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**REPORT FOR** MB Planning on behalf of Kelnic Industries Pty Ltd Atf Kelnic Property Trust and Nictay Investments Pty Ltd Atf Nictay Property Trust

**CONTACT** Brock Acworth

Signed



**Max Thorne**  
 Director - NMS

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## Executive Summary

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This Report is in response to a request from MB Planning for a noise impact assessment report on proposed extensions to the mixed use development at 215 Lancaster Road, Ascot (Lot 1 on RP130513). The site and neighbouring properties are within a CR2 Character Housing Zone. The proposal is to renovate residential areas on the First Floor; and construct new commercial facilities on the Ground Floor. The purpose of this Report is to assess noise impacts from the proposed new commercial activities onto nearby noise sensitive uses. The following Standards and policy documents are referenced:

- *Brisbane City Council City Plan 2014*
  - Small-Scale Non-Residential Uses Code
  - Multiple Dwelling Code
  - Noise Impact Assessment Planning Scheme Policy
- *Environmental Protection (Noise) Policy 2019*
- *Environmental Protection Act 1994*
- Australian Standard AS1055:2018 – *Acoustics: Description and measurement of environmental noise*

## Conclusions

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It is concluded that –

- Subject to the considerations as presented in this Report, it is then opinion of this consultancy that the proposed development can meet the requirements of the *Brisbane City Plan 2014*, and be otherwise compliant with relevant regulatory requirements.
- Cumulative noise emissions from the proposed new commercial activities are forecast to meet criteria at all receivers.
- The residential component can appropriately mitigate commercial noise immissions through construction in accordance with **AO21** of the Multiple Dwelling Code.
- The precise model(s) and installation of mechanical plant is yet to be determined. Detailed plant noise assessment can be conducted – if required – at the Building Approval stage once specifications have been finalised. The relative criterion is nonetheless considered readily achievable through appropriate plant selection and siting.

## Recommendations

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It is recommended that –

- The proposed extensions be approved for operations between 7am and 10pm, as compliant with the acoustic requirements of the *Brisbane City Plan 2014*.
- Doors to the new commercial tenancy remain generally closed except for ingress/egress.
- Ambient music (if any) be limited to background levels that do not interfere with normal conversation.
- Renovations to the residential component provide glazing that achieves acoustic performance of not less than:
  - Rw 35, where total area of glazing on the façade is greater than 1.8m<sup>2</sup>
  - Rw 32, where total area of glazing on the façade is less than or equal to 1.8m<sup>2</sup>
- External air conditioning plant (if any) be selected and installed to not exceed 38 dB(A) at nearby residences.

# 1. Introduction

This Report is in response to a request from MB Planning for a noise impact assessment report on proposed extensions to the mixed use development at 215 Lancaster Road, Ascot (Lot 1 on RP130513). The site and neighbouring properties are within a CR2 Character Housing Zone. The proposal is to renovate residential areas on the First Floor; and construct new commercial facilities on the Ground Floor. The purpose of this Report is to assess noise impacts from the proposed new commercial activities onto nearby noise sensitive uses. The following Standards and policy documents are referenced:

- *Brisbane City Council City Plan 2014*
  - Small-Scale Non-Residential Uses Code
  - Multiple Dwelling Code
  - Noise Impact Assessment Planning Scheme Policy
- *Environmental Protection (Noise) Policy 2019*
- *Environmental Protection Act 1994*
- Australian Standard AS1055:2018 – *Acoustics: Description and measurement of environmental noise*

Proposed hours of operation for the commercial component are 7am to 10pm, 7 days a week. Development plans are presented in **Appendix A**, while a glossary of terms and definitions is presented in **Appendix B**

## 1.1 Development Site and Locale

**Plate 1:** Showing the development site and locale (source: Google)

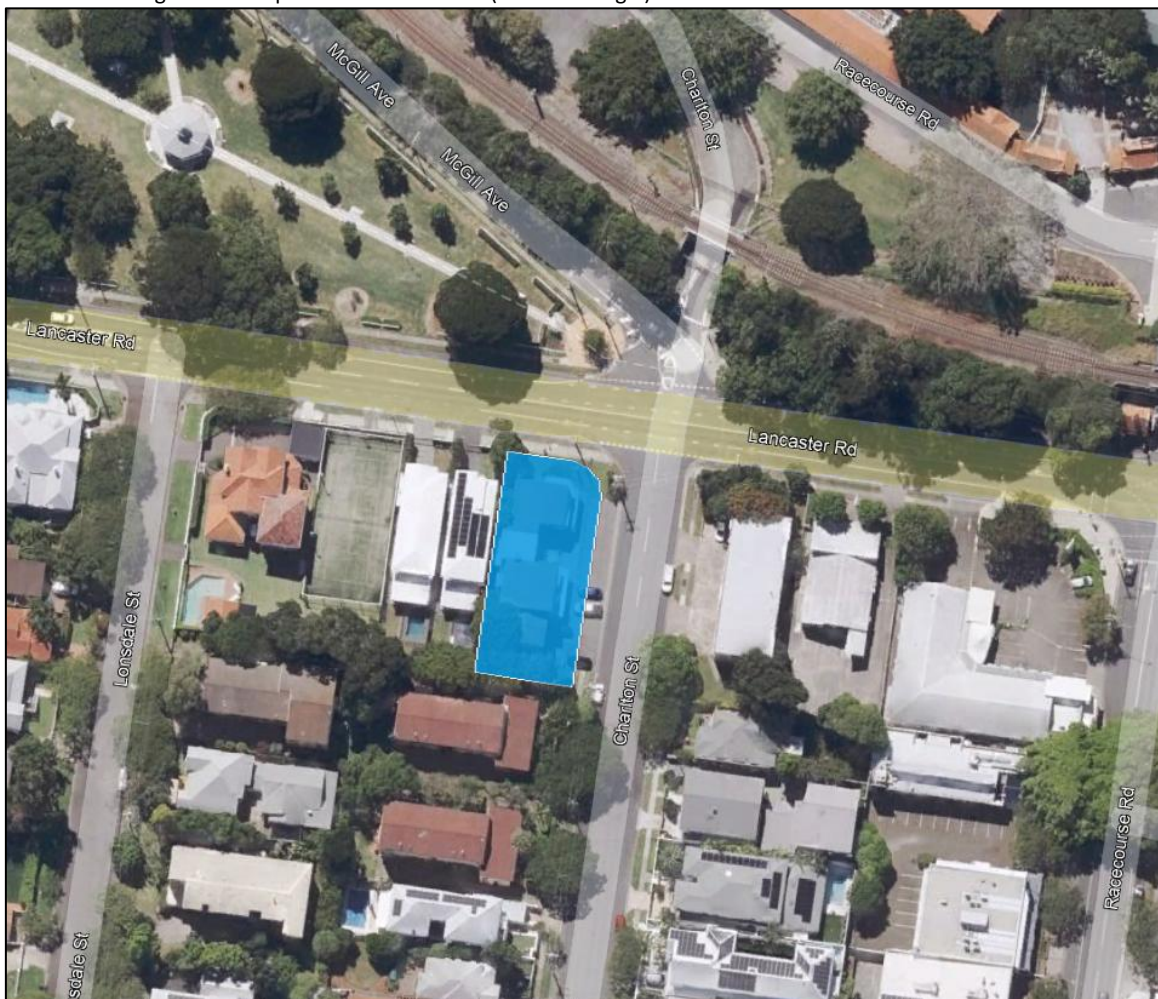


Plate 2: Showing zoning in the locale (source: Brisbane City Council)

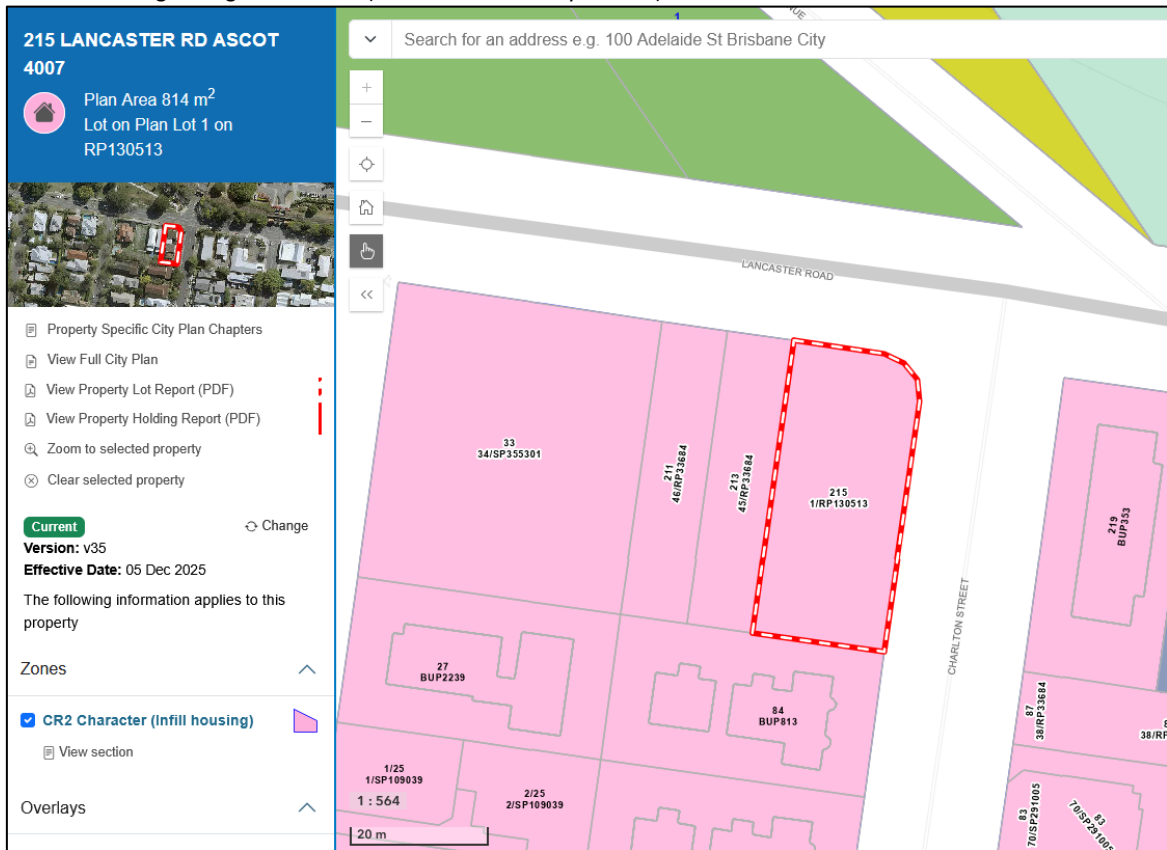
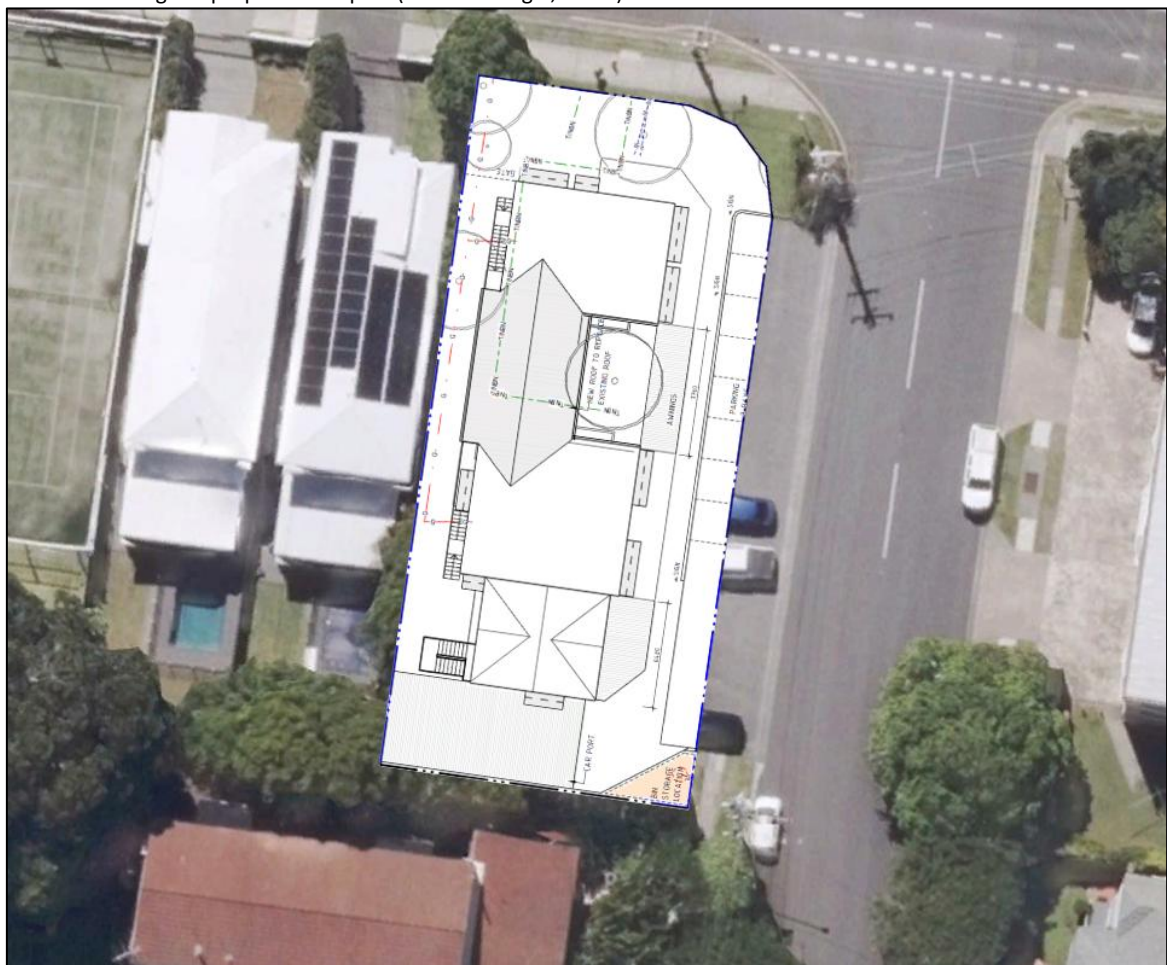


Plate 3: Showing the proposed site plan (source: Google; client)



## 1.2 Sensitive Receivers

The development site is located within a predominantly residential area, and nearby residences are identified as the most affected noise sensitive uses. Three receiver locations – referred to as R1 to R3 in this Report – have been assessed, representing the most exposed façades of these residential uses. The locations of R1 to R3 are presented in **Plate 4** and **Table 1** below.

**Plate 4:** Showing sensitive receivers R1 to R3



**Table 1:** Showing sensitive receivers R1 to R3 by Universal Transverse Mercator (UTM)

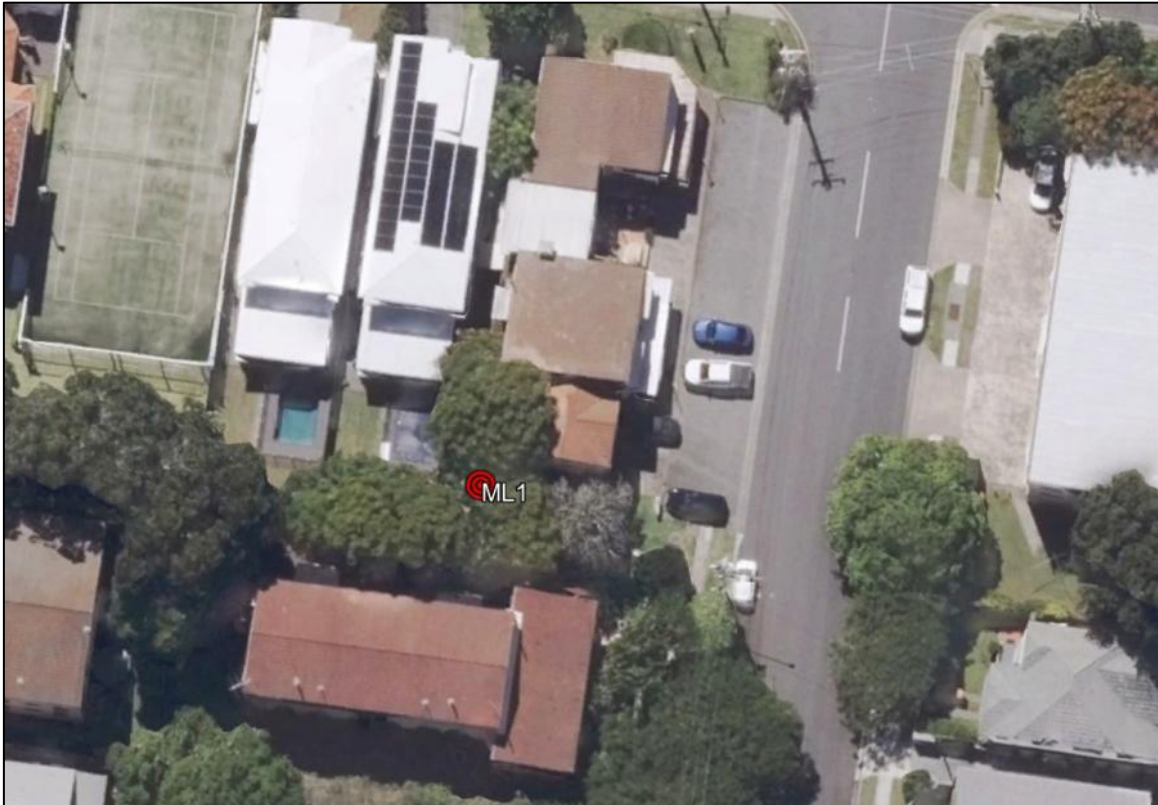
| Receiver | Address              | Coordinates |          | Zone |
|----------|----------------------|-------------|----------|------|
|          |                      | Easting     | Northing |      |
| R1       | 213 Lancaster Road   | 506351      | 6965782  | CR2  |
| R2       | 4/84 Charlton Street | 506359      | 6965767  | CR2  |
| R3       | 6/219 Lancaster Road | 506397      | 6965783  | CR2  |

## 2. Measurement of Ambient Noise Levels

### 2.1 Ambient Noise Survey – Measurement Procedures

In order to assess the existing acoustic environment in the locale, an ambient noise survey was conducted on site. The environmental noise logger was installed at a location 3.5m from the western boundary, and 3.5m from the southern boundary. The microphone was at a height of 1.5m in a free-field environment. Ambient noise levels at this location are considered representative of the most affected residential interface. The measurement location is referred to as ML1 in this Report, and is presented in **Plate 5** and **Photo 1** below.

**Plate 5:** Showing measurement location ML1 (source: Google)



**Photo 1:** Showing measurement location ML1



The noise logger was field calibrated before and after each measurement session, and no significant drift was observed from the reference signal. All instrumentation used in this assessment holds a current calibration certificate from a certified NATA calibration laboratory. The following instrumentation was used:

- Rion NL21 Class 2 environmental noise logger
- Larson Davis CAL200 Class 1 acoustic calibrator

Ambient sound pressure levels were measured generally in accordance with Australian Standard *AS1055.2018 - Acoustics-Description and measurement of environmental noise*. Ambient noise levels were recorded at 15 minute intervals between the 3<sup>rd</sup> and the 8<sup>th</sup> of April 2026.

## 2.2 Ambient Noise Survey – Measurement Results

**Table 2:** Averaged measured noise levels at ML1, 3<sup>rd</sup> – 8<sup>th</sup> April 2026. Levels are in dB(A), free-field

| Day                      | Date                  | Period           | L <sub>01</sub> | L <sub>10</sub> | L <sub>90</sub> | L <sub>eq</sub> |
|--------------------------|-----------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Friday                   | 3 <sup>rd</sup> April | 7:00am – 6:00pm  | 70              | 55              | 43              | 55              |
|                          |                       | 6:00pm – 10:00pm | 69              | 53              | 43              | 56              |
|                          |                       | 10:00pm – 7:00am | 58              | 44              | 37              | 47              |
| Saturday                 | 4 <sup>th</sup> April | 7:00am – 6:00pm  | 70              | 55              | 45              | 55              |
|                          |                       | 6:00pm – 10:00pm | 69              | 51              | 42              | 58              |
|                          |                       | 10:00pm – 7:00am | 62              | 43              | 37              | 47              |
| Sunday                   | 5 <sup>th</sup> April | 7:00am – 6:00pm  | 69              | 55              | 44              | 55              |
|                          |                       | 6:00pm – 10:00pm | 67              | 49              | 39              | 50              |
|                          |                       | 10:00pm – 7:00am | 59              | 43              | 37              | 48              |
| Monday                   | 6 <sup>th</sup> April | 7:00am – 6:00pm  | 69              | 54              | 43              | 54              |
|                          |                       | 6:00pm – 10:00pm | 68              | 49              | 40              | 50              |
|                          |                       | 10:00pm – 7:00am | 63              | 43              | 37              | 47              |
| Tuesday                  | 7 <sup>th</sup> April | 7:00am – 6:00pm  | 68              | 54              | 44              | 53              |
|                          |                       | 6:00pm – 10:00pm | 67              | 53              | 42              | 59              |
|                          |                       | 10:00pm – 7:00am | 62              | 44              | 37              | 48              |
| Wednesday                | 8 <sup>th</sup> April | 7:00am – 6:00pm  | 68              | 55              | 45              | 55              |
|                          |                       | 6:00pm – 10:00pm | 68              | 54              | 44              | 60              |
|                          |                       | 10:00pm – 7:00am | 64              | 43              | 37              | 48              |
| Arithmetic Average       |                       | <b>Day</b>       | <b>69</b>       | <b>55</b>       | <b>44</b>       | <b>54</b>       |
|                          |                       | <b>Evening</b>   | <b>68</b>       | <b>52</b>       | <b>42</b>       | <b>56</b>       |
|                          |                       | <b>Night</b>     | <b>61</b>       | <b>44</b>       | <b>37</b>       | <b>48</b>       |
| Rating Background Levels |                       | <i>Day</i>       | -               | -               | 42              | -               |
|                          |                       | <i>Evening</i>   | -               | -               | 39              | -               |
|                          |                       | <i>Night</i>     | -               | -               | 35              | -               |

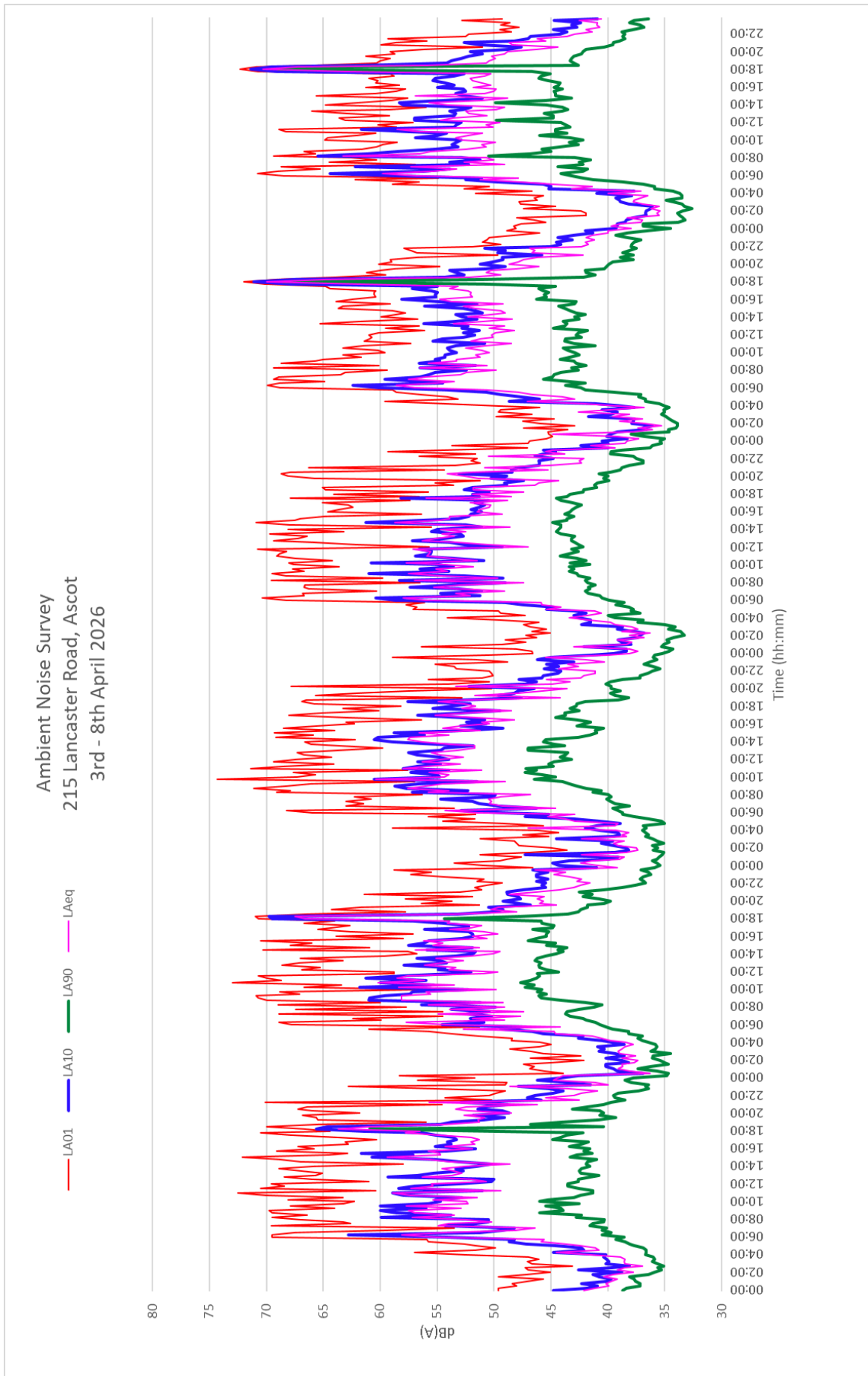


Figure 1: Ambient noise levels measured at ML1, 3<sup>rd</sup> – 8<sup>th</sup> April 2026. Levels are in dB(A) free-field

### 3. Noise Assessment Criteria

#### 3.1 Brisbane City Council City Plan 2014

##### 3.1.1 Small-Scale Non-Residential Uses Code

The *City Plan 2014* Small-Scale Non-Residential Uses Code (Part 9.3.23) provides guidance noise emission criteria to be achieved at sensitive uses. The relevant section of the Code is reproduced below.

**Table 3:** *Brisbane City Plan 2014 – Small-Scale Non-Residential Uses Code* (in part)

| Performance Outcomes  | Acceptable Outcomes  |
|---|--|
| <p><b>PO17</b></p> <p>Development is of a nature and scale which does not result in noise emissions that exceed the following criteria:</p> <p><math>L_{Aeq,adj,T}</math> emitted from the development is not greater than the rating background level plus 3 at the sensitive use.</p> <p>Where T is:</p> <ul style="list-style-type: none"> <li>• Day (7am to 6pm): 11 hr;</li> <li>• Evening (6pm to 10pm): 4 hr;</li> <li>• Night (10pm to 7am): 9hr.</li> </ul> <p>Where <math>L_{Aeq,adj,T}</math> is the A-weighted equivalent continuous sound pressure level during measurement time T, adjusted for tonal and impulsive noise characteristics, determined in accordance with the methodology described in the <a href="#">Noise impact assessment planning scheme policy</a>.</p> <p><b>Note</b>—Rating background level is to be determined in accordance with the methodology described in the <a href="#">Noise impact assessment planning scheme policy</a>.</p> <p><b>Note</b>—A noise impact assessment report prepared in accordance with the methodology described in the <a href="#">Noise impact assessment planning scheme policy</a> can assist in demonstrating achievement of this performance outcome.</p> | <p><b>AO17</b></p> <p>Development</p> <ol style="list-style-type: none"> <li>is conducted wholly within an enclosed building and does not involve outdoor activities;</li> <li>ensures mechanical plant or equipment is <b>acoustically screened</b> from adjoining <b>sensitive uses</b>.</li> </ol> <p>Note – Mechanical plant includes generators, motors, compressors and pumps such as air conditioning, refrigerator or coldroom motors.</p> |

Noise limits as per **PO17** have been calculated with reference to the Rating Background Levels measured at ML1, and presented in **Section 2** above. The ‘background plus 3’ methodology results therefore in noise emission limits of 45/42/38 dB(A)  $L_{eq,adj,T}$  during the day/evening/night period respectively.

## 3.1.2 Multiple Dwelling Code

The *City Plan 2014* Multiple Dwelling Code (Part 9.3.14) provides guidance to the assessment of ‘reverse amenity’ impacts from residential uses exposed to commercial noise immissions. The relevant section of the Code is reproduced below.

**Table 4:** *Brisbane City Plan 2014 – Multiple Dwelling Code* (in part)

| Performance Outcomes   | Acceptable Outcomes  |
|--|--|
| <p><b>PO21</b><br/>Development in a zone in the centre zones category or the Mixed use zone must:</p> <ol style="list-style-type: none"> <li>a. be located, designed and constructed to protect bedrooms and other <b>habitable rooms</b> from exposure to noise arising from non-residential activities outside the building;</li> <li>b. be designed and constructed to achieve a minimum reduction in sound pressure level between the exterior of the building and bedrooms or indoor primary living areas of 30 dB(A).</li> </ol> <p><b>Note</b>—A noise impact assessment report prepared in accordance with the methodology described in the <a href="#">Noise impact assessment planning scheme policy</a> can assist in demonstrating achievement of this performance outcome.</p> <p><b>Note</b>— Site-specific criteria will be identified in a neighbourhood plan for sites within a Special Entertainment Precinct Area or within the <a href="#">Transport noise corridor overlay</a>.</p> | <p><b>AO21</b><br/>Development in a zone in the centre zones category or the Mixed use zone has a minimum acoustic performance of:</p> <ol style="list-style-type: none"> <li>a. Rw 35 for glazing (windows and doors) where total area of glazing is greater than 1.8m<sup>2</sup>,</li> <li>b. Rw 32 for glazing (windows and doors) where total area of glazing is less than or equal to 1.8m<sup>2</sup>.</li> </ol> |

Although the site is not located within a Centre or Mixed Use Zone, the existing Approval includes commercial activity that may impact the acoustic amenity of residents within the site (“on-site”). Performance Outcome **PO21** is therefore considered appropriate for the assessment of ‘reverse amenity’ noise impacts from commercial activity onto on-site residents.

It is further noted that the development plans show rendered finishes to the external façades, and that the wall construction is considered to provide appropriate attenuation of external noise immissions. On this basis, the glazing requirements as per **AO21** are considered a suitable methodology for achieving the Noise Reduction required under **PO21-b**.

### 3.2 Environmental Protection (Noise) Policy 2019

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The *Environmental Protections (Noise) Policy 2019* establishes Acoustic Quality Objectives (AQO) to protect or enhance stated environmental values. The environmental values to be enhanced or protected under the policy are the qualities of the acoustic environment that are conducive to protecting the health and biodiversity of ecosystems; and the qualities of the acoustic environment that are conducive to human health and well-being, including ensuring a suitable acoustic environment for individual's to sleep, study and learn, to be involved in recreation including relaxation and conversation; and the qualities of the acoustic environment that are conducive to protecting the amenity of the community.

The acoustic quality objectives do not apply to noise from aircraft movement, noise from the ordinary use of a public road or State-controlled road and noise from the ordinary use of a busway, light rail or rail transport infrastructure. It is furthermore noted that Brisbane City Council provides specific criteria for the assessment of noise emissions from the development onto nearby sensitive uses, and that the AQO are not intended to override Council policies, where in force. Application of BCC policy is therefore considered to achieve the policy intent of the *Environmental Protection (Noise) Policy 2019*.

### 3.3 Environmental Protection Act 1994

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It is unknown whether additional air conditioning is to be installed for the new commercial tenancy. State requirements for mechanical plant are set out under the *Environmental Protection Act 1994*; in that Act noise from air conditioning must not exceed the following noise levels when measured as the LA90 dB(A) level over a period of 15 minutes at an affected building:

- Between 10pm and 7am: 3 dB(A) above the background level
- From 7am to 10pm: 5 dB(A) above the background level

To meet both State and Council requirements, it is recommended that new air conditioning plant (if any) be selected, installed and – if necessary – screened to not exceed 38 dB(A) at neighbouring residential uses.

Detailed plant noise assessment can be conducted – if required – at the Building Approval stage, once plant specifications can be determined. The criterion is nonetheless considered readily achievable through appropriate plant selection, siting and (if necessary) screening. As the *Environmental Protection Act 1994* represents a continuing obligation, it is further recommended that plant be appropriately maintained to ensure ongoing compliance.

## 4. Noise Impact Assessment

The following sources of potentially intrusive noise emissions have been identified with proposed extensions:

- Dining activity at the central outdoor area
- Patron noise (talking/laughing) during arrival/departure from site
- Increased parking activity
- Breakout from activities within the new commercial tenancy
- Air conditioning and other mechanical plant

The precise model and installation of new air conditioning (if any) is not known at this stage. To meet both State and Council criteria, it is recommended that mechanical plant be selected and sited to not exceed 38 dB(A) at sensitive receivers. Detailed plant noise assessment can be conducted – if required – at the Building Approval stage once specifications can be determined. It is nonetheless concluded that the relevant criterion is readily achievable through appropriate plant selection, siting and installation. Design sound power levels for the remaining identified sources are presented in **Table 5**, with noise emission calculations presented in the **sections** following.

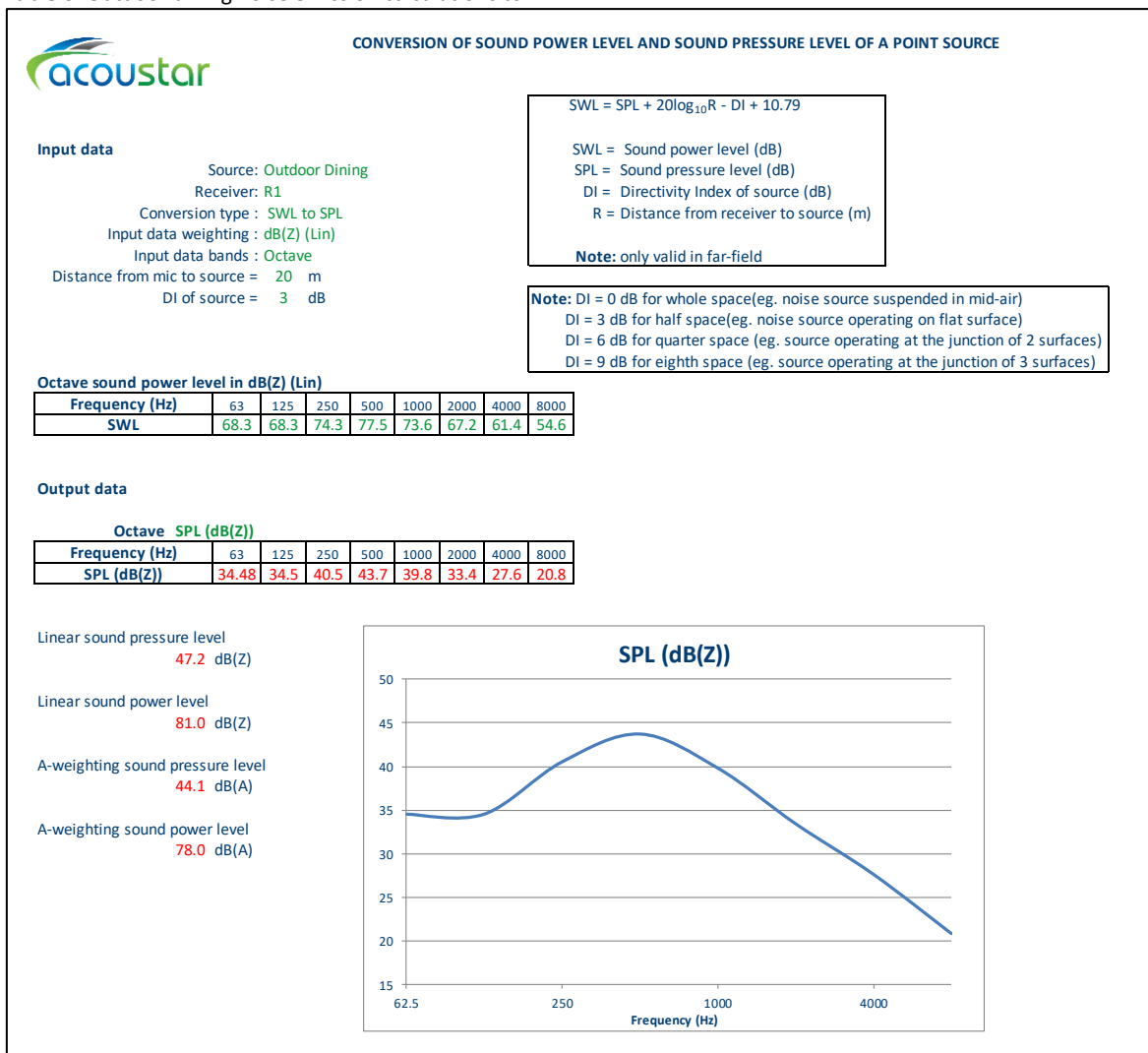
**Table 5:** Design source sound power levels. Levels are in dB(A)  $L_{eq}$

| Name                        |                                    |       | Sound Power Levels |        |        |        |      |       | Total in dB(A) |       |           |
|-----------------------------|------------------------------------|-------|--------------------|--------|--------|--------|------|-------|----------------|-------|-----------|
|                             |                                    |       | 63 Hz              | 125 Hz | 250 Hz | 500 Hz | 1kHz | 2 kHz |                | 4 kHz | 8 kHz     |
| Outdoor Dining (15 patrons) |                                    |       | 68                 | 68     | 74     | 77     | 74   | 67    | 61             | 55    | <b>78</b> |
| Patron activity             |                                    |       | 56                 | 56     | 62     | 65     | 62   | 57    | 52             | 46    | <b>66</b> |
| Parking activity            |                                    |       | 60                 | 70     | 58     | 58     | 64   | 65    | 65             | 61    | <b>71</b> |
| Commercial Breakout         | Open Doors                         | East  | 65                 | 64     | 70     | 72     | 67   | 62    | 56             | 49    | <b>72</b> |
|                             |                                    | West  | 58                 | 57     | 63     | 65     | 60   | 54    | 49             | 41    | <b>65</b> |
|                             | Closed Doors                       | East  | 59                 | 64     | 57     | 55     | 47   | 46    | 32             | 21    | <b>56</b> |
|                             |                                    | South | 58                 | 53     | 55     | 55     | 53   | 39    | 25             | 18    | <b>56</b> |
|                             |                                    | West  | 56                 | 51     | 53     | 50     | 44   | 35    | 26             | 20    | <b>51</b> |
|                             | Total                              | East  | 66                 | 67     | 70     | 72     | 67   | 62    | 56             | 49    | <b>72</b> |
|                             |                                    | South | 58                 | 53     | 55     | 55     | 53   | 39    | 25             | 18    | <b>56</b> |
|                             |                                    | West  | 60                 | 58     | 63     | 65     | 60   | 55    | 49             | 42    | <b>65</b> |
|                             | <b>Sound Pressure Levels at 1m</b> |       |                    |        |        |        |      |       |                |       |           |
| Outdoor Dining              |                                    |       | 61                 | 61     | 67     | 70     | 66   | 59    | 54             | 47    | <b>70</b> |
| Patron activity             |                                    |       | 48                 | 48     | 55     | 58     | 54   | 49    | 44             | 38    | <b>59</b> |
| Parking activity            |                                    |       | 52                 | 62     | 50     | 50     | 57   | 57    | 57             | 53    | <b>63</b> |
| Commercial Breakout         | Open Doors                         | East  | 57                 | 56     | 62     | 64     | 59   | 54    | 48             | 41    | <b>64</b> |
|                             |                                    | West  | 50                 | 49     | 55     | 57     | 52   | 47    | 41             | 34    | <b>57</b> |
|                             | Closed Doors                       | East  | 51                 | 56     | 49     | 47     | 39   | 38    | 24             | 13    | <b>48</b> |
|                             |                                    | South | 50                 | 45     | 47     | 47     | 45   | 31    | 17             | 10    | <b>48</b> |
|                             |                                    | West  | 48                 | 43     | 45     | 42     | 37   | 27    | 18             | 13    | <b>43</b> |
|                             | Total                              | East  | 58                 | 59     | 62     | 64     | 60   | 54    | 48             | 41    | <b>65</b> |
|                             |                                    | South | 50                 | 45     | 47     | 47     | 45   | 31    | 17             | 10    | <b>48</b> |
|                             |                                    | West  | 52                 | 50     | 55     | 57     | 52   | 47    | 41             | 34    | <b>57</b> |

## 4.1 Outdoor Dining

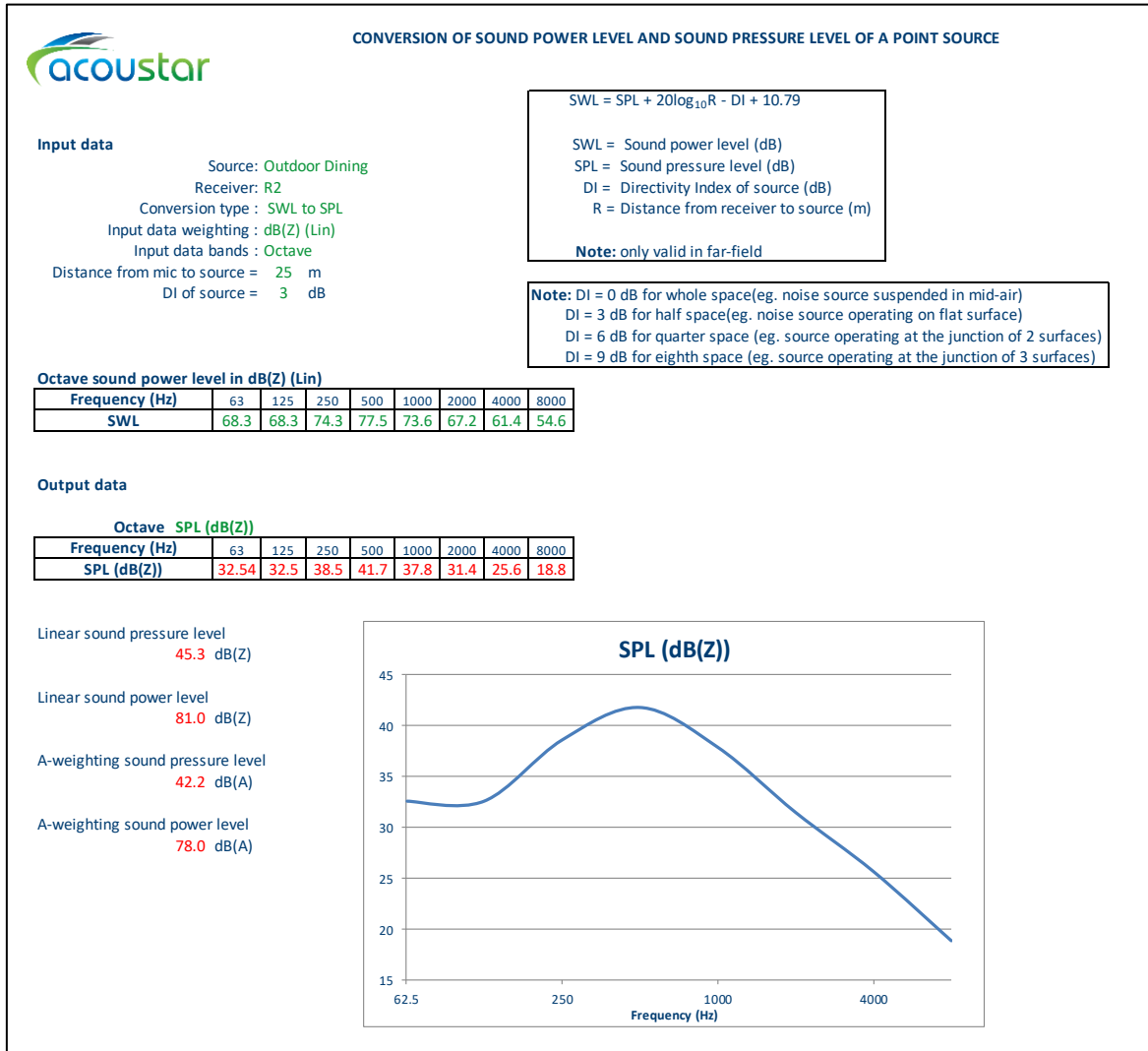
Potential noise impacts from the outdoor dining area at the Ground Floor have been assessed assuming 15 patrons engaged in simultaneous and continuous activity throughout the entire hours of operation<sup>1</sup>. As a conservative design assumption, no allowance has been made for periods of reduced or minimal activity, although this is expected to typically occur. It is also assumed and recommended that ambient music – if any – be limited to background levels below that which would interfere with normal conversation. While the outdoor dining area is exposed to receivers located across Charlton Street to the east, the building envelope fully screens neighbours to the south and west, and a nominal 15 dB(A) of barrier attenuation can be assumed to receivers in that direct. Noise emission calculations are presented below.

**Table 6:** Outdoor dining noise emission calculations to R1

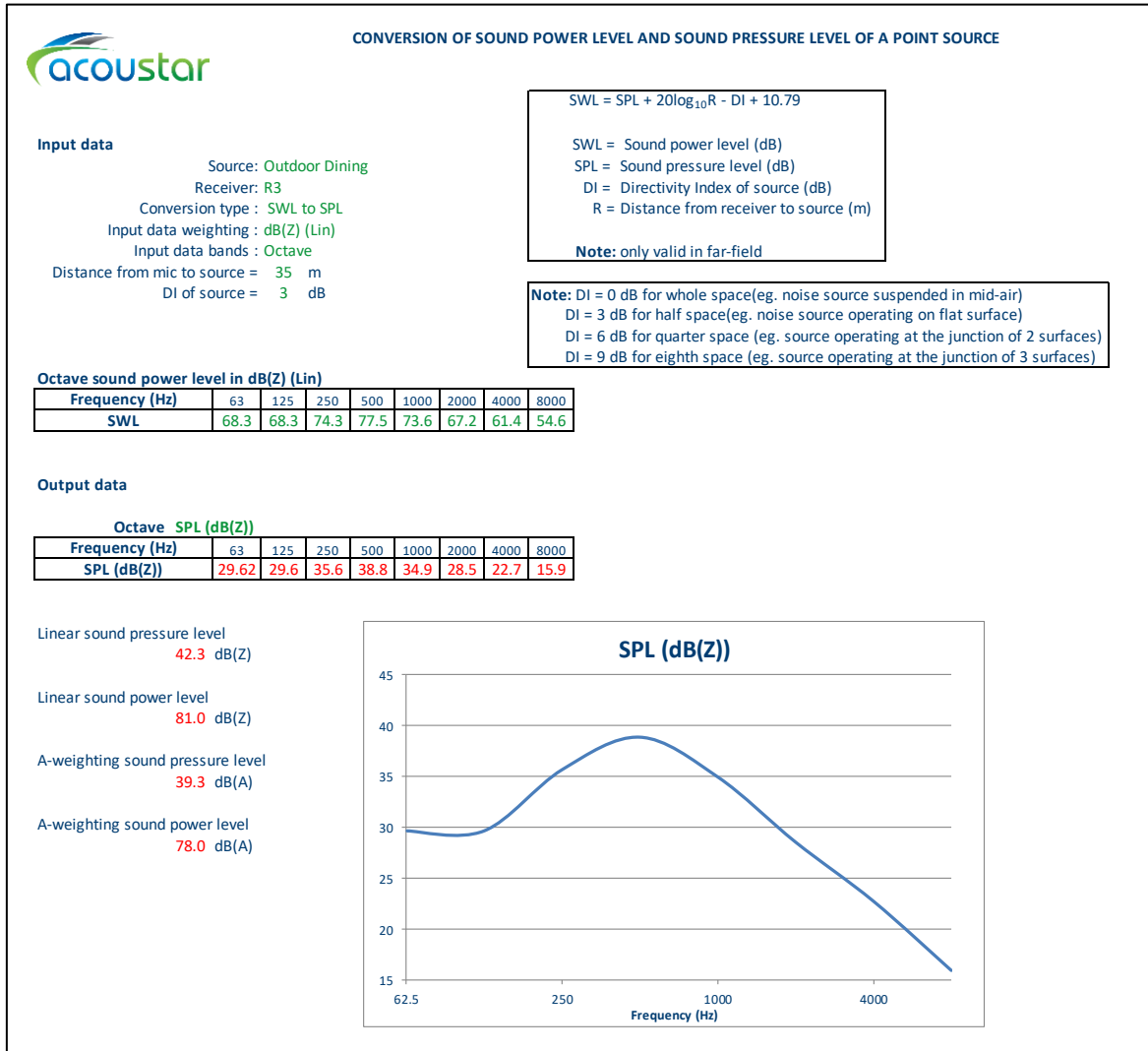


<sup>1</sup> Levels as per Carati et al, "Characterization of sound power level of speech from restaurants in outdoor", **ICSV23**, Athens 2016, with random orientation and 'raised male voices' as per the AAAC Licensed Premises and Patron Noise Assessment Technical Guideline v3

**Table 7:** Outdoor dining noise emission calculations to R2



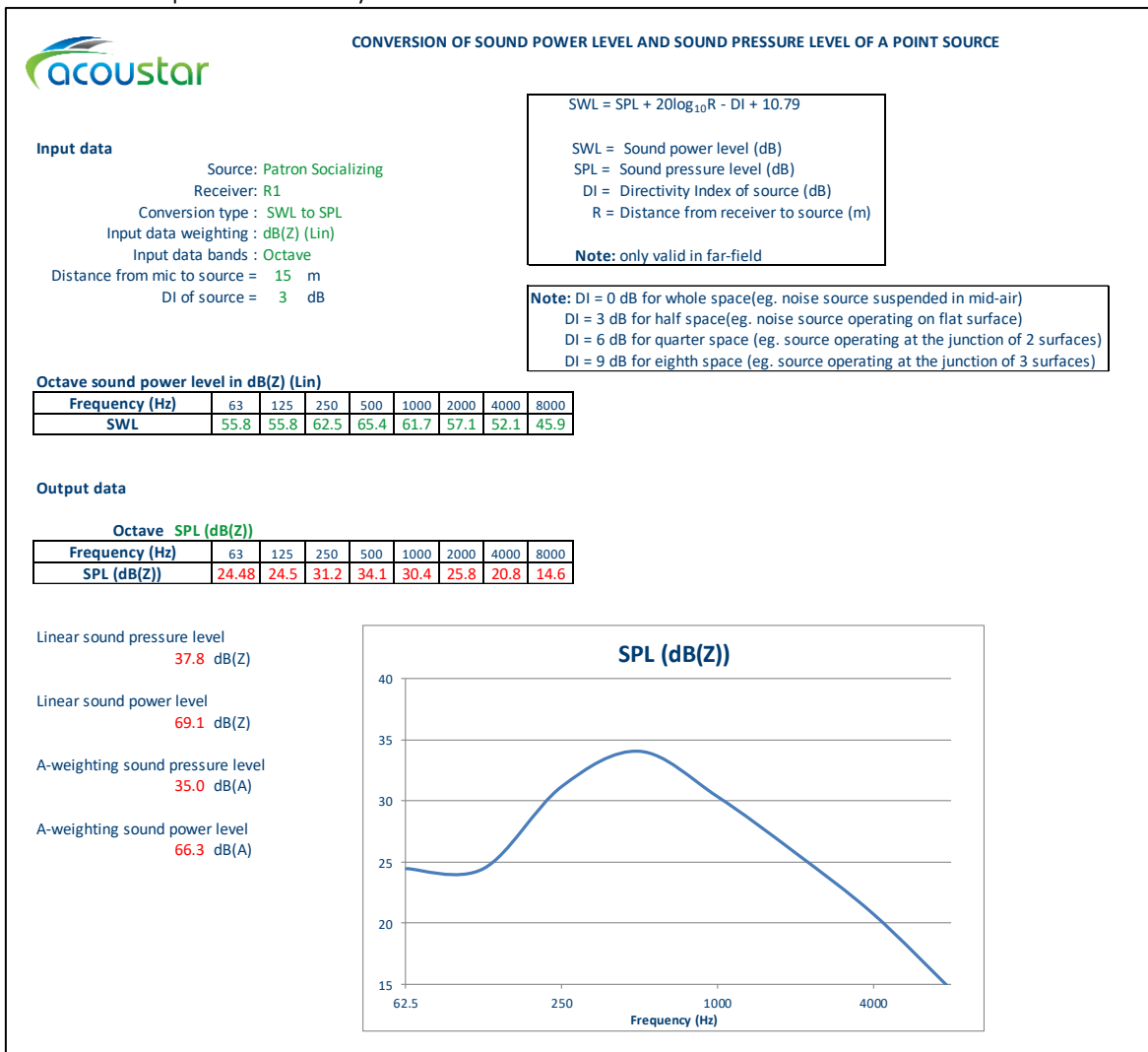
**Table 8:** Outdoor dining noise emission calculations to R3



## 4.2 Patron Activity

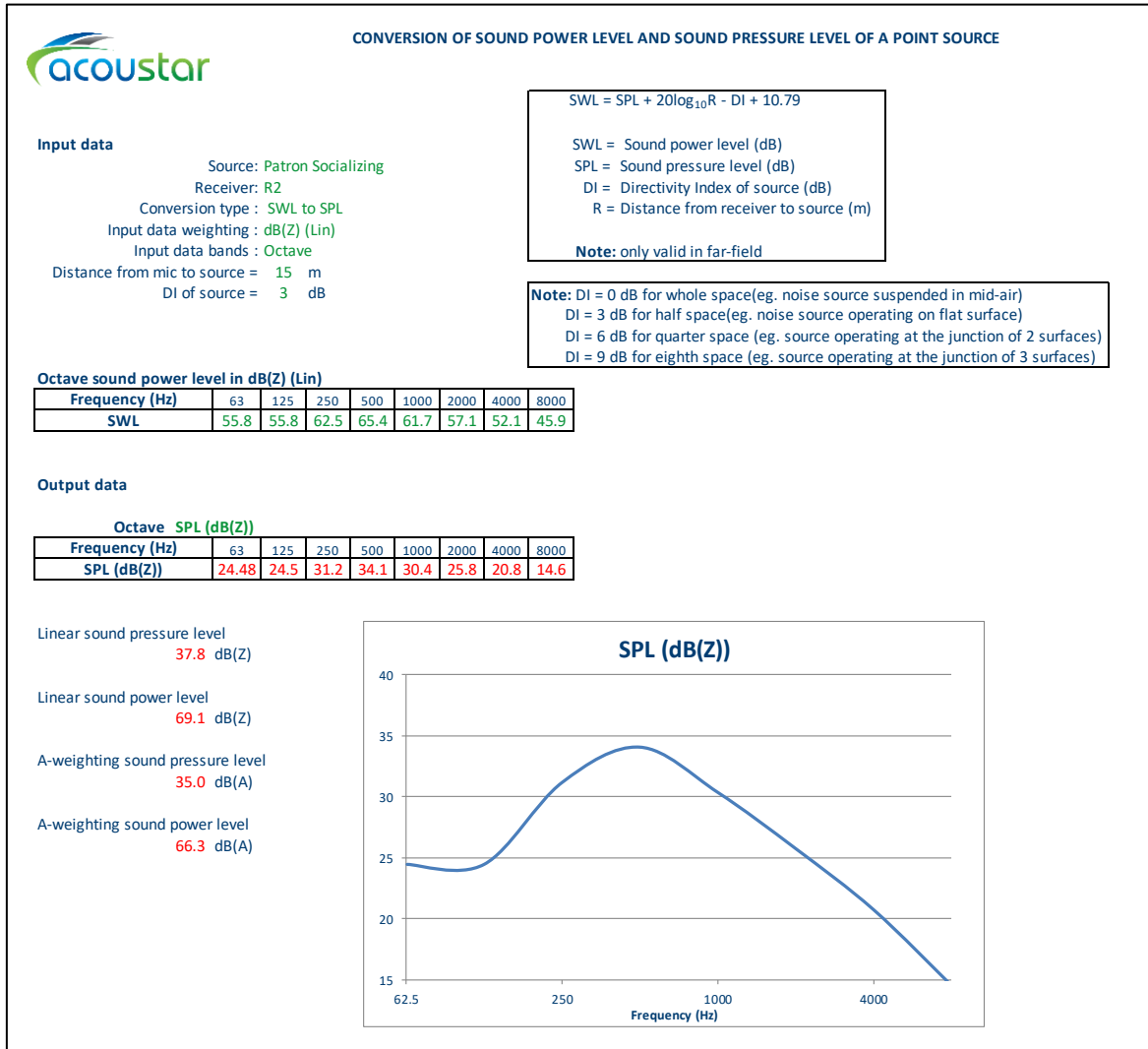
Outdoor vocal activity from patrons – apart from the outdoor dining assessed in **Section 4.1** above – is expected to be minimal, and limited to patrons entering and leaving the site. This notwithstanding – and as a conservative design assumption – vocal activity from a ‘raised male voice’<sup>2</sup> at the footpath or parking areas has been assumed to occur for five minutes every hour of the assessment period. Additionally, no allowance or reduction has been made to emissions from these patrons, who are otherwise assumed to be engaged in continuous activity within the new commercial tenancy or outdoor dining area. Calculations therefore represent a highly conservative ‘double counting’ of patron emissions. It is further noted that the building envelope will fully screen neighbours to the west of the site, and a nominal 15 dB(A) of barrier attenuation can be assumed to receiver R1. Noise emission calculations are presented below.

**Table 9:** Outdoor patron vocal activity noise emissions calculations to R1

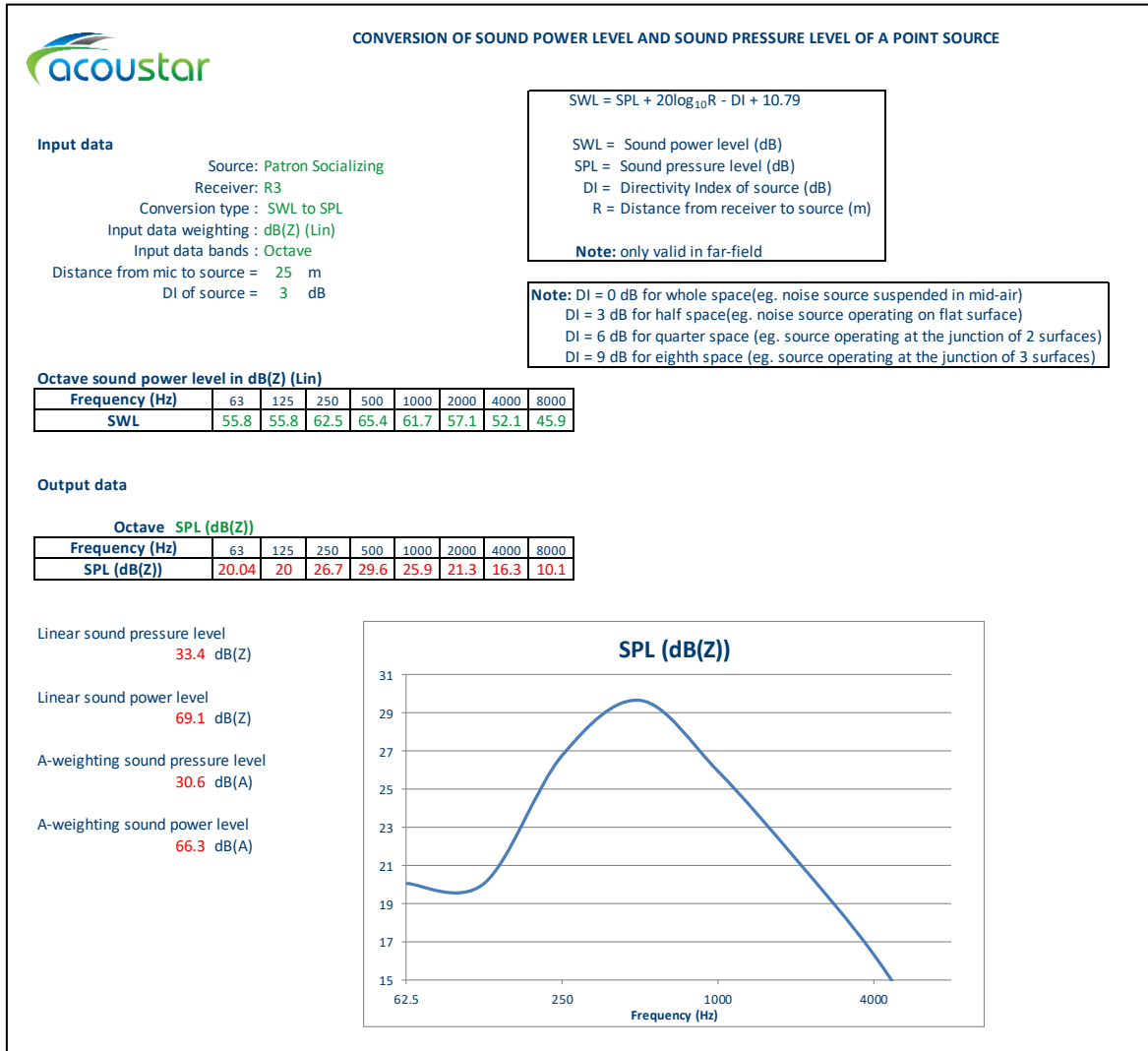


<sup>2</sup> As per the AAAC Licensed Premises and Patron Noise Assessment Technical Guideline v3

**Table 10:** Outdoor patron vocal activity noise emissions calculations to R2



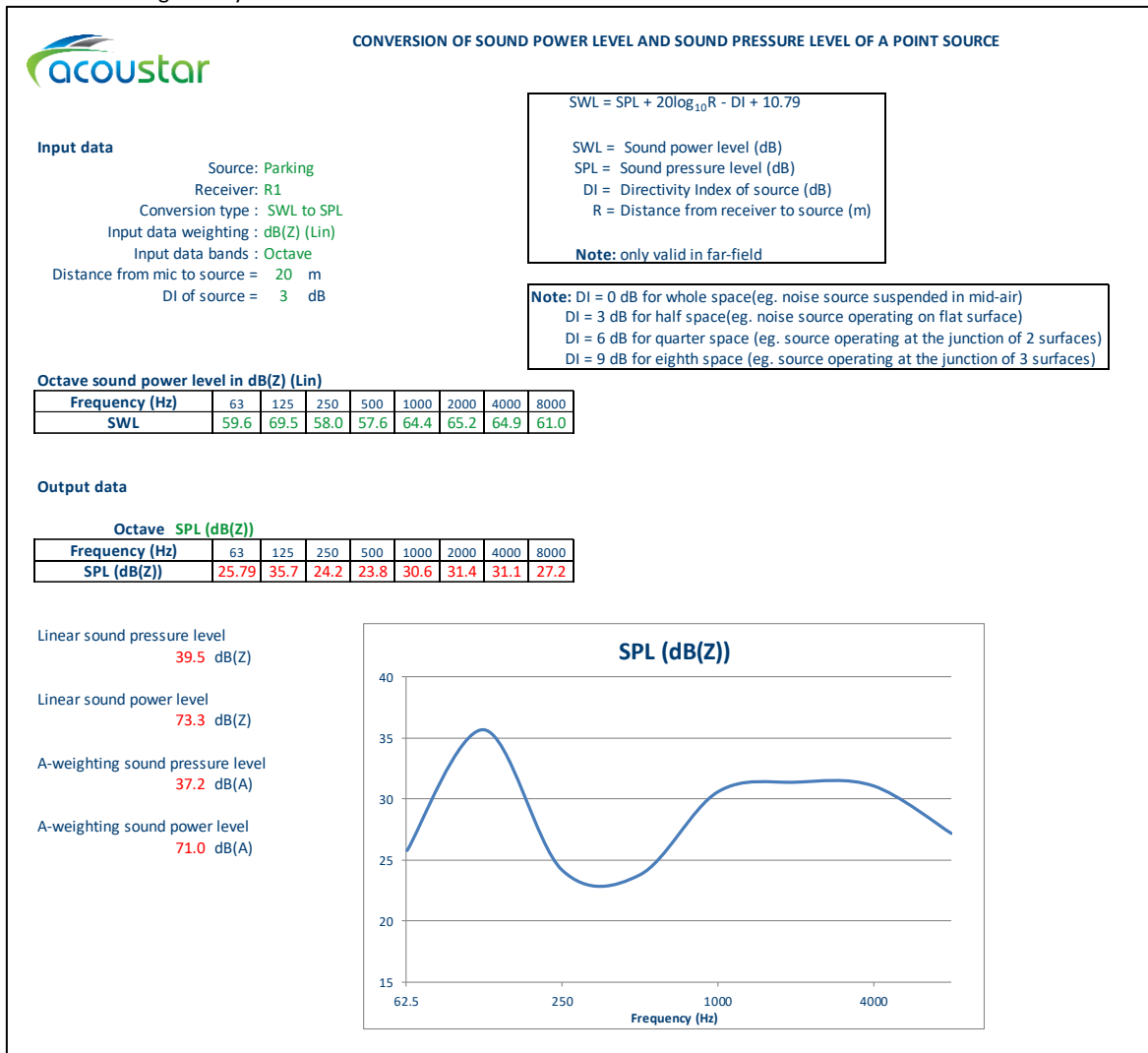
**Table 11:** Outdoor patron vocal activity noise emissions calculations to R3



### 4.3 Parking Activity

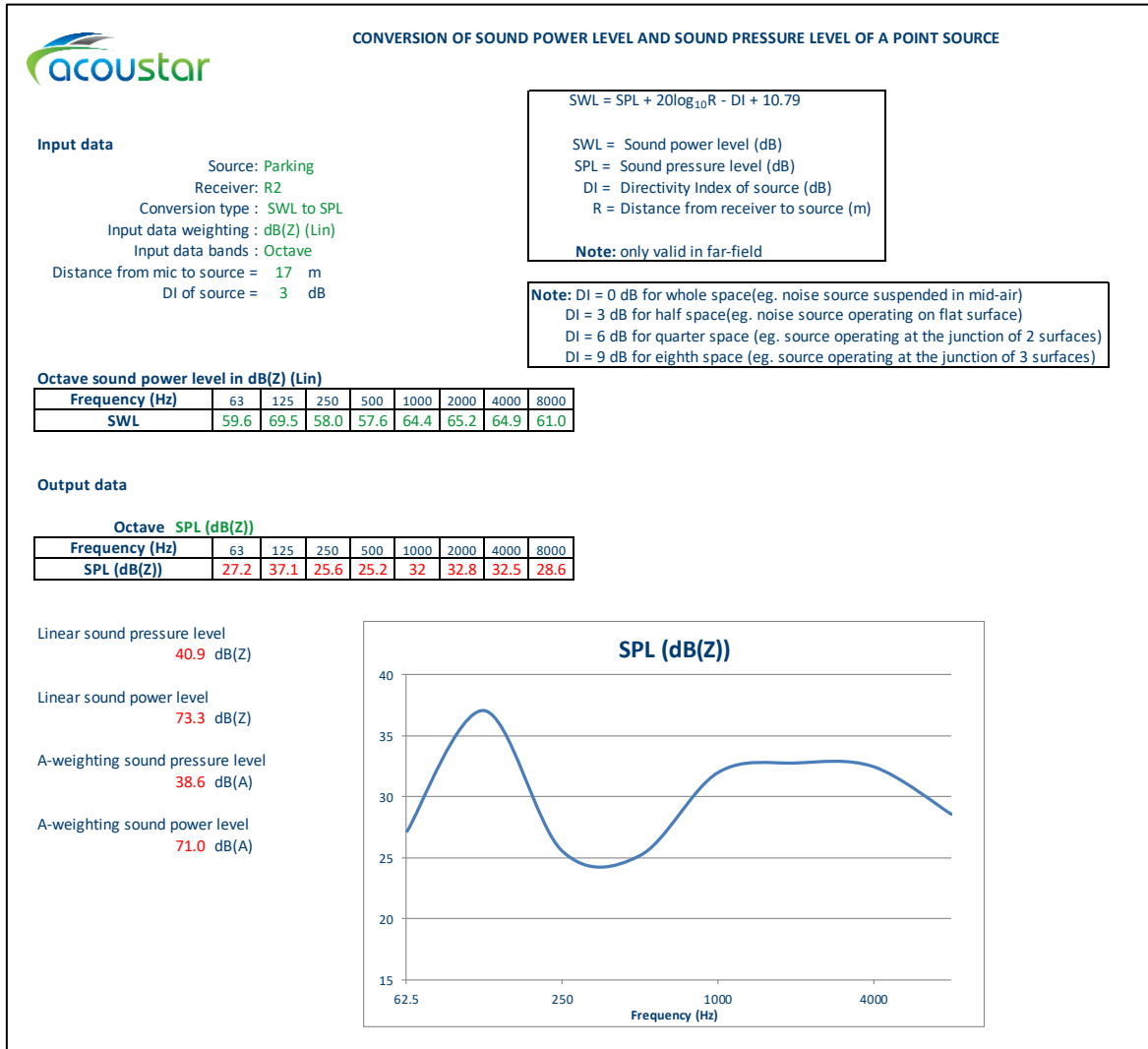
While the proposal does not introduce additional parking areas, the new commercial tenancy may result in additional parking activity occurring at the existing spaces. To account for potential increase in parking activity, calculations assume five additional minutes of parking activity each hour<sup>3</sup>. As an additional conservative methodology (and to enable cumulative assessment), source levels in the L<sub>01,1min</sub> descriptor are assumed to be commensurate with the L<sub>eq,1min</sub> descriptor. It is further noted that the building envelope will fully screen neighbours to the west of the site, and a nominal 15 dB(A) of barrier attenuation can be assumed to receiver R1. Noise emission calculations are presented below.

**Table 12:** Parking activity noise emissions calculations to R1

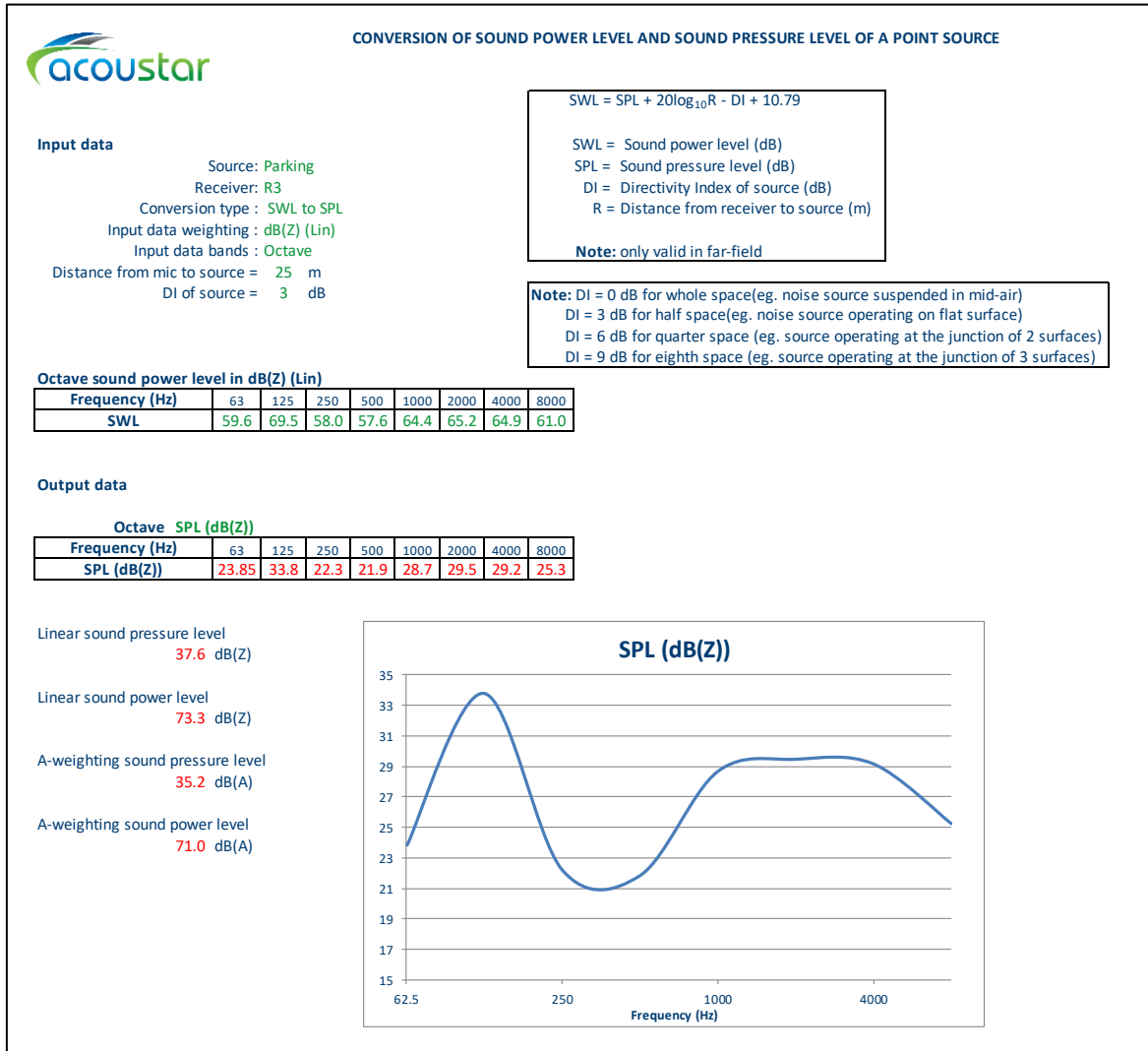


<sup>3</sup> Levels as per Harwood, M, "Carrying out noise assessments for proposed supermarket developments", **ACOUSTICS 2008**, Geelong

**Table 13:** Parking activity noise emissions calculations to R2



**Table 14:** Parking activity noise emissions calculations to R3



#### 4.4 Breakout from Internal Activity

The precise occupancy of the proposed new commercial tenancy is yet to be determined. As a highly conservative design assumption, a future restaurant or café tenancy has been assumed, with capacity of 30 patrons<sup>4</sup> (notwithstanding that far fewer customers are expected at any one time). Internal noise level calculations<sup>5</sup> are presented in **Table 15** below.

**Table 15:** Internal noise level calculations, new commercial tenancy

| INPUTS                           |       |       |      |      |      |      |      |      |               |
|----------------------------------|-------|-------|------|------|------|------|------|------|---------------|
| <b>Noise Source</b>              |       |       |      |      |      |      |      |      |               |
| Frequency                        | 63    | 125   | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SUM<br>(calc) |
| Lw (dBZ) per source              | 74.0  | 74.0  | 80.7 | 83.6 | 79.9 | 75.3 | 70.3 | 64.1 | 87.3          |
| Lw (dBA) per source (calculated) | 47.8  | 57.9  | 72.1 | 80.4 | 79.9 | 76.5 | 71.3 | 63.0 | 84.5          |
| Number of sources                | 1     |       |      |      |      |      |      |      |               |
| Source - receiver distance (r) m | 2.5   |       |      |      |      |      |      |      |               |
| <b>Room Dimensions</b>           |       |       |      |      |      |      |      |      |               |
| Room Length in m                 | 6     |       |      |      |      |      |      |      |               |
| Room Width in m                  | 6     |       |      |      |      |      |      |      |               |
| Room Height in m                 | 2.7   |       |      |      |      |      |      |      |               |
| CALCULATIONS                     |       |       |      |      |      |      |      |      |               |
| Room Volume (V) m <sup>3</sup>   | 97.2  |       |      |      |      |      |      |      |               |
| Frequency                        | 63    | 125   | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SUM           |
| Overall Lw (dBZ)                 | 74.0  | 74.0  | 80.7 | 83.6 | 79.9 | 75.3 | 70.3 | 64.1 | 87.3          |
| A-weight Corrections             | -26.2 | -16.1 | -8.6 | -3.2 | 0.0  | 1.2  | 1.0  | -1.1 |               |
| RESULTS                          |       |       |      |      |      |      |      |      |               |
| Frequency                        | 63    | 125   | 250  | 500  | 1000 | 2000 | 4000 | 8000 | SUM           |
| LpZ                              | 71.9  | 71.0  | 76.8 | 78.8 | 74.2 | 68.7 | 62.8 | 55.7 | 82.8          |
| LpA                              | 45.7  | 54.9  | 68.2 | 75.6 | 74.2 | 69.9 | 63.8 | 54.6 | 79.2          |

Detailed architectural plans for the new commercial tenancy are yet to be finalized, and breakout calculations assume the design acoustic performance of building elements as per **Table 16** below, based on calculations previously conducted by NMS.

**Table 16:** Design acoustic performance of building elements, new commercial tenancy. Levels are in dB(Z)

| Element             | 1/1 Octave |        |        |        |       |       |       |       |
|---------------------|------------|--------|--------|--------|-------|-------|-------|-------|
|                     | 63 Hz      | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz |
| Rendered Wall       | 28         | 32     | 36     | 38     | 35    | 44    | 52    | 52    |
| 6.38mm Glazing      | 17         | 11     | 24     | 28     | 32    | 27    | 35    | 39    |
| Solid hardwood door | 13         | 17     | 21     | 26     | 29    | 31    | 34    | 32    |


Noise breakout calculations are presented in the **tables** below<sup>6</sup>. The “open door” scenario assumes and recommends doors to be generally closed except for ingress/egress, conservatively assumed to be five minutes per hour. Noise propagation calculations are presented in the **tables** following.

<sup>4</sup> Levels as per Carati et al, “Characterization of sound power level of speech from restaurants in outdoor”, **ICSV23**, Athens 2016

<sup>5</sup> As per Zeng, W B “New empirical equations for calculating sound pressure levels in rooms” **University of Nevada**, Las Vegas 1994

<sup>6</sup> Calculations as per Thumann, A “Secrets of Noise Control” 1974, p129

**Table 17:** Showing noise breakout calculation, eastern façade, closed door scenario

|   |            |
|---|------------|
|  |            |
| Project:  | 8227       |
| Date :  | 13/05/2026 |
| Descriptor :  | Leq        |
| Façade :  | East       |

|  |             |           |            |            |            |             |             |             |             |
|--|-------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|
| <b>SPL (sound level) inside room (dBZ)</b> | <b>dBZ</b>  | <b>63</b> | <b>125</b> | <b>250</b> | <b>500</b> | <b>1000</b> | <b>2000</b> | <b>4000</b> | <b>8000</b> |
|  | <b>82.8</b> | 72        | 71         | 77         | 79         | 74          | 69          | 63          | 56          |

|  |                           |    |     |     |     |      |      |      |      |
|--|---------------------------|----|-----|-----|-----|------|------|------|------|
| <b>Façade Element 1</b><br><br>Wall                    | Dimensions: 2.0 m, 3.0 m  |    |     |     |     |      |      |      |      |
|  | Area = 6.0 m <sup>2</sup> |    |     |     |     |      |      |      |      |
|  | <b>dBZ</b>                | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|  | Sound Transmission Loss = | 28 | 32  | 36  | 38  | 35   | 44   | 52   | 52   |
| <b>Equivalent Sound Power Level of Element (dBZ) =</b> | <b>49.7</b>               | 46 | 41  | 42  | 42  | 41   | 26   | 12   | 5    |


  

|  |                            |    |     |     |     |      |      |      |      |
|--|----------------------------|----|-----|-----|-----|------|------|------|------|
| <b>Façade Element 2</b><br><br>Sliding Doors           | Dimensions: 2.1 m, 4.8 m   |    |     |     |     |      |      |      |      |
|  | Area = 10.1 m <sup>2</sup> |    |     |     |     |      |      |      |      |
|  | <b>dBZ</b>                 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|  | Sound Transmission Loss =  | 17 | 11  | 24  | 28  | 32   | 27   | 35   | 39   |
| <b>Equivalent Sound Power Level of Element (dBZ) =</b> | <b>66.0</b>                | 59 | 64  | 57  | 55  | 46   | 46   | 32   | 21   |

|  |                   |             |      |      |      |      |      |      |      |      |
|--|-------------------|-------------|------|------|------|------|------|------|------|------|
| <b>COMBINED L<sub>w</sub> of Façade Elements =</b> | <b>dB</b>         | 63          | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|  | <b>Z-Weighted</b> | <b>66.1</b> | 59.0 | 63.9 | 56.8 | 54.9 | 47.2 | 45.6 | 31.7 | 20.7 |
|  | <b>A-Weighted</b> | <b>55.8</b> | 32.8 | 47.8 | 48.2 | 51.7 | 47.2 | 46.8 | 32.7 | 19.6 |

**Table 18:** Showing noise breakout calculation, eastern façade, open door scenario

|   |            |
|---|------------|
|  |            |
| Project:  | 8227       |
| Date :  | 13/05/2026 |
| Descriptor :  | Leq        |
| Façade :  | East       |

|  |             |           |            |            |            |             |             |             |             |
|--|-------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|
| <b>SPL (sound level) inside room (dBZ)</b> | <b>dBZ</b>  | <b>63</b> | <b>125</b> | <b>250</b> | <b>500</b> | <b>1000</b> | <b>2000</b> | <b>4000</b> | <b>8000</b> |
|  | <b>82.8</b> | 72        | 71         | 77         | 79         | 74          | 69          | 63          | 56          |

|  |                           |    |     |     |     |      |      |      |      |
|--|---------------------------|----|-----|-----|-----|------|------|------|------|
| <b>Façade Element 1</b><br><br>Wall                    | Dimensions: 2.0 m, 3.0 m  |    |     |     |     |      |      |      |      |
|  | Area = 6.0 m <sup>2</sup> |    |     |     |     |      |      |      |      |
|  | <b>dBZ</b>                | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|  | Sound Transmission Loss = | 28 | 32  | 36  | 38  | 35   | 44   | 52   | 52   |
| <b>Equivalent Sound Power Level of Element (dBZ) =</b> | <b>49.7</b>               | 46 | 41  | 42  | 42  | 41   | 26   | 12   | 5    |


  

|  |                            |    |     |     |     |      |      |      |      |
|--|----------------------------|----|-----|-----|-----|------|------|------|------|
| <b>Façade Element 2</b><br><br>Open Sliding Doors      | Dimensions: 2.1 m, 4.8 m   |    |     |     |     |      |      |      |      |
|  | Area = 10.1 m <sup>2</sup> |    |     |     |     |      |      |      |      |
|  | <b>dBZ</b>                 | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|  | Sound Transmission Loss =  | 0  | 0   | 0   | 0   | 0    | 0    | 0    | 0    |
| <b>Equivalent Sound Power Level of Element (dBZ) =</b> | <b>86.6</b>                | 76 | 75  | 81  | 83  | 78   | 73   | 67   | 60   |


  

|  |                   |             |      |      |      |      |      |      |      |      |
|--|-------------------|-------------|------|------|------|------|------|------|------|------|
| <b>COMBINED L<sub>w</sub> of Façade Elements =</b> | <b>dB</b>         | 63          | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|  | <b>Z-Weighted</b> | <b>86.6</b> | 75.8 | 74.9 | 80.7 | 82.7 | 78.1 | 72.6 | 66.7 | 59.5 |
|  | <b>A-Weighted</b> | <b>83.0</b> | 49.6 | 58.8 | 72.1 | 79.5 | 78.1 | 73.8 | 67.7 | 58.4 |


**Table 19:** Showing noise breakout calculation, southern façade

|   |                             |            |      |      |      |      |      |      |      |      |
|---|-----------------------------|------------|------|------|------|------|------|------|------|------|
|  |                             |            |      |      |      |      |      |      |      |      |
| Project:  |                             | 8227       |      |      |      |      |      |      |      |      |
| Date :  |                             | 13/05/2026 |      |      |      |      |      |      |      |      |
| Descriptor :  |                             | Leq        |      |      |      |      |      |      |      |      |
| Façade :  |                             | South      |      |      |      |      |      |      |      |      |
| SPL (sound level) inside room (dBZ)   | dBZ                         | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|   |                             | 82.8       | 72   | 71   | 77   | 79   | 74   | 69   | 63   | 56   |
| <b>Façade Element 1</b><br>Wall   | Dimensions: 20.0 m, 5.0 m   |            |      |      |      |      |      |      |      |      |
|   | Area = 100.0 m <sup>2</sup> |            |      |      |      |      |      |      |      |      |
|   | dBZ                         | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|   | Sound Transmission Loss =   | 28         | 32   | 36   | 38   | 35   | 44   | 52   | 52   |      |
| Equivalent Sound Power Level of Element (dBZ) =                                   |                             | 62.0       | 58   | 53   | 55   | 55   | 53   | 39   | 25   | 18   |
| <b>COMBINED L<sub>w</sub> of Façade Elements =</b><br>Z-Weighted<br>A-Weighted    | dB                          | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|   |                             | 62.0       | 57.7 | 52.8 | 54.6 | 54.6 | 53.0 | 38.5 | 24.6 | 17.5 |
|   |                             | 56.0       | 31.5 | 36.7 | 46.0 | 51.4 | 53.0 | 39.7 | 25.6 | 16.4 |
|   |                             |            |      |      |      |      |      |      |      |      |

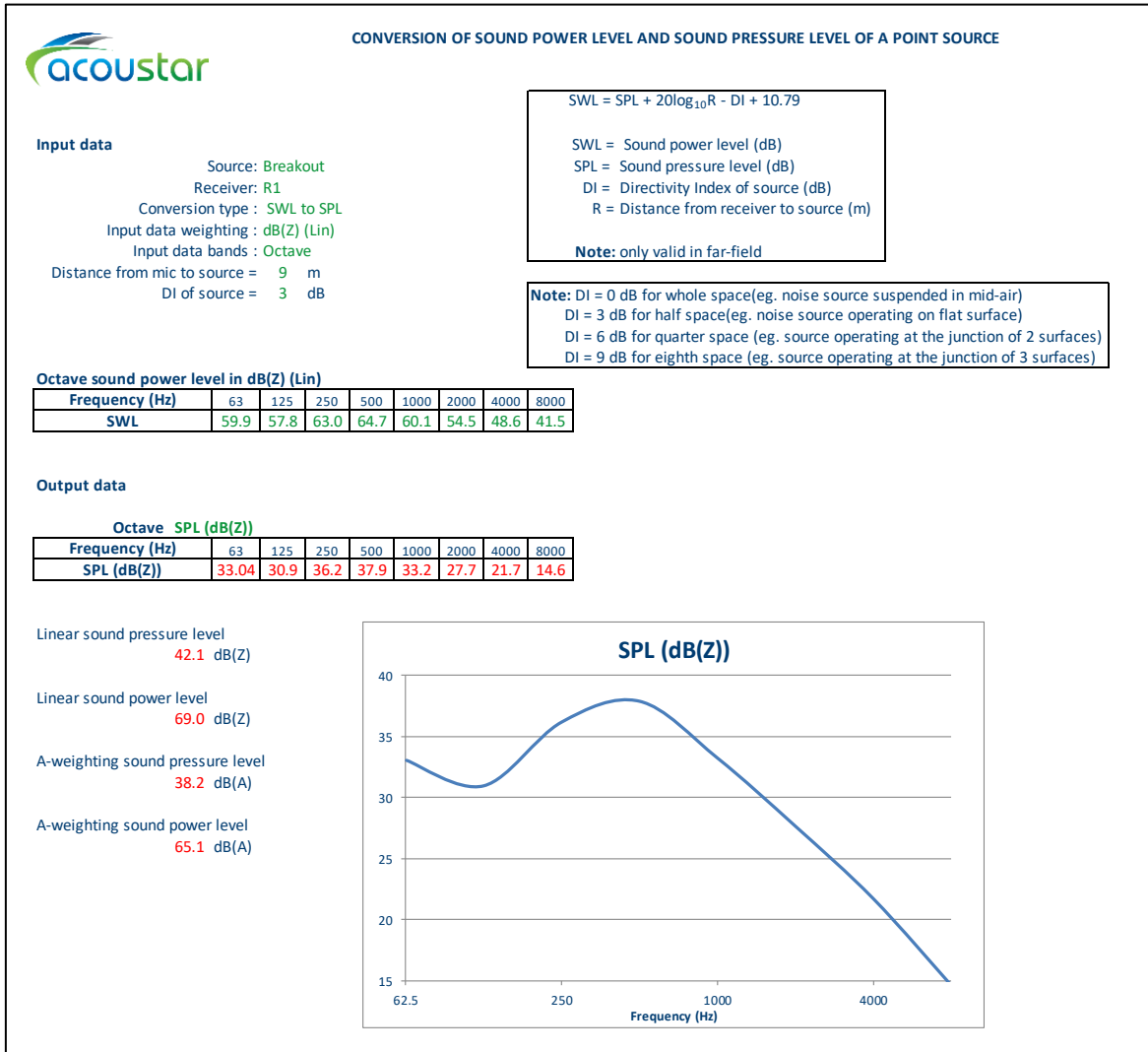
**Table 20:** Showing noise breakout calculation, western façade, closed door scenario

|  |                           |            |      |      |      |      |      |      |      |      |
|--|---------------------------|------------|------|------|------|------|------|------|------|------|
|  |                           |            |      |      |      |      |      |      |      |      |
| Project:   |                           | 8227       |      |      |      |      |      |      |      |      |
| Date :   |                           | 13/05/2026 |      |      |      |      |      |      |      |      |
| Descriptor :   |                           | Leq        |      |      |      |      |      |      |      |      |
| Façade :   |                           | West       |      |      |      |      |      |      |      |      |
| SPL (sound level) inside room (dBZ)  | dBZ                       | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|  |                           | 82.8       | 72   | 71   | 77   | 79   | 74   | 69   | 63   | 56   |
| <b>Façade Element 1</b><br>Wall  | Dimensions: 2.0 m, 3.0 m  |            |      |      |      |      |      |      |      |      |
|  | Area = 6.0 m <sup>2</sup> |            |      |      |      |      |      |      |      |      |
|  | dBZ                       | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|  | Sound Transmission Loss = | 28         | 32   | 36   | 38   | 35   | 44   | 52   | 52   |      |
| Equivalent Sound Power Level of Element (dBZ) =                                    |                           | 49.7       | 46   | 41   | 42   | 42   | 41   | 26   | 12   | 5    |
| <b>Façade Element 2</b><br>Door  | Dimensions: 2.1 m, 0.9 m  |            |      |      |      |      |      |      |      |      |
|  | Area = 1.9 m <sup>2</sup> |            |      |      |      |      |      |      |      |      |
|  | dBZ                       | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|  | Sound Transmission Loss = | 13         | 17   | 21   | 26   | 29   | 31   | 34   | 32   |      |
| Equivalent Sound Power Level of Element (dBZ) =                                    |                           | 58.7       | 55   | 51   | 52   | 49   | 42   | 34   | 25   | 20   |
| <b>COMBINED L<sub>w</sub> of Façade Elements =</b><br>Z-Weighted<br>A-Weighted     | dB                        | 63         | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |      |
|  |                           | 59.3       | 55.9 | 51.0 | 52.8 | 50.2 | 44.3 | 34.9 | 25.6 | 20.4 |
|  |                           | 50.5       | 29.7 | 34.9 | 44.2 | 47.0 | 44.3 | 36.1 | 26.6 | 19.3 |
|  |                           |            |      |      |      |      |      |      |      |      |

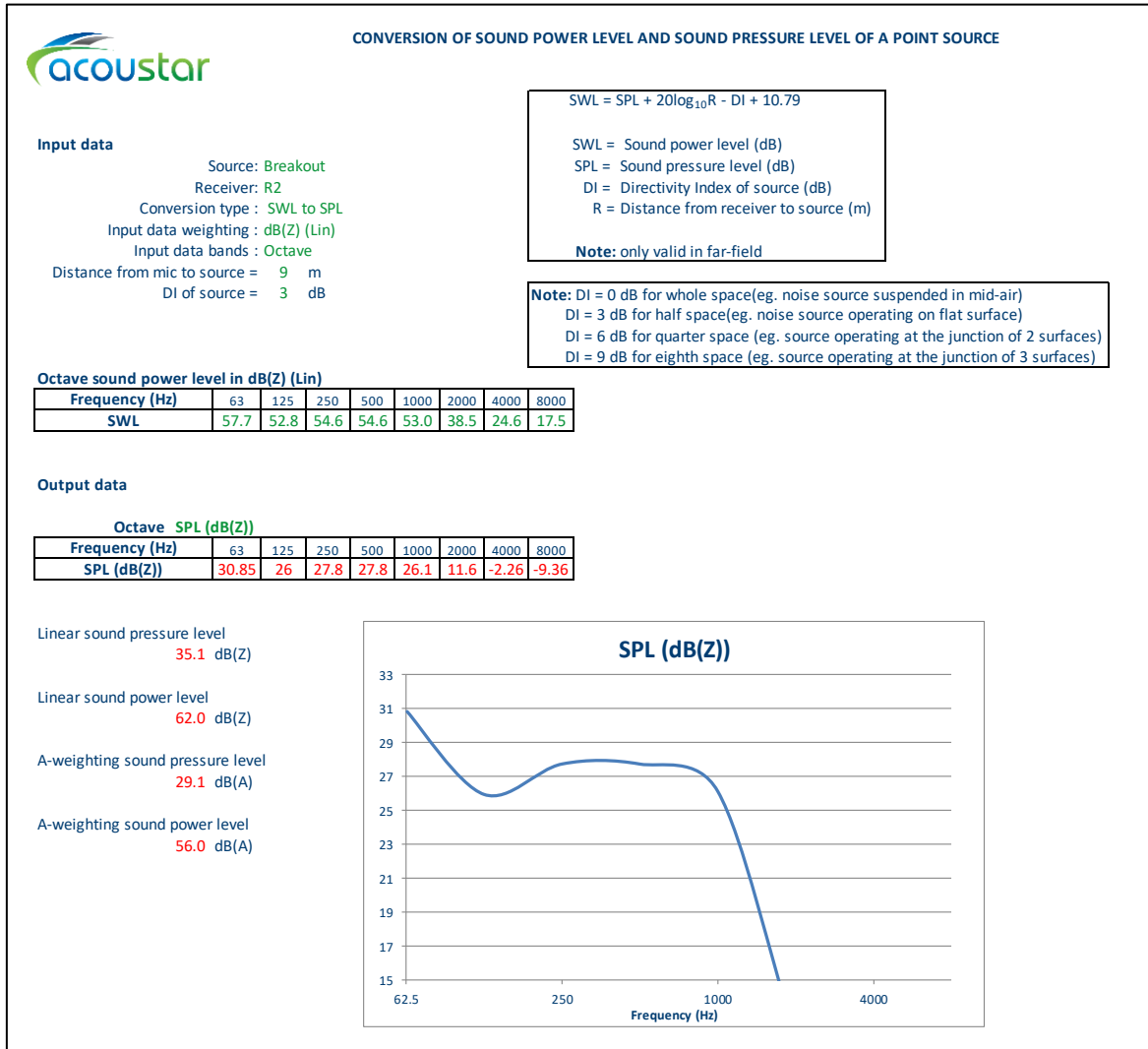
**Table 21:** Showing noise breakout calculation, western façade, open door scenario

|   |  |                           |           |            |            |            |             |             |             |             |
|---|--|---------------------------|-----------|------------|------------|------------|-------------|-------------|-------------|-------------|
|  |  |                           |           |            |            |            |             |             |             |             |
| Project:  |  | 8227                      |           |            |            |            |             |             |             |             |
| Date :  |  | 13/05/2026                |           |            |            |            |             |             |             |             |
| Descriptor :  |  | Leq                       |           |            |            |            |             |             |             |             |
| Façade :  |  | West                      |           |            |            |            |             |             |             |             |
| <b>SPL (sound level) inside room (dBZ)</b>  |  | <b>dBZ</b>                | <b>63</b> | <b>125</b> | <b>250</b> | <b>500</b> | <b>1000</b> | <b>2000</b> | <b>4000</b> | <b>8000</b> |
|   |  | <b>82.8</b>               | 72        | 71         | 77         | 79         | 74          | 69          | 63          | 56          |
| <b>Façade Element 1</b>   |  | Dimensions: 2.0 m, 3.0 m  |           |            |            |            |             |             |             |             |
| Wall  |  | Area = 6.0 m <sup>2</sup> |           |            |            |            |             |             |             |             |
| <b>dBZ</b>  |  | 63                        | 125       | 250        | 500        | 1000       | 2000        | 4000        | 8000        |             |
| Sound Transmission Loss =   |  | 28                        | 32        | 36         | 38         | 35         | 44          | 52          | 52          |             |
| <b>Equivalent Sound Power Level of Element (dBZ) =</b>                            |  | <b>49.7</b>               | 46        | 41         | 42         | 42         | 41          | 26          | 12          | 5           |
| <b>Façade Element 2</b>   |  | Dimensions: 2.1 m, 0.9 m  |           |            |            |            |             |             |             |             |
| Door  |  | Area = 1.9 m <sup>2</sup> |           |            |            |            |             |             |             |             |
| <b>dBZ</b>  |  | 63                        | 125       | 250        | 500        | 1000       | 2000        | 4000        | 8000        |             |
| Sound Transmission Loss =   |  | 0                         | 0         | 0          | 0          | 0          | 0           | 0           | 0           |             |
| <b>Equivalent Sound Power Level of Element (dBZ) =</b>                            |  | <b>79.3</b>               | 68        | 68         | 73         | 75         | 71          | 65          | 59          | 52          |
| <b>COMBINED L<sub>w</sub> of Façade Elements =</b>                                |  | <b>dB</b>                 | 63        | 125        | 250        | 500        | 1000        | 2000        | 4000        | 8000        |
| Z-Weighted  |  | <b>79.3</b>               | 68.5      | 67.6       | 73.4       | 75.4       | 70.8        | 65.3        | 59.4        | 52.3        |
| A-Weighted  |  | <b>75.7</b>               | 42.3      | 51.5       | 64.8       | 72.2       | 70.8        | 66.5        | 60.4        | 51.2        |

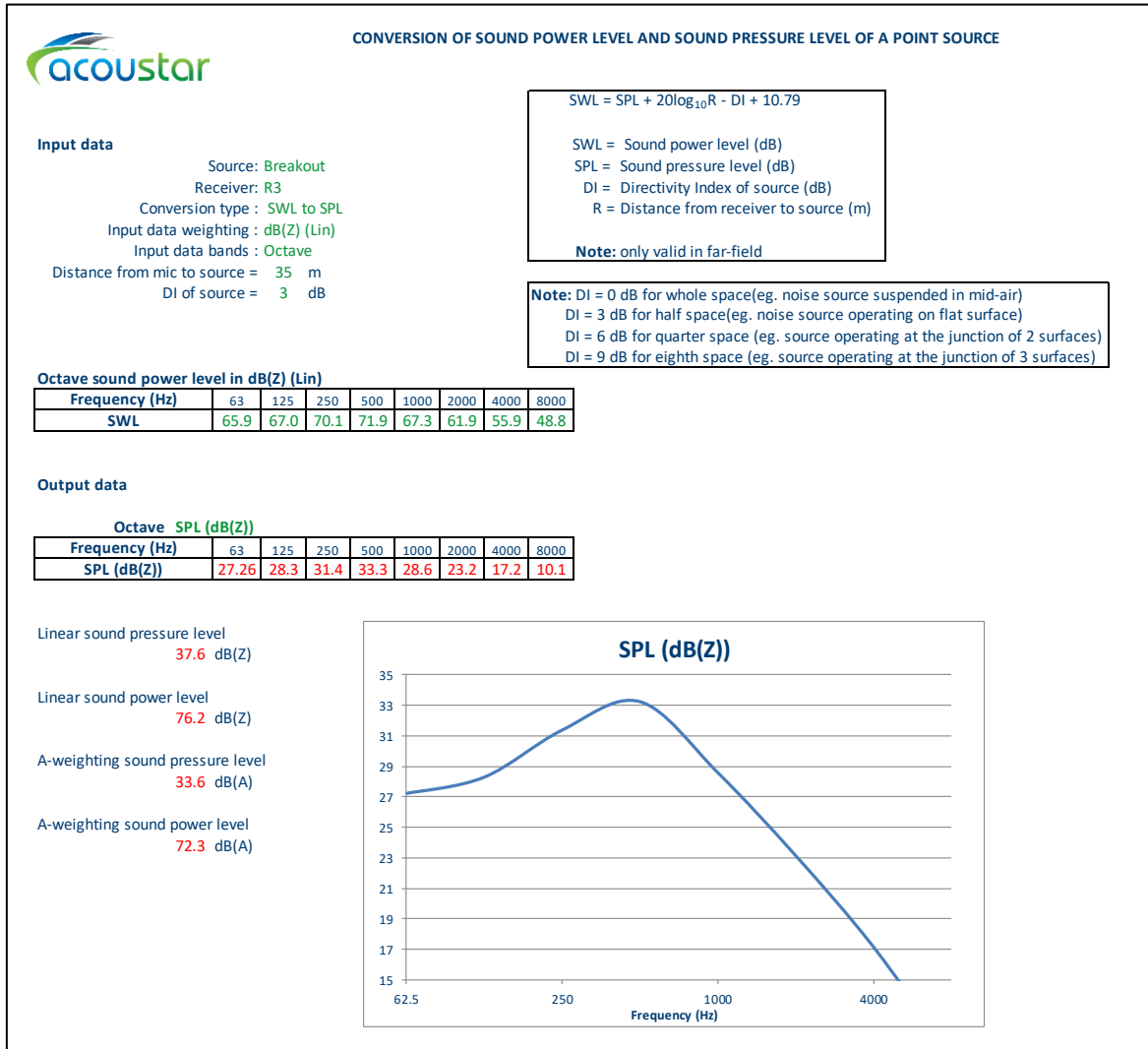
**Table 22:** Breakout noise emissions calculations to R1



**Table 23:** Breakout noise emissions calculations to R2



**Table 24:** Breakout noise emissions calculations to R3



## 4.5 Cumulative Noise Emissions

Cumulative noise emission calculations are presented in **Table 25** below, with assessment to criteria presented in **Table 26** following.

**Table 25:** Showing cumulative noise emission calculations. Levels are in dB(A)  $L_{eq,adj,T}$

| Receiver | Forecast       |                 |         |          | Total |
|----------|----------------|-----------------|---------|----------|-------|
|          | Outdoor Dining | Patron Activity | Parking | Breakout |       |
| R1       | 29*            | 20*             | 22*     | 38       | 39    |
| R2       | 27*            | 35              | 39      | 29       | 41    |
| R3       | 39             | 31              | 32      | 34       | 41    |

\* Includes 15 dB(A) of barrier attenuation from the building envelope

**Table 26:** Cumulative noise emissions and criteria. Levels are in dB(A)  $L_{eq,adj,T}$

| Receiver | Forecast | Criteria |         |       | Assessment                    |
|----------|----------|----------|---------|-------|-------------------------------|
|          |          | Day      | Evening | Night |                               |
| R1       | 39       | 45       | 42      | N/A   | Compliant with noise criteria |
| R2       | 41       | 45       | 42      | N/A   | Compliant with noise criteria |
| R3       | 41       | 45       | 42      | N/A   | Compliant with noise criteria |

As shown above, cumulative noise emissions are forecast to meet criteria at all receivers, under highly conservative calculation scenarios. On this basis, it is concluded that the proposed extensions can meet the requirements of the *Brisbane City Plan 2014* with regards to noise impacts onto neighbouring properties, and be otherwise compliant with relevant regulatory obligations.

## 4.6 Reverse Amenity

As discussed in **Section 3.1.2**, although the site is not located within a Centre or Mixed Use Zone, Performance Outcome **PO21** of the Multiple Dwelling Code is considered an appropriate methodology for 'reverse amenity' considerations regarding noise impacts from commercial activity onto the residential component on-site. It is further considered that the rendered brick or block external wall construction shown on development plans represents suitable noise mitigation through the wall construction, and that glazing is the design driver for commercial noise immissions.

On this basis, it is recommended that renovations to the residential component of the development provide glazing that achieves not less than the acceptable outcomes related to PO21 (i.e. AO21):

- Rw 35, where total area of glazing on the façade is greater than 1.8m<sup>2</sup>
- Rw 32, where total area of glazing on the façade is less than or equal to 1.8m<sup>2</sup>

Subject to construction in accordance with these glazing requirements, it is concluded that the proposed renovations to the residential component can appropriately mitigate commercial noise immissions, and satisfy the 'reverse amenity' requirements of the *Brisbane City Plan 2014*.

## 5. Conclusions and recommendations

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### Conclusions

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It is concluded that –

- Subject to the considerations as presented in this Report, it is the opinion of this consultancy that the proposed development can meet the requirements of the *Brisbane City Plan 2014*, and be otherwise compliant with relevant regulatory requirements.
- Cumulative noise emissions from the proposed new commercial activities are forecast to meet criteria at all receivers.
- The residential component can appropriately mitigate commercial noise immissions through construction in accordance with **AO21** of the Multiple Dwelling Code.
- The precise model(s) and installation of mechanical plant is yet to be determined. Detailed plant noise assessment can be conducted – if required – at the Building Approval stage once specifications have been finalised. The relative criterion is nonetheless considered readily achievable through appropriate plant selection and siting.

### Recommendations

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It is recommended that –

- The proposed extensions be approved for operations between 7am and 10pm, as compliant with the acoustic requirements of the *Brisbane City Plan 2014*.
- Doors to the new commercial tenancy remain generally closed except for ingress/egress.
- Ambient music (if any) be limited to background levels that do not interfere with normal conversation.
- Renovations to the residential component provide glazing that achieves acoustic performance of not less than:
  - Rw 35, where total area of glazing on the façade is greater than 1.8m<sup>2</sup>
  - Rw 32, where total area of glazing on the façade is less than or equal to 1.8m<sup>2</sup>
- External air conditioning plant (if any) be selected and installed to not exceed 38 dB(A) at nearby residences.

# Appendix A: Development Plans

## COMMERCIAL ALTERATIONS

**DEVELOPMENT DATA:**  
 Address: 215 LANCASTER RD & 86 CHARLTON ST ASCOT 4007  
 Council: BRISBANE CITY COUNCIL  
 Lot/FP: Lot 1, RP 190513  
 Area: 814.50M<sup>2</sup>  
 Ward: HAMILTON  
 Zoning: CR2 CHARACTER (INFILL HOUSING)  
 Overlays: TRADITIONAL BUILDING CHARACTER

**DEVELOPMENT DATA**

**EXISTING**  
 GROUND FLOOR GFA 174LSOM  
 EXTERNAL DINING 4250M

**PROPOSED**  
 GROUND FLOOR GFA 21250M  
 EXTERNAL DINING 4250M

| ARCHITECTURAL PLANS |                            |
|---------------------|----------------------------|
| A.00.00             | COVER SHEET                |
| A.01.00             | LOCATION PLAN              |
| A.01.01             | EXISTING SITE PLAN         |
| A.01.02             | PROPOSED SITE PLAN         |
| A.02.00             | EXISTING GROUND FLOOR PLAN |
| A.02.01             | EXISTING ROOF PLAN         |
| A.02.02             | EXISTING ELEVATIONS        |
| A.02.03             | EXISTING ELEVATIONS        |
| A.03.00             | GROUND FLOOR PLAN          |
| A.03.01             | PROPOSED FLOOR PLAN        |
| A.03.10             | ROOF PLAN                  |
| A.04.00             | ELEVATIONS                 |
| A.04.01             | ELEVATIONS                 |
| A.99.00             | PERSPECTIVES               |
| A.99.01             | PERSPECTIVES               |
| A.99.90             | GFA CALCULATIONS           |

**86 CHARLTON ST ASCOT**  
 COMMERCIAL ALTERATIONS  
 COVER SHEET

scale | for A3 | date | 07.04.2026

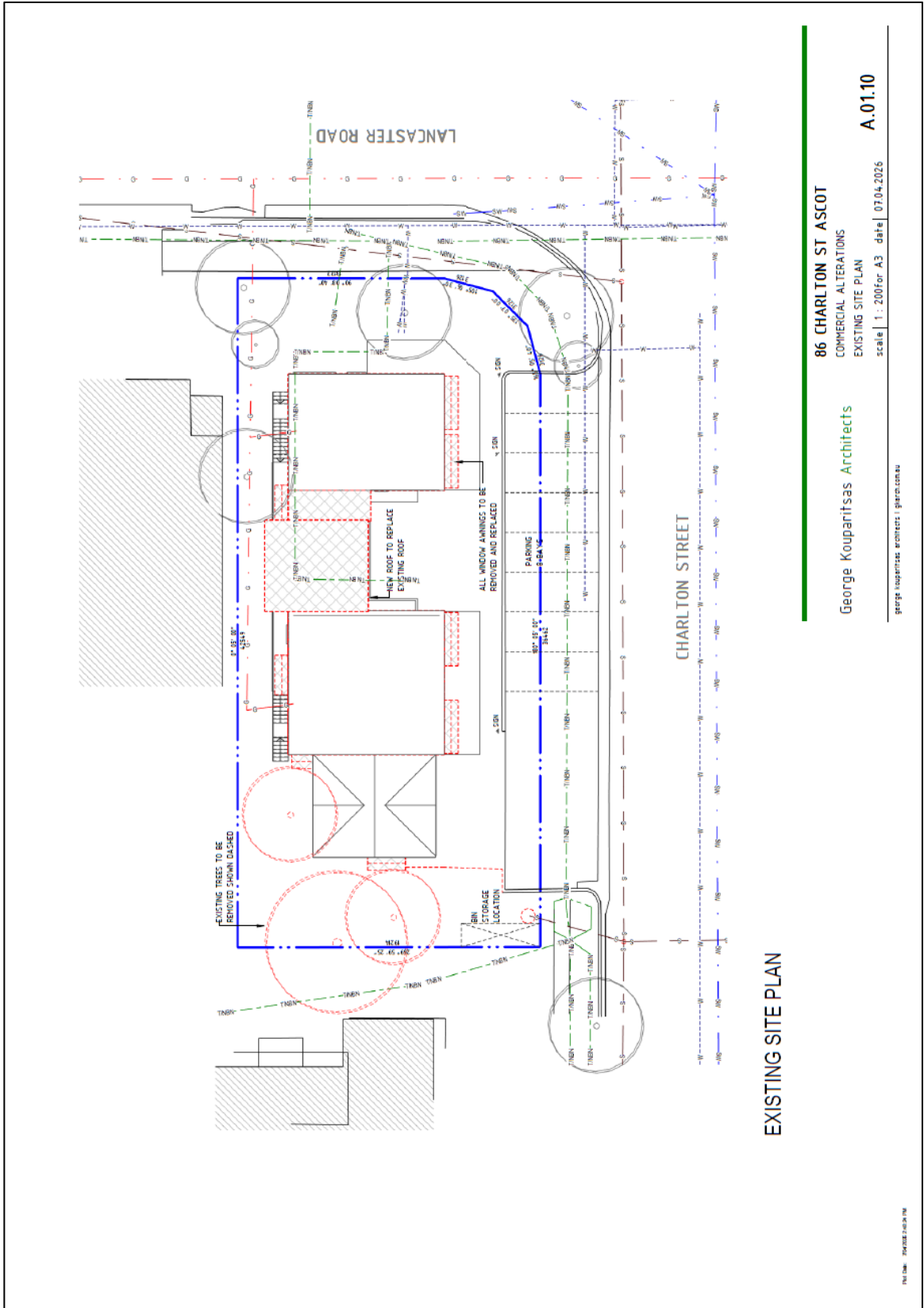
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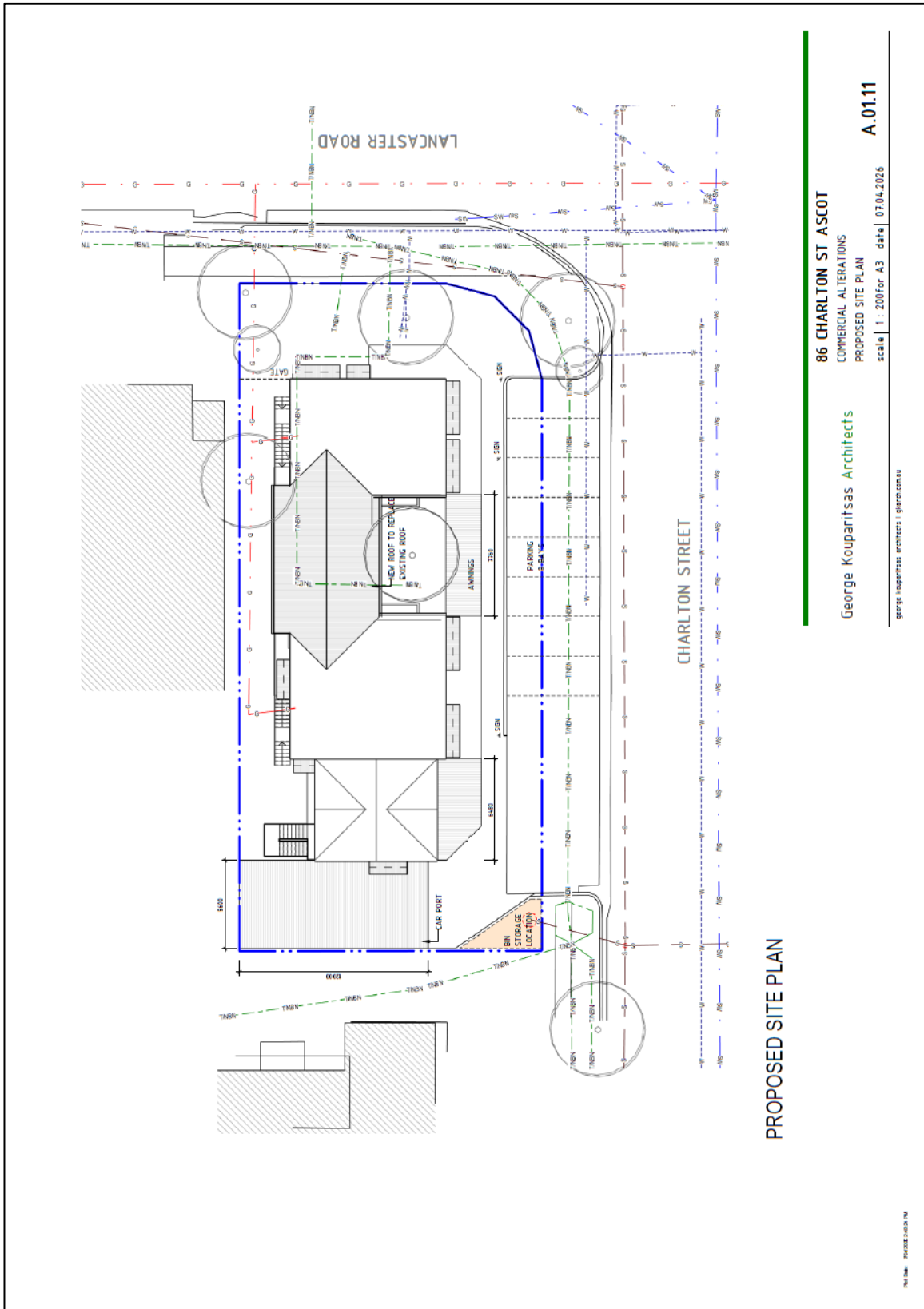


EXISTING SITE PLAN

**86 CHARLTON ST ASCOT**  
 COMMERCIAL ALTERATIONS  
 EXISTING SITE PLAN  
 scale | 1 : 200 for A3 date | 07/04/2025  
**A.01.10**

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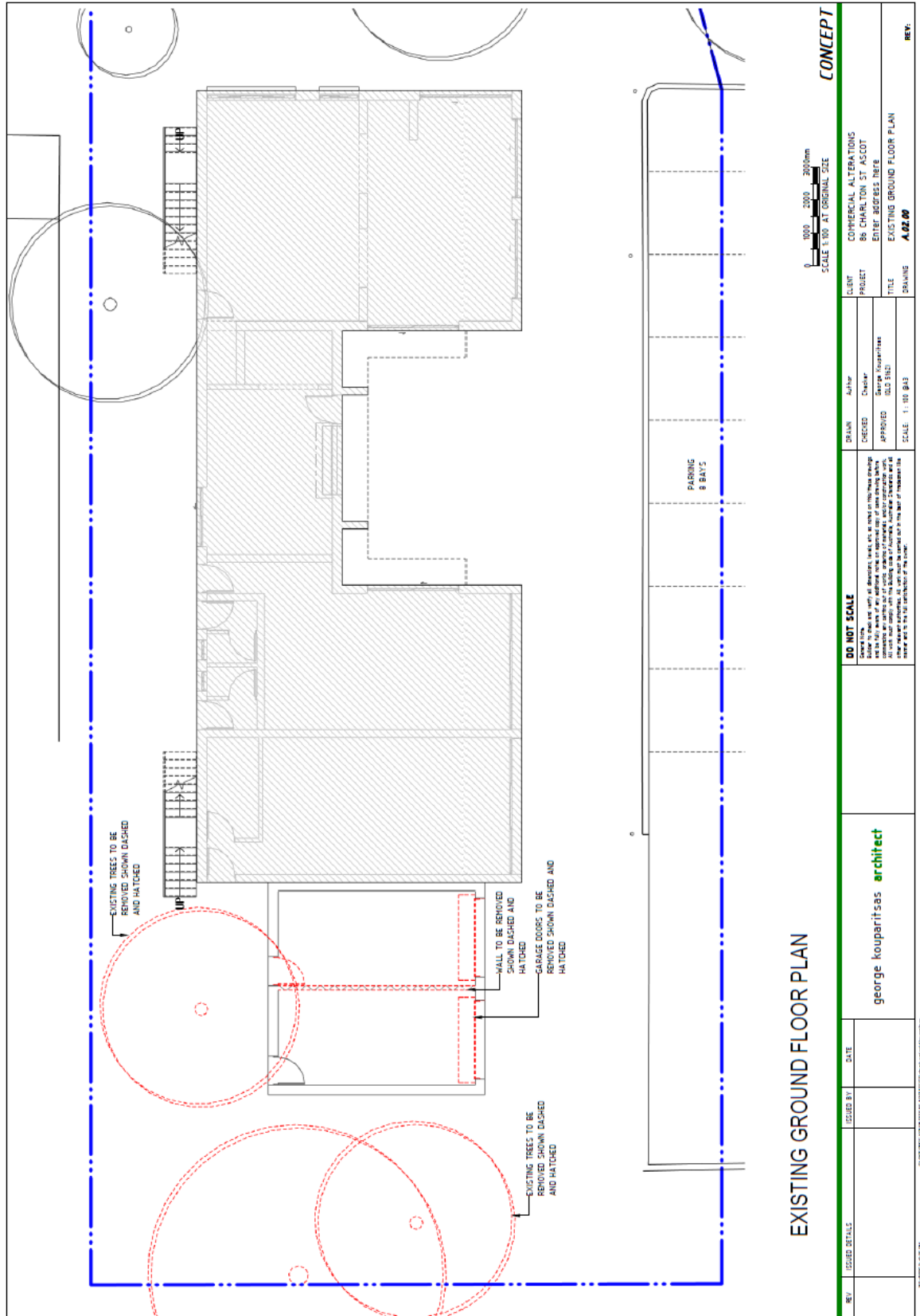


PROPOSED SITE PLAN

86 CHARLTON ST ASCOT  
 COMMERCIAL ALTERATIONS  
 PROPOSED SITE PLAN  
 George Kouparitsas Architects  
 scale 1:200 for A3 date 07.04.2026  
 A.01.11

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PLAN 001 - PROPOSED SITE PLAN



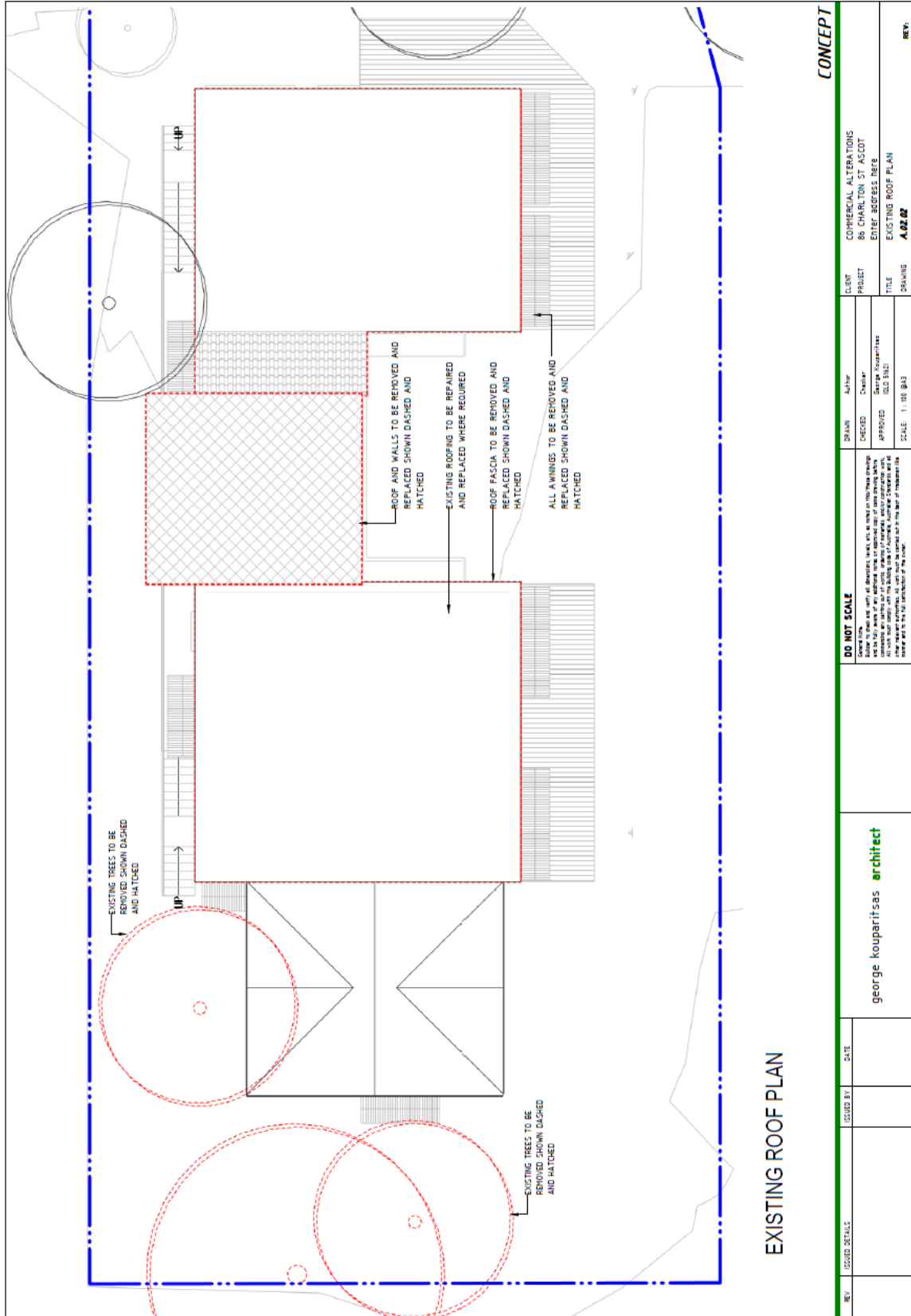
EXISTING GROUND FLOOR PLAN

| REV | ISSUED DETAILS | ISSUED BY | DATE |
|-----|----------------|-----------|------|
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|---|--|---|---|
| CLIENT: COMMERCIAL ALTERATIONS<br>PROJECT: 86 CHARLTON ST ASCOT<br>EXIST. ADDRESS: 215  |  | DRAWN: Author<br>CHECKED: Checker<br>APPROVED: George Kouparitsas<br>DATE: 2024 | TITLE: EXISTING GROUND FLOOR PLAN<br>DRAWING: A.02.00<br>SCALE: 1:100 (813) |
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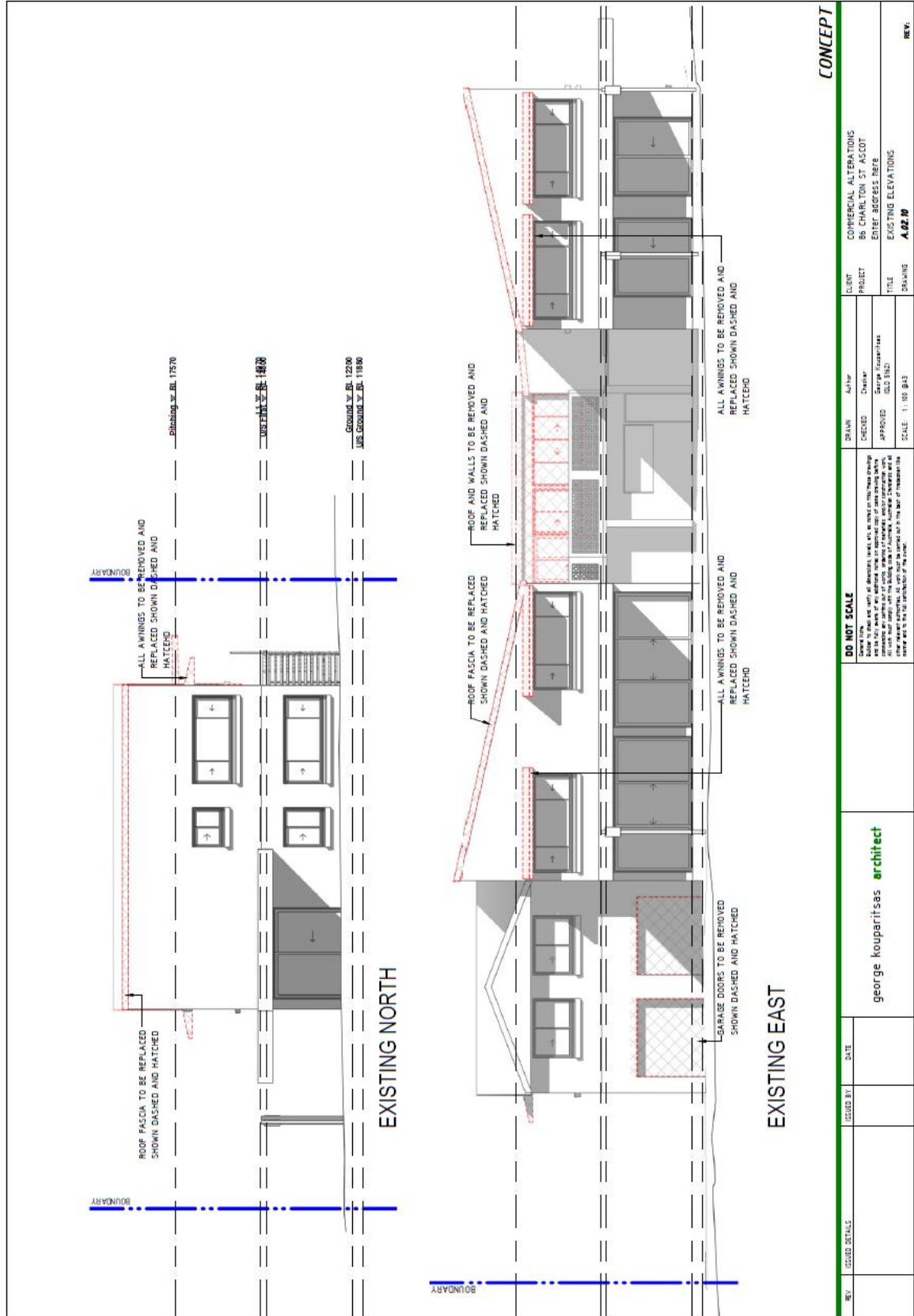
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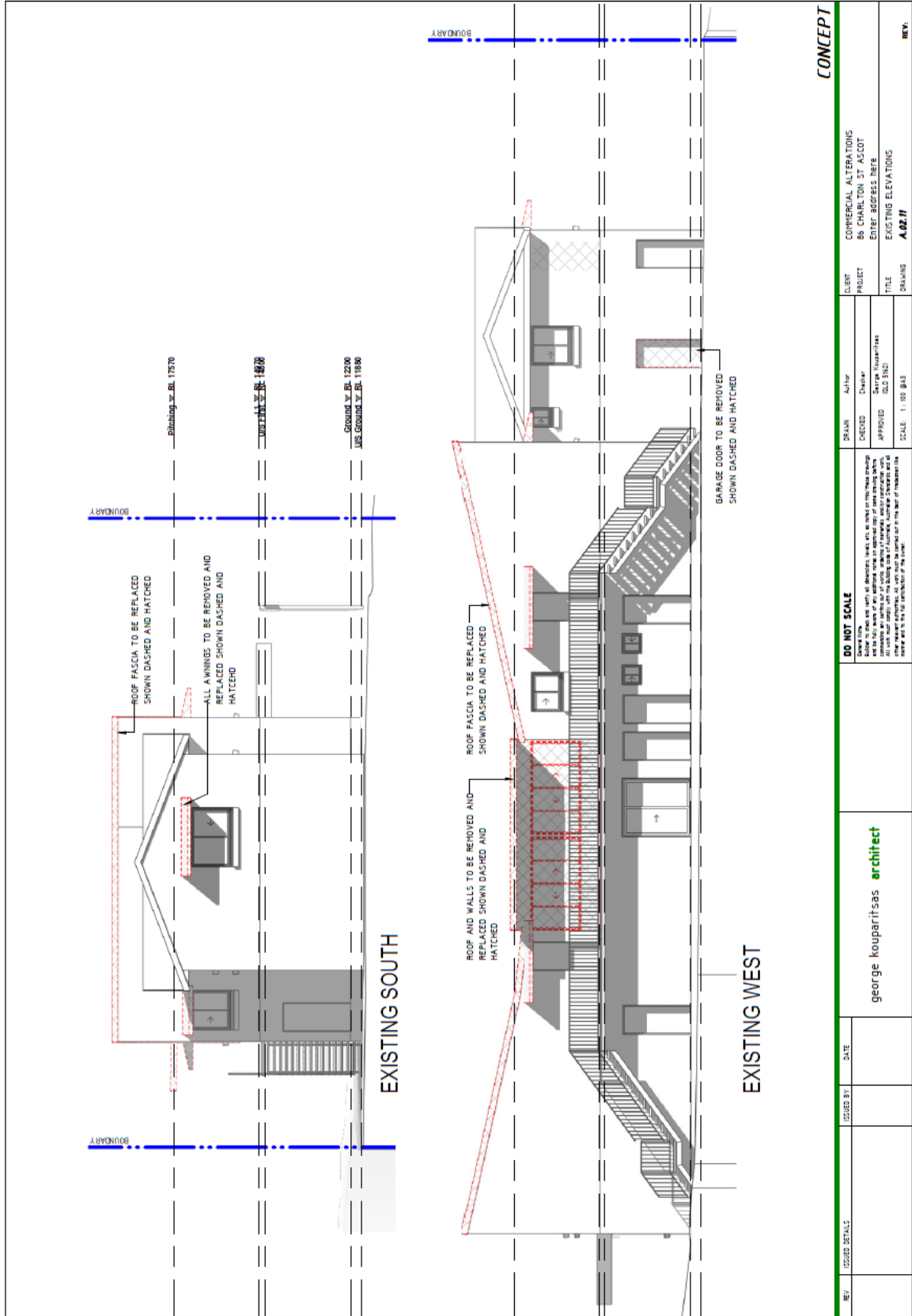
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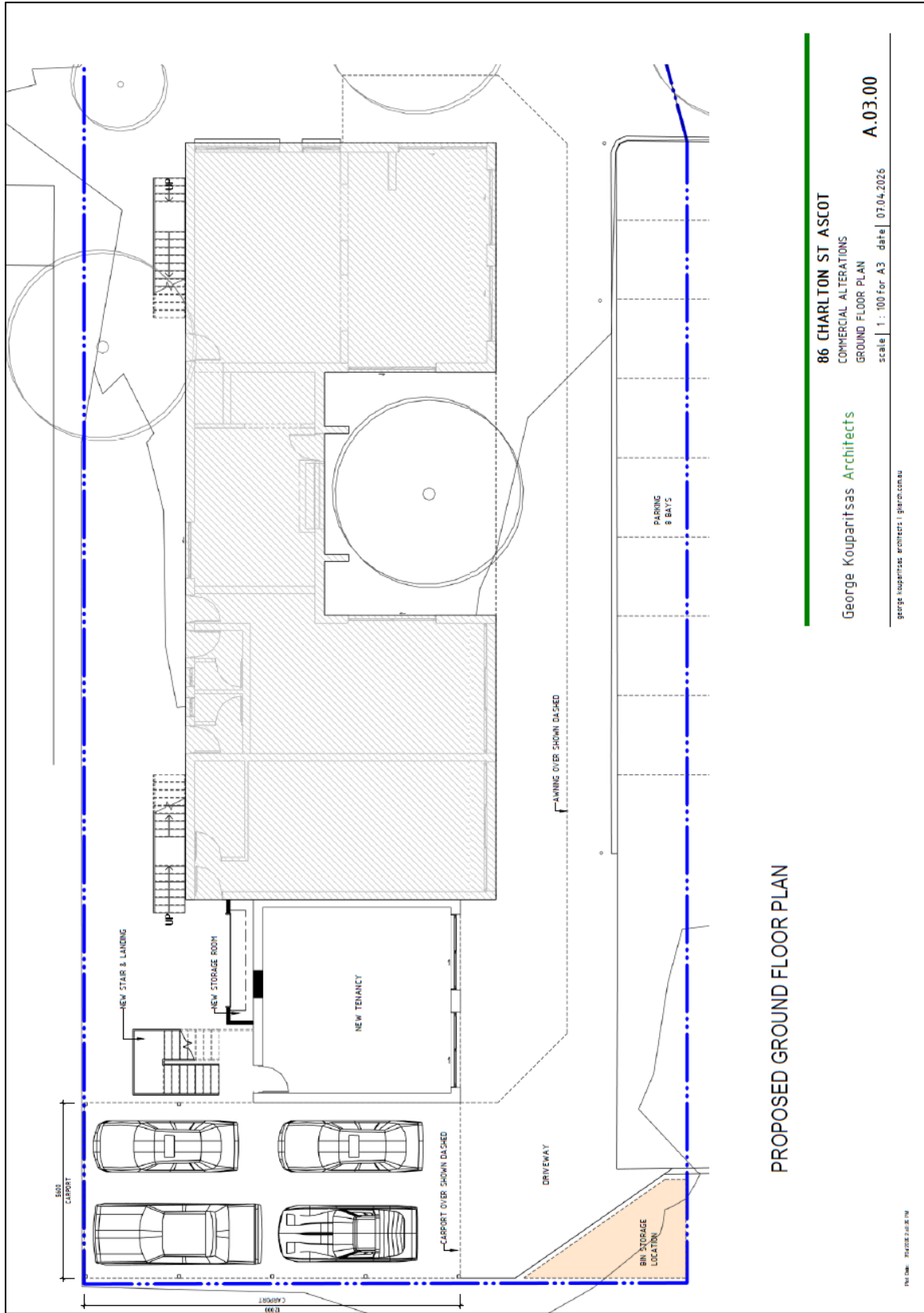
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| <p>george kouparitsas architect</p>  |  | <p>CLIENT</p> <p>COMMERCIAL ALTERATIONS</p> <p>PROJECT</p> <p>86 CHARLTON ST ASCOT</p> <p>ENTER ADDRESS HERE</p> <p>TITLE</p> <p>EXISTING ROOF PLAN</p> <p>DRAWING</p> <p>A.02.02</p> |
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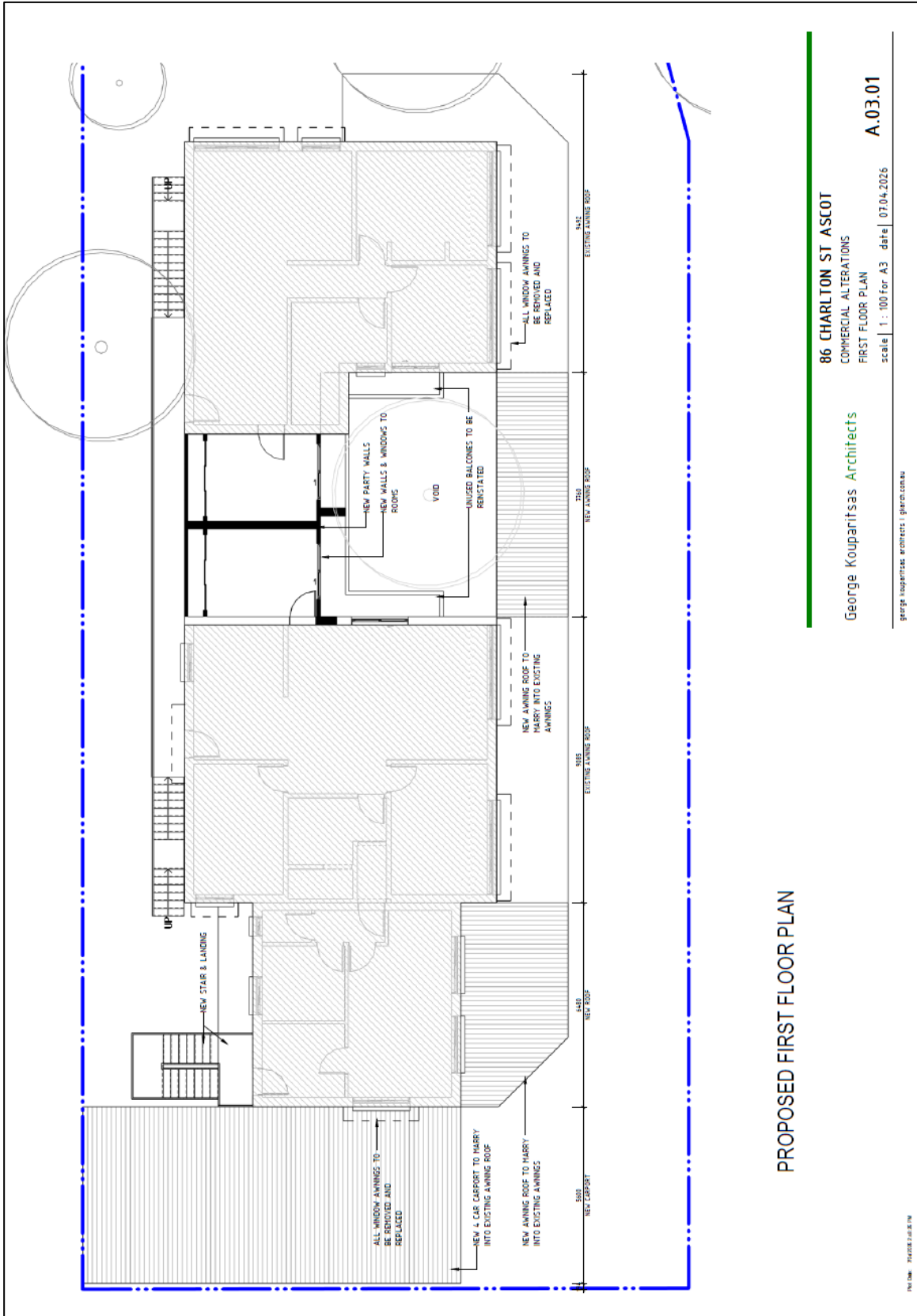
PROPOSED GROUND FLOOR PLAN

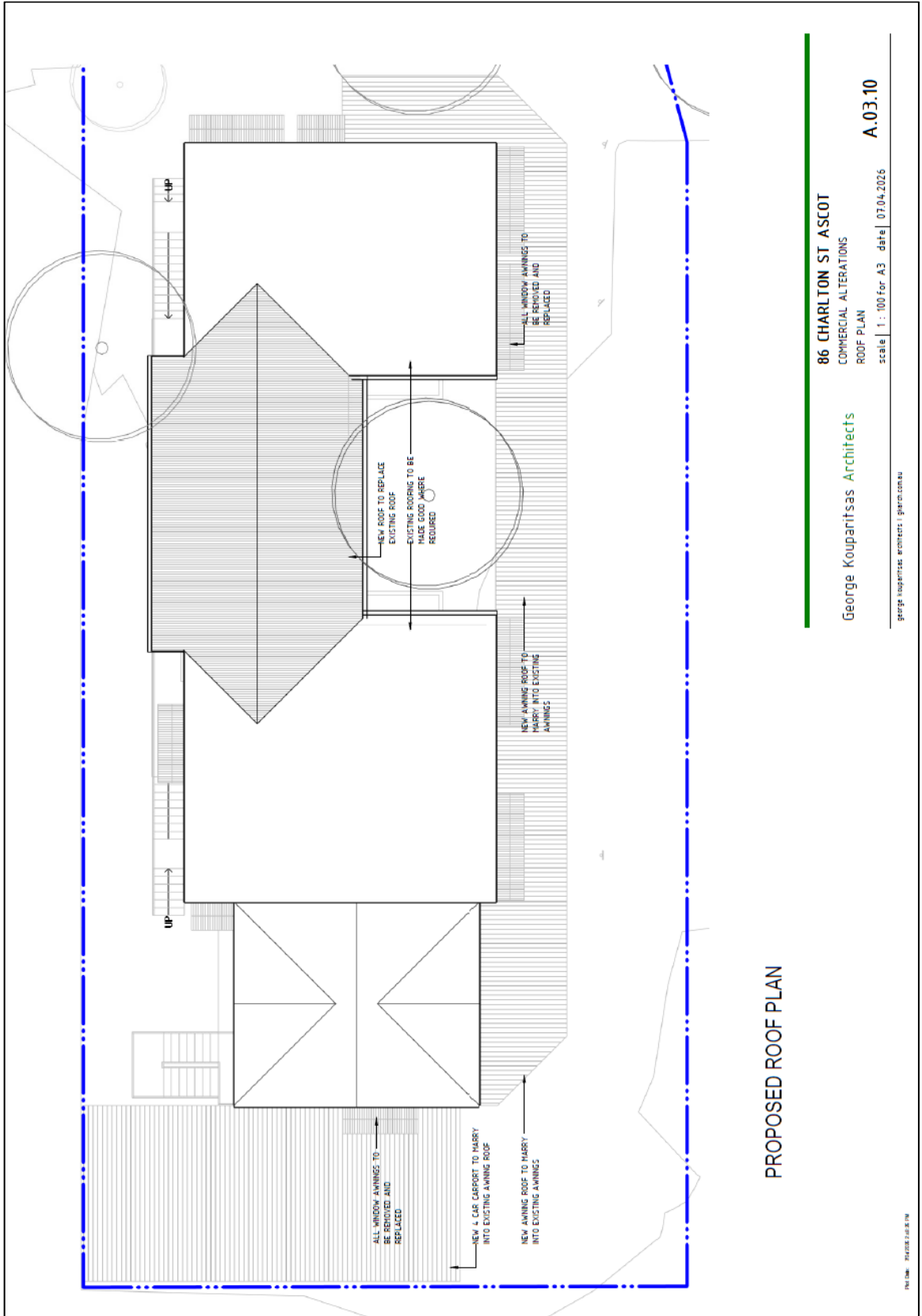
86 CHARLTON ST ASCOT  
 COMMERCIAL ALTERATIONS  
 GROUND FLOOR PLAN  
 scale | 1 : 100 For A3 | date | 07.04.2026 | A.03.00

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FW 004 2024/05/08





PROPOSED ROOF PLAN

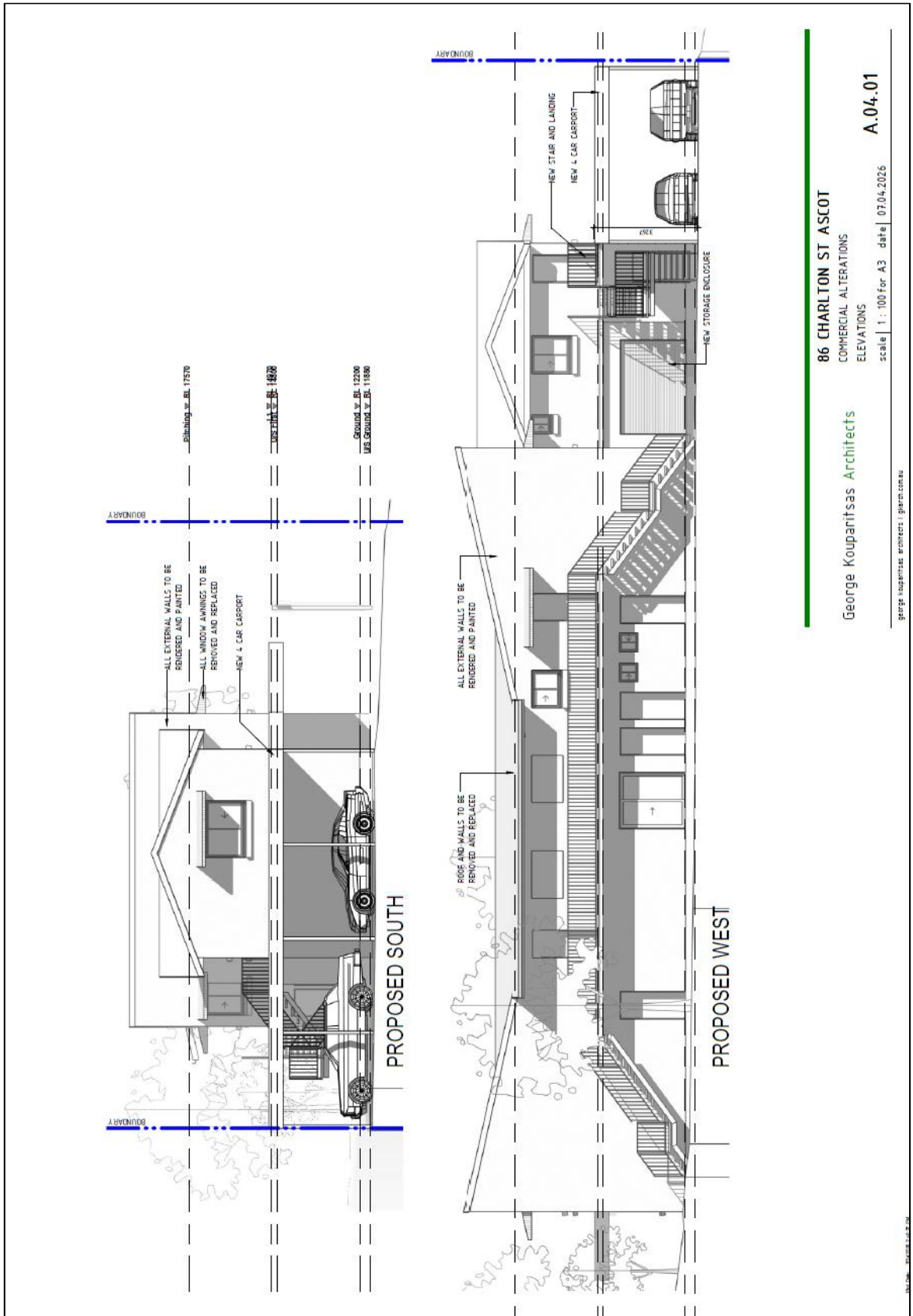
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 ROOF PLAN  
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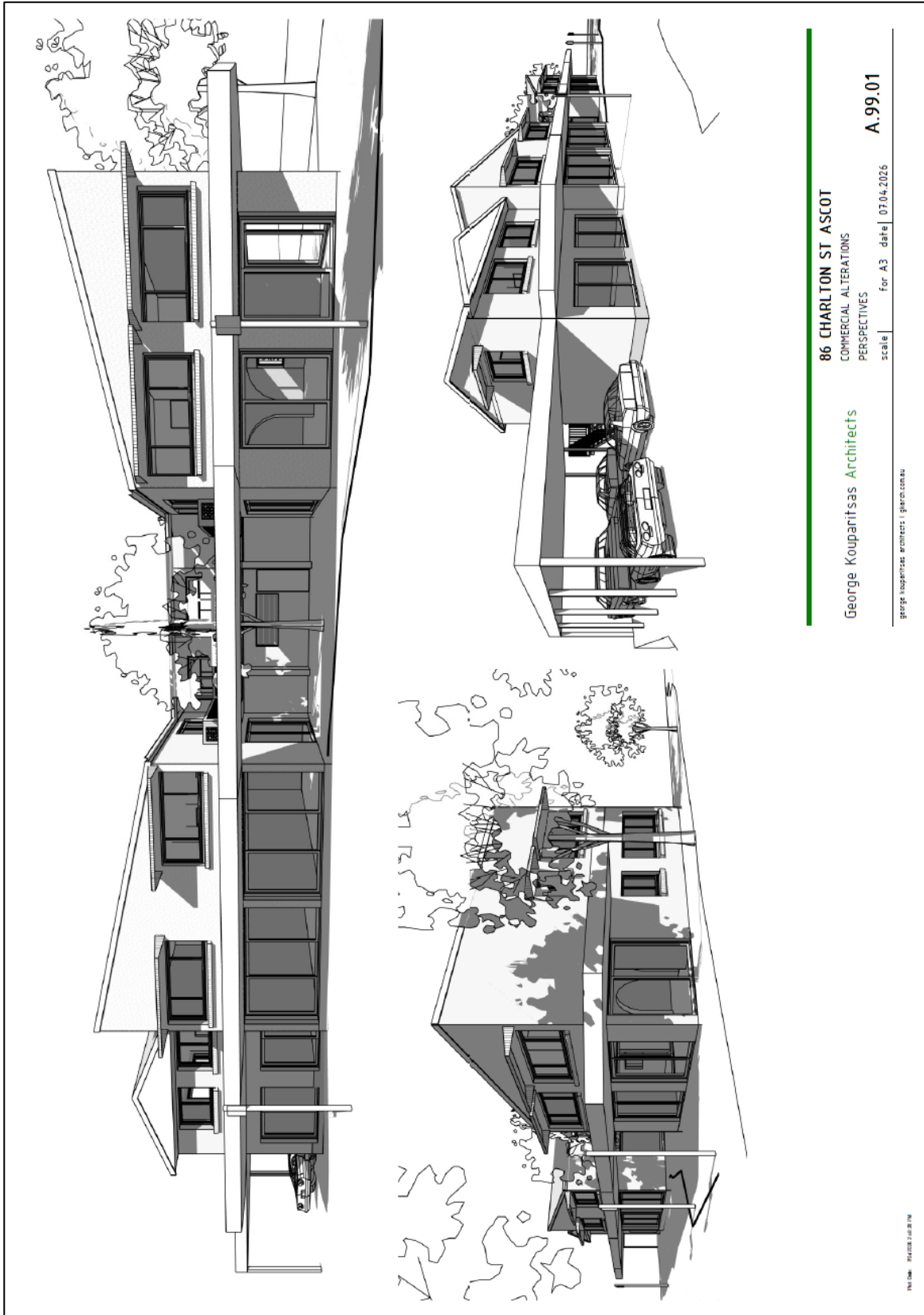


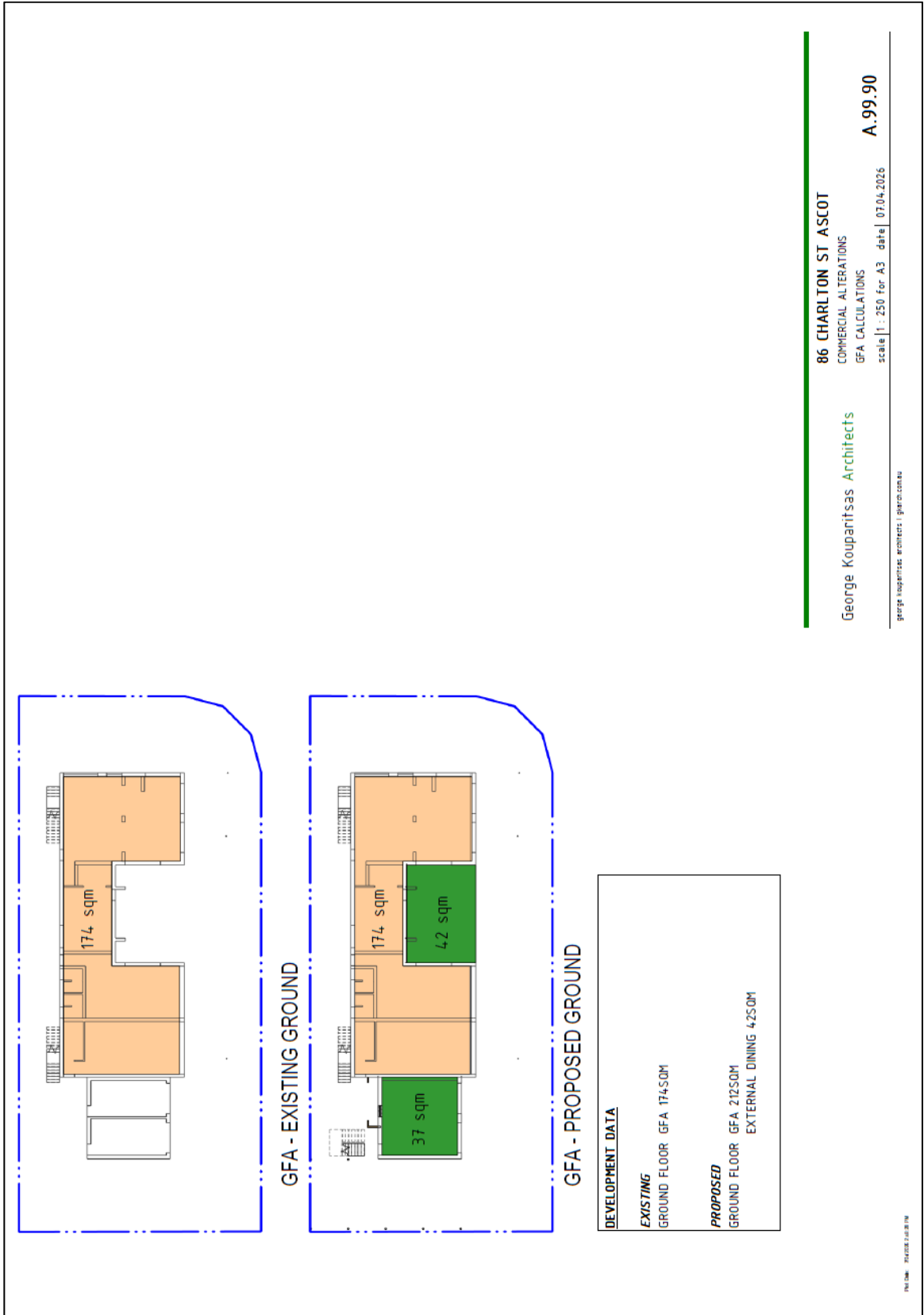
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 COMMERCIAL ALTERATIONS  
 PERSPECTIVES  
 scale for A3 date 07.04.2026  
**A.99.00**

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**86 CHARLTON ST ASCOT**  
 COMMERCIAL ALTERATIONS  
 GFA CALCULATIONS  
 scale | 1 : 250 for A3 | date | 07.04.2026  
**A.99.90**

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gk

## Appendix B: Glossary

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### ***Ambient sound***

All sounds in a locality or “soundscape” from distant and nearby sources or activity including traffic, bird song, vegetation movement in the breeze, and so on.

### ***Assessment Background Level (ABL)***

The Assessment Background Level is the single figure background level representing each assessment period (day, evening and night) for each day. It is determined by calculating the 10th percentile (lowest 10th percent) background level (LA90) for each period.

### ***Background sound pressure level (LA90,T), L90***

Commonly called the "L90" or "background" level and is an indicator of the quietest times of day, evening or night. The L90 level is calculated as the noise level equalled and exceeded for 90% the measurement time. The level is recorded in the absence of any noise under investigation. The level is not adjusted for tonality or impulsiveness. Also known as the background “noise” level.

### ***Character of the environment***

The *character of the environment* is often assessed by third-octave or narrow band analysis of the ambient sound. Sounds may be characterised, for example, as “bangs”, “hum noise”, “plant sounds”, and “high frequency sounds”. The assessment is required to determine intrusive noise, tonality or annoying character.

### ***Equivalent Continuous or time average sound pressure level (LAeq,T), Leq***

Commonly called the "Leq" level it is the logarithmic average noise level from all sources far and near and is referenced to a specific measurement time interval; e.g. 15-minutes or 1-hour. The level can be adjusted for tonality.

### ***Immission***

The sound energy received at a receptor location. Distinguished from emission, which relates to noise emitted from a location.

### ***LA10***

The LA10 level is the noise level which is exceeded for 10% of the sample period. During the sample period, the noise level is below the LA10 level for 90% of the time. The LA10 is a common noise descriptor for environmental noise and road traffic noise.

### ***NMS***

Noise Measurement Services Pty Ltd

### ***Rating Background Level (RBL)***

The overall, single-figure, background level representing each assessment period (day/evening/night) over the whole monitoring period (as opposed to over each 24-hour period used for the assessment of background level. This is defined as the median value of all the day evening or night assessment background levels.