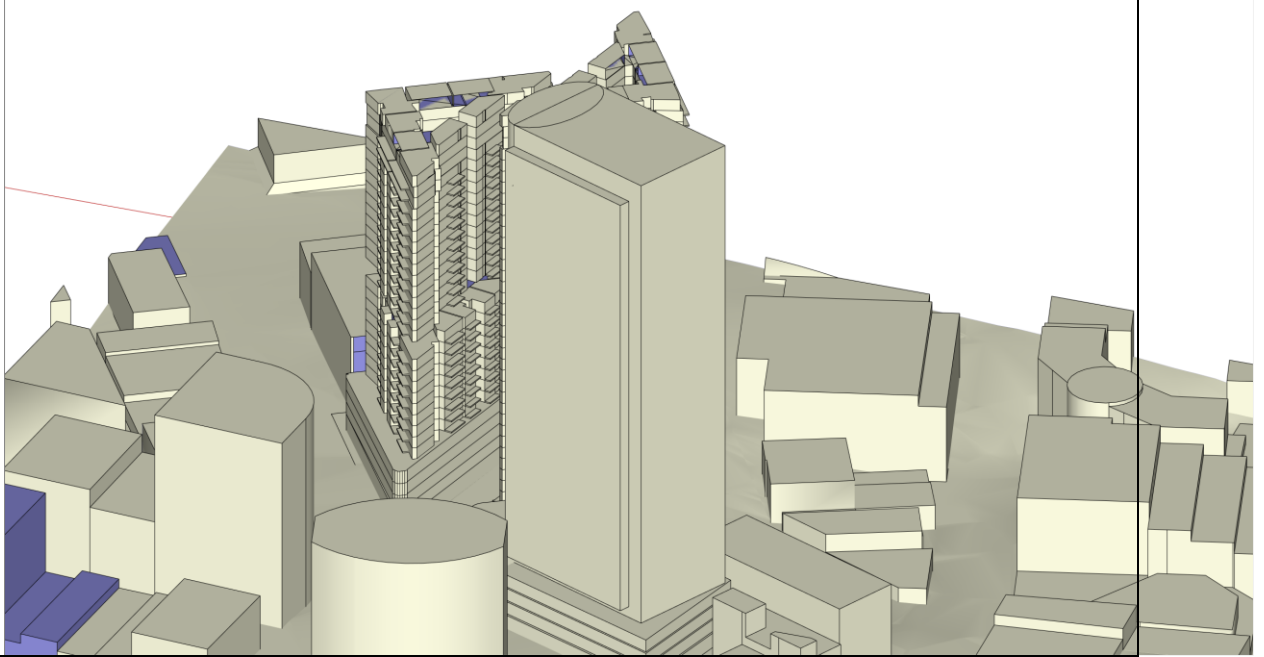
**1230**



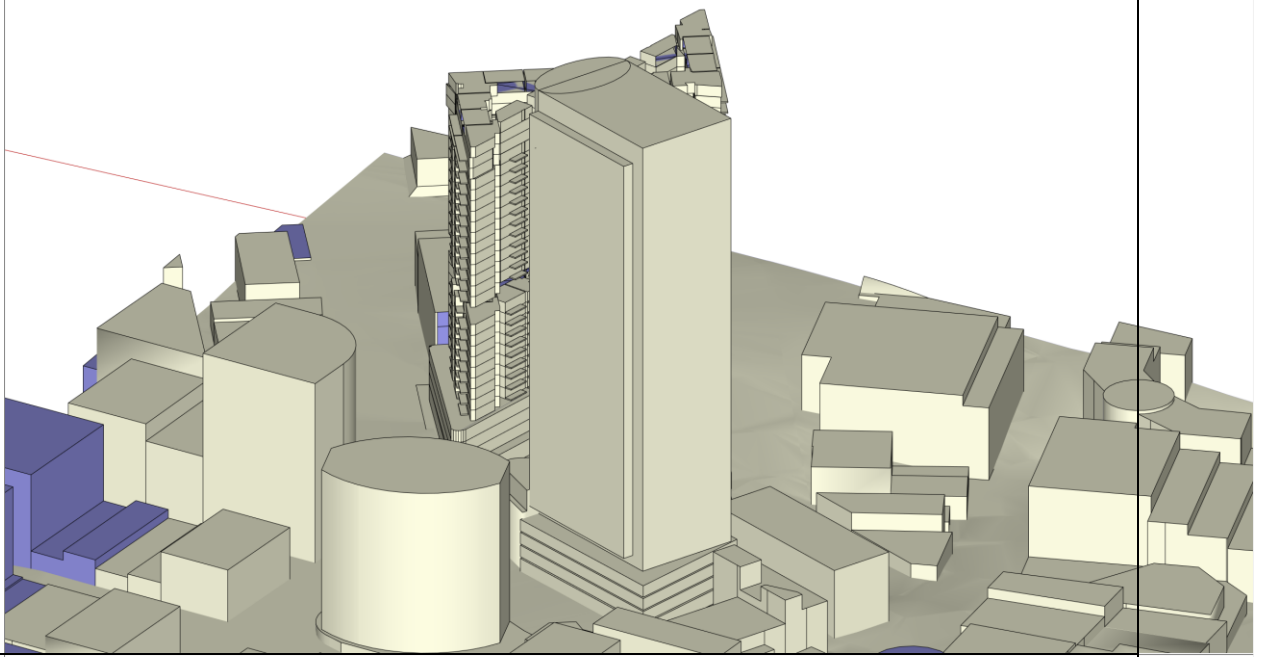
**1300**



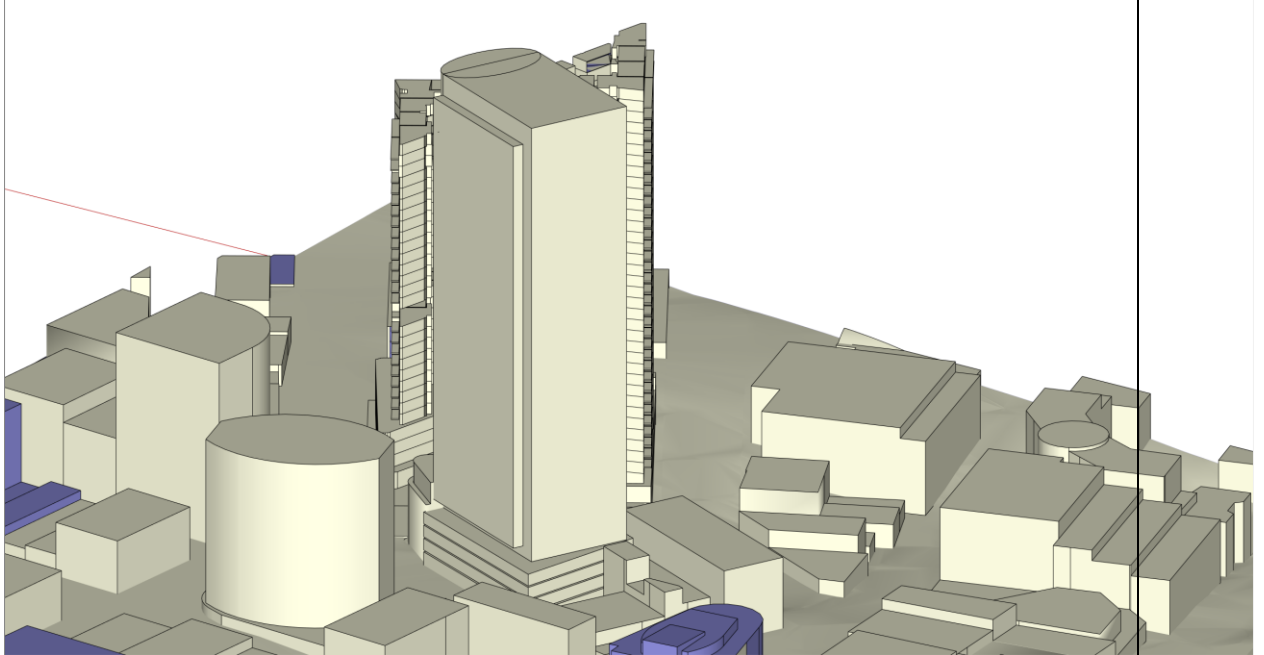
**1330**



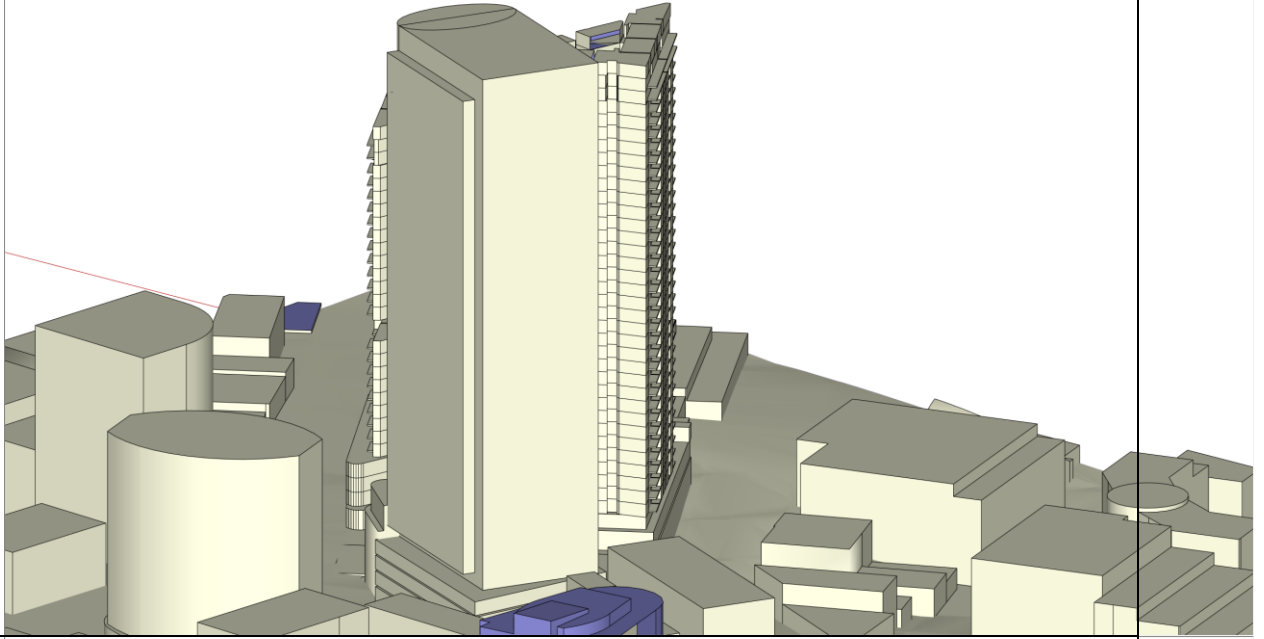
**1400**



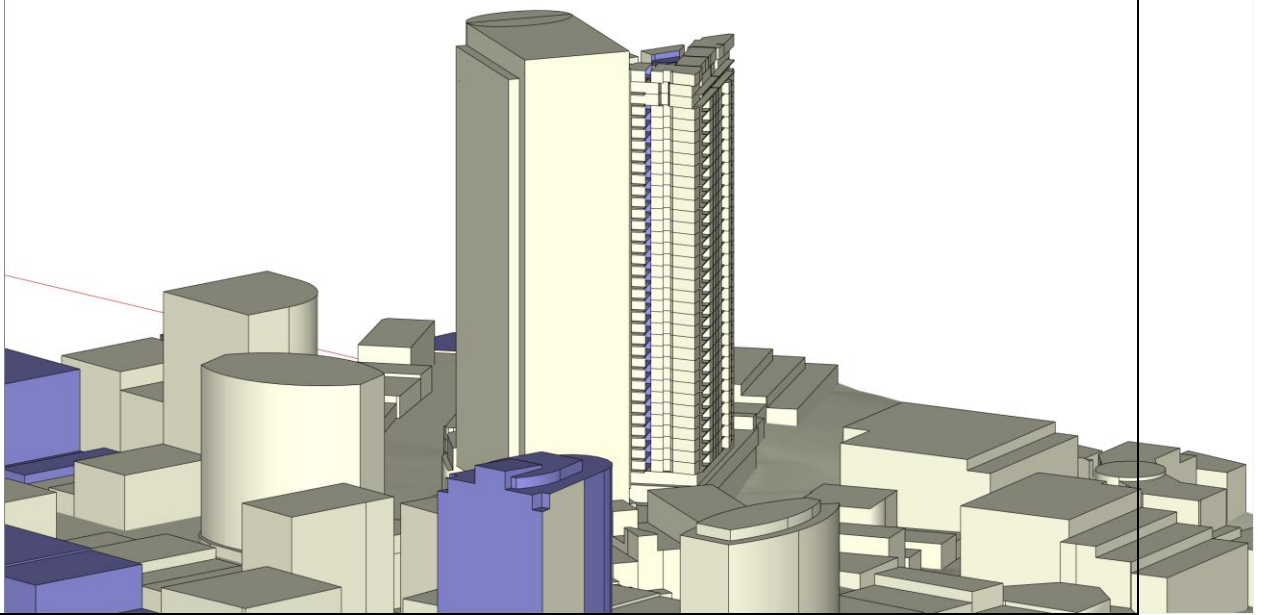
**1430**



**1500**



**1530**



**1600**

