



DAY DESIGN PTY LTD
CONSULTING ACOUSTICAL ENGINEERS

SUITE 17, 808 FOREST ROAD, PEAKHURST 2210 ABN 73 107 291 494
P. 02 9046 3800 ACOUSTICS@DAYDESIGN.COM.AU WWW.DAYDESIGN.COM.AU

Environmental Noise Impact Assessment

Place of Public Worship
64 Mountford Avenue, Guildford, NSW

REPORT NUMBER
6730-1.1R

DATE ISSUED
5 September 2019

Prepared For:
Designiche
1/45 Crosby Street
Greystanes NSW 2145

Attention: Mr Orhan Kaba



Revision History

Status	Date	Prepared	Checked	Comment
Draft	23/05/2019	Adam Shearer	Stephen Gauld	By email, for client review
Draft 2	25/06/2019	Adam Shearer	Stephen Gauld	By email, for client review
Final	29/08/2019	Adam Shearer	Stephen Gauld	

Document 6730-1.1R, 32 pages plus attachments

Disclaimer

The work presented in this document was carried out in accordance with the Day Design Pty Ltd Quality Management System. Day Design is certified to ISO9001.

Day Design Pty Ltd reserves all copyright of intellectual property in any or all of Day Design's documents. No permission, license or authority is granted by Day Design to any person or organisation to use any of Day Design's documents for any purpose without written consent of Day Design.

This report has been prepared for the client identified in Section 2.0 only and cannot be relied or used by any third party. Any representation, statement, opinion or advice, expressed or implied in this report is made in good faith but on the basis that Day Design is not liable (whether by reason of negligence, lack of care or otherwise) to any person for any damage or loss whatsoever which has occurred or may occur in relation to that person taking or not taking (as the case may be) action in any respect of any representation, statement, or advice referred to above.

Recommendations made in this report are intended to resolve acoustical problems only. No claims of expertise in other areas are made and no liability is accepted in respect of design or construction for issues falling outside the specialist field of acoustical engineering including but not limited to structural, fire, thermal, architectural buildability, fit for purpose, waterproofing or other aspects of building construction. Supplementary professional advice should be sought in respect of these issues.

The information in this document should not be reproduced, presented or reviewed except in full. Prior to passing onto a third party, the Client is to fully inform the third party of the specific brief and limitations associated with the commission. The only exception to this is for the Regulatory Authority in its use of this report to make a Determination.



TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	5
2.0	CONSULTING BRIEF	6
3.0	SITE & DEVELOPMENT DESCRIPTION	7
3.1	Site Description	7
3.2	Development Description	8
4.0	ACOUSTICAL CRITERIA	11
4.1	Background Noise Level	11
4.2	Cumberland Council	12
4.3	NSW Environment Protection Authority	13
4.3.1	Noise Policy for Industry 2017	13
4.3.1.1	Intrusiveness Criteria	13
4.3.1.2	Protecting Noise Amenity	14
4.3.1.3	Sleep Disturbance Criteria	15
4.3.2	NSW Road Noise Policy	16
4.4	Project Specific Noise Criteria	17
5.0	NOISE EMISSIONS	18
5.1	Place of Public Worship Services	18
5.2	Car Park Noise Emissions	19
5.3	Mechanical Plant	20
5.4	Predicted Noise Levels at Residential Receptors	22
5.4.1	Predicted Guildford Mosque Noise Emissions – General Operations	22
5.4.2	Predicted Guildford Mosque Noise Emissions – Sleep Disturbance	27
5.4.3	Predicted Guildford Mosque Noise Emissions – On-Road Traffic Noise	28
6.0	NOISE CONTROL RECOMMENDATIONS	29
6.1	Noise Management Plan	29
6.2	Driveway Sound Barrier Wall	30
6.3	Remedial Acoustic Treatment of Neighbouring Property	30
6.4	Construction Certificate - Mechanical Plant	31
7.0	NOISE IMPACT STATEMENT	32



TABLES

Table 1	Noise Sensitive Receptors.....	7
Table 2	Ambient Noise Levels.....	11
Table 3	Amenity Criteria (NPI - Table 2.2).....	14
Table 4	Road Traffic Noise Assessment Criteria – Residential	16
Table 5	People Talking – $L_{eq, 15 \text{ minute}}$ Sound Power Levels.....	18
Table 6	People Talking Raised Voice– L_{AFmax} Sound Power Levels.....	19
Table 7	SEL and L_{AFmax} Sound Power Levels - Vehicles	19
Table 8	Mechanical Plant – $L_{eq, 15 \text{ minute}}$ Sound Power Levels	20
Table 9	Silencer Insertion Loss	21
Table 10	Predicted $L_{eq, 15 \text{ minute}}$ Noise Levels at Receptor Locations – Early Morning & Early Night (5.30 am – 7 am & 10 pm - 11 pm).....	23
Table 11	Predicted $L_{eq, 15 \text{ minute}}$ Noise Levels at Receptor Locations – Day & Evening (7 am – 10 pm).....	25
Table 12	Predicted $L_{eq, 15 \text{ minute}}$ Noise Levels at Receptor Locations – Night (11 pm – 6 am).....	26
Table 13	Predicted L_{AFmax} Noise Levels – Sleep Disturbance.....	27
Table 14	Predicted $L_{eq, 1 \text{ hour}}$ Noise Levels – On – Road Traffic	28



1.0 EXECUTIVE SUMMARY

Guildford Mosque proposes to demolish the existing place of public worship and construct a new place of public worship at 64 Mountford Avenue, Guildford, NSW. Cumberland Council will require an acoustic report that assesses the environmental noise impact of the proposal on the surrounding area.

The existing site is located on land zoned R4 – *High Density Residential* under the Parramatta Local Environment Plan (LEP) 2011.

Guildford Mosque currently provides services within the place of public worship for up to 450 people, which includes the Imam speaking with an amplified voice.

The existing site is bounded by Mountford Avenue to the north and residential premises to the east, south and west.

The new place of public worship will comprise of a three storey building containing the following:

- lower basement level – 31 parking spaces;
- basement level – 27 parking spaces;
- level 1 – male prayer hall, lecture hall, kitchen, coffee/book store, Imams Room, colonnade, main foyer and amenities;
- level 2 – female prayer hall, classrooms, ladies room, board room, offices and amenities; and
- level 3 – guest rooms, youth room, kitchen, plant room and amenities.

The proposed floor plans are shown in the attached Appendix A.

Acceptable noise limits are derived from the Environment Protection Authority's (EPA) *Noise Policy for Industry 2017* for intrusive noise impacts from noise associated with people, vehicles and mechanical plant and for potential sleep disturbance from noise associated with people and vehicles within the development site. Acceptable noise limits are derived from the NSW *Road Noise Policy* for on-road traffic associated with vehicles arriving and leaving the development site.

Recommendations are made in Section 6 of this report to reduce the level of noise emission to within acceptable limits. These include a noise management plan, relocating the driveway and carrying out a further assessment of mechanical plant noise prior to the issue of a Construction Certificate.

Providing the noise control recommendations are implemented and adhered to the EPA's acceptable noise limits can be met.



2.0 CONSULTING BRIEF

Day Design Pty Ltd was engaged by Designiche to assess the environmental noise impact of a proposed place of public worship at 64 Mountford Avenue, Guildford, NSW.

This commission involves the following:

Scope of Work:

- Inspect the site and environs
- Prepare a site plan identifying the site and nearby noise sensitive locations
- Establish acceptable noise level criteria
- Quantify noise emissions from the development
- Calculate the level of noise emission, taking into account building envelope transmission, screen walls, distance loss, etc
- Provide recommendations for noise control
- Prepare an Environmental Noise Impact Assessment Report.



3.0 SITE & DEVELOPMENT DESCRIPTION

3.1 Site Description

Guildford Mosque is located at 64 Mountford Avenue, Guildford, NSW. The existing site is located on land zoned *R4 – High Density Residential* and is bounded by Mountford Avenue to the north and residential premises to the east, south and west.

Guildford Mosque consists of a single storey building on the northern side of the site. The site also contains two ancillary buildings on the southern side and a car park on the north-western side.

The nearest noise sensitive receivers are located in the residential dwellings on the opposite side of Mountford Avenue to the north and adjacent to the site to the east, south and west.

The nearest noise sensitive receptors to the property, in various directions, are shown on Figure 1 and as follows in Table 1.

Table 1 Noise Sensitive Receptors

Receptor and Type	Address	Direction from site
R1 – Residence	69-71 Mountford Avenue	North
R2 – Residence (front)	60 Mountford Avenue	East
R2a – Residence (rear)	60 Mountford Avenue	East
R3 – Residence	10 Talbot Road	South
R4 – Residence (front)	66 Mountford Avenue	West
R4a – Residence (rear)	66 Mountford Avenue	West





Figure 1. Location Plan – 64 Mountford Avenue, Guildford, NSW.

3.2 Development Description

Guildford Mosque currently provides services within the place of public worship for up to 450 people, which includes one Imam speaking with an amplified voice.

The new place of public worship (Guildford Mosque) development will comprise of a three storey building containing the following:

- lower basement level – 31 parking spaces;
- basement level – 27 parking spaces;
- level 1 – male prayer hall, lecture hall, kitchen, coffee/book store, Imams Room, colonnade, main foyer and amenities;
- level 2 – female prayer hall, classrooms, ladies room, board room, offices and amenities; and
- level 3 – guest rooms, youth room, kitchen, plant room and amenities.

The proposed floor plans are shown in the drawings provided by Designiche Building Designers, dated 5 March 2019, attached as Appendix A.

Information relating the general use / operation of the site has been extracted from the Operational Plan of Management prepared by ICMG, dated June 2019, attached as Appendix C, and is summarised below.

The primary use of the Guildford Mosque is for prayer. Ancillary uses include administrative use (offices), café / bookstore, social support services, women's art and craft workshops, seminars and workshops with guest speakers, youth activities and Saturday community language school.

The proposed operating hours and uses for the place of public worship are as follows:

Primary Use –

- *There are five (5) prayer services per day, each of which operates for a maximum of **15 minutes** and at approximately the following starting times:*
 - *Sunrise prayer between 6¹-7 am - **30-40 people**;*
 - *Lunch time prayer between 12-1 pm - **40-50 people**;*
 - *Afternoon prayer between 3-4:30 pm - **20-30 people**;*
 - *Sunset prayer between 5-7 pm - **30-40 people**; and*
 - *Evening prayer between 7-10 pm - **60-70 people**.*
- *In addition there will be a number of cultural special events throughout the year:*
 - *Weekly Friday prayers for **30-40 min duration** between the hours of **12.30 pm-2 pm** with a maximum of **450 people** in attendance;*
 - *Ramadan (**30 days per calendar year**) prayers **40 min duration** between **7-9 pm** daily with a maximum of **250 people** in attendance;*
 - *First Eid Prayers (Ramadan Eid Prayers – following day after the end of Ramadan) prayers **30 min duration** between **6 – 8 am** maximum of **300 people**; and*
 - *Second Eid Prayers (Eid of Adha Prayers – 70 days after the first Eid Prayers) prayers **30 min duration** between **6 – 8 am** maximum of **300 people**.*

It is noted that during prayer, none of the ancillary uses will take place.

Ancillary Uses –

- *Administration – Monday to Friday 9 am to 6 pm and Saturdays 9 am to 4 pm – **4 – 5 Staff**;*
- *Association Meetings – Monday to Sunday 9 am to 9 pm – **maximum 15 people**;*
- *Women's arts and crafts workshops – Monday to Sunday 9 am to 6 pm – **10 - 15 people**;*
- *Bookshop and café - Monday to Friday 9 am to 6 pm and Saturdays 9 am to 4 pm – **2 Staff**;*
- *Seminars and workshops – Monday to Thursday 9 am to 9 pm and Friday and Saturday 9 am to 11 pm – **190 people**;*

¹ This may vary during the year, ie earlier in summer.



- *Youth activities – Saturdays 6 pm to 9 pm – **40 people**; and*
- *Saturday community language school – Saturdays 9 am to 2 pm – **80 students and 4 teachers**.*

Services may include amplified speech. Speakers are proposed to be installed in the hallway, foyer entrance and colonnade for announcements.

Air conditioning units and exhaust / supply fans will be required to serve the building. The proposed mechanical plant layout is shown in the drawings provided by Viscona Building Services Engineers, dated 20 March 2019, attached as Appendix B.



4.0 ACOUSTICAL CRITERIA

4.1 Background Noise Level

In order to assess the severity of a possible environmental noise problem in a residential area it is necessary to measure the ambient background noise level at the times and locations of worst possible annoyance. The lower the background noise level, the more perceptible the intrusive noise becomes and the more potentially annoying.

The ambient L_{90} background noise level is a statistical measure of the sound pressure level that is exceeded for 90% of the measuring period (typically 15 minutes).

The Rating Background Level (RBL) is defined by the NSW EPA as the median value of the (lower) tenth percentile of L_{90} ambient background noise levels for day, evening or night periods, measured over a number of days during the proposed days and times of operation.

The places of worst possible annoyance are the residential premises located to the north, east, south and west of the site, 'R1' to 'R4'. These potentially affected locations can be seen on Figure 1. The times of greatest annoyance will be during the early morning, day and evening when noise generating activities are taking place.

An environmental noise logger was placed in the front yard of 69 Mountford Avenue, Guildford from Wednesday 20 March to Thursday 28 March 2019 and also in the backyard of 11 Bury Road from Monday 1 April to Friday 5 April 2019 to determine the Rating Background Level. These location are shown in Figure 1 as Location 'A' and Location 'B', respectively.

The measured noise levels are presented in the attached Appendix D1 and D2 and also below in Table 2. The noise survey instrumentation used in this assessment is presented in the attached Appendix E.

Table 2 Ambient Noise Levels

Noise Measurement Location	Time Period	L_{90} Rating Background Level	Existing L_{eq} Noise Levels
Location 'A' – Front Yard, 69 Mountford Avenue, Guildford	Early Morning (5.30 am to 7 am)	41 dBA	n/a
	Day (7 am to 6 pm)	43 dBA	63 dBA
	Evening (6 pm to 10 pm)	44 dBA	59 dBA
	Early Night (10 pm to 11 pm)	42 dBA	n/a
	Night (10 pm to 7 am)	36 dBA	51 dBA
Location 'B' – Backyard, 11 Bury Road, Guildford	Early Morning (5.30 am to 7 am)	40 dBA	n/a
	Day (7 am to 6 pm)	40 dBA	56 dBA
	Evening (6 pm to 10 pm)	42 dBA	59 dBA
	Early Night (10 pm to 11 pm)	40 dBA	n/a
	Night (10 pm to 7 am)	35 dBA	44 dBA

Meteorological conditions during the testing typically consisted of clear skies with some rain periods and temperatures of 9 to 32°C. Rain affected data has been removed from the assessment period. Atmospheric conditions were ideal for noise monitoring. Noise measurements were therefore considered reliable and typical for the receptor area.



4.2 Cumberland Council

Cumberland Council in its Parramatta Development Control Plan 2011, Section 5 – *Other Provisions*, Subsection 5.3 – *Places of Public Worship and Educational Establishments* provides the following objectives and design principles specific to acoustics:

'5.3.3 Planning Controls for Places of Public Worship and Educational Establishments

Acoustic Privacy

Objectives

- O.5 To minimise noise levels from places of public worship and educational establishments that may impact upon neighbouring or nearby properties.*

Design Principles

- P.7 The design of the proposed place of public worship or educational establishment should minimise the projection of noise from the various activities anticipated to occur within the site. Adjoining and nearby residents should not be exposed to unreasonable levels of noise arising from the proposed use.*
- P.8 A noise impact assessment statement, prepared by a suitably qualified acoustic engineer, is to be submitted with all applications for development within residential zones or which adjoin residential zones. This should describe hours of operation and predicted noise levels for regular lunch and tea breaks and for special events such as festivals and religious celebrations. Where possible, reference should be made to similar operating uses whether or not within the Parramatta Local Government area.'*



4.3 NSW Environment Protection Authority

4.3.1 Noise Policy for Industry 2017

The NSW Environment Protection Authority (EPA) published the *Noise Policy for Industry* (NPI) in October 2017. The *NPI* is specifically aimed at assessing noise from industrial noise sources listed in Schedule 1 of the Protection of the Environment Operations Act 1997 (POEO, 1997).

The *NPI* provides a framework to assess noise emission from a premises, and whether that premises produces intrusive or non-intrusive noise.

4.3.1.1 Intrusiveness Criteria

The EPA states in Section 2.3 of its *NPI* (October 2017) that the intrusiveness of an industrial noise source may generally be considered acceptable if the level of noise from the source (represented by the L_{Aeq} descriptor), measured over a 15-minute period, does not exceed the rating background noise level by more than 5 dB when beyond a minimum threshold (EPA *NPI*, 2017, Section 2.3).

The Rating Background Level at Location 'A', 69 Mountford Avenue, Guildford was 41 dBA in the early morning, 43 dBA during the day, 44 dBA in the evening, 42 dBA in the early night and 36 dBA at night (see Table 2).

The Rating Background Level at Location 'B', 11 Bury Road, Guildford was 40 dBA in the early morning and during the day, 42 dBA in the evening, 40 dBA in the early night and 35 dBA at night (see Table 2). Location 'B' was selected to represent the acoustic environment in the properties to the rear of the development site ('R3') and the backyards of 60 and 66 Mountford Avenue ('R2a' and 'R4a'). The acoustic environment in these locations is shielded from traffic noise on the nearby local roads, hence the lower ambient noise levels. Day Design is of the opinion the ambient noise levels measured at Location 'B' are representative of the likely ambient noise levels at 'R2a', 'R3' and 'R4a'.

The *NPI* in Section 2.3, states the following:

"The objective of carrying out long-term background noise monitoring at a location is to determine existing background noise levels that are indicative of levels during the entire year. However, the RBL for evening or night periods calculated from long-term unattended background noise monitoring can sometimes be higher than the RBL for the daytime period. This situation can arise due to increased noise from, for example, insects or frogs during the evening and night in the warmer months, or due to temperature inversion conditions during winter."

In determining project noise trigger levels from RBLs, the community's expectations also need to be considered. The community generally expects greater control of noise during the more sensitive evening and night-time periods than during the less sensitive daytime period. Therefore, in determining project noise trigger levels for a particular development, it is generally recommended that the project intrusiveness noise level for evening be set at no greater than the project intrusiveness noise level for daytime. The project intrusiveness noise level for night-time should be



no greater than the project intrusiveness noise level for day or evening. Alternative approaches to these recommendations may be adopted if appropriately justified."

Therefore, the acceptable $L_{eq, 15 \text{ minute}}$ noise intrusiveness criteria in Location 'A' and Location 'B' are:

Location 'A' -

- $(41 + 5 =) 46 \text{ dBA } L_{eq, 15 \text{ minute}}$ in the early morning;
- $(43 + 5 =) 48 \text{ dBA } L_{eq, 15 \text{ minute}}$ during the day and in the evening;
- $(42 + 5 =) 47 \text{ dBA } L_{eq, 15 \text{ minute}}$ in the early night; and
- $(36 + 5 =) 41 \text{ dBA } L_{eq, 15 \text{ minute}}$ at night.

Location 'B' -

- $(40 + 5 =) 45 \text{ dBA } L_{eq, 15 \text{ minute}}$ in the early morning, during the day, in the evening and in the early night; and
- $(35 + 5 =) 40 \text{ dBA } L_{eq, 15 \text{ minute}}$ at night.

4.3.1.2 Protecting Noise Amenity

Depending on the type of area in which the noise is being made, there is a certain reasonable expectancy for noise amenity. The *NPI* provides a schedule of recommended L_{eq} industrial noise levels that under normal circumstances should not be exceeded. If successive developments occur near a residential area, each one allowing a criterion of background noise level plus 5 dB, the ambient noise level will gradually creep higher.

The recommended L_{eq} noise levels below in Table 3 are taken from Section 2.4, Table 2.2 of the *NPI*. Compliance with the Noise Amenity levels in Table 2.2 will limit ambient noise creep.

Table 3 Amenity Criteria (NPI - Table 2.2)

Receiver	Noise Amenity Area	Time of Day	L_{eq} , dBA, Recommended Amenity Noise Level
Residential	Urban	Day	60
		Evening	50
		Night	45

The L_{Aeq} is determined over a 15-minute period for the project intrusiveness noise level and over an assessment period (day, evening and night) for the project amenity noise level. This leads to the situation where, because of the different averaging periods, the same numerical value does not necessarily represent the same amount of noise heard by a person for different time periods. To standardise the time periods for the intrusiveness and amenity noise levels, the *NPI* assumes that the $L_{Aeq, 15 \text{ min}}$ will be taken to be equal to the $L_{Aeq, \text{period}} + 3 \text{ decibels (dB)}$ (Section 2.2, *NPI*).



Compliance with the amenity criteria will limit ambient noise creep. **Section 2.4** of the *NPI* states the following:

*‘To ensure that industrial noise levels (existing plus new) remain within the recommended amenity noise levels for an area, a **project amenity noise level** applies for each new source of industrial noise as follows:*

- ***Project amenity noise level for industrial developments = recommended amenity noise level (Table 2.2) minus 5 dB (A).***

The following exceptions to the above method to derive the project amenity noise level apply:

3. *Where the resultant project amenity noise level is 10 dB or more lower than the existing industrial noise level. In this case the project amenity noise levels can be set at 10 dB below existing industrial noise levels if it can be demonstrated that existing industrial noise levels are unlikely to reduce over time.’*

The existing L_{eq} noise level at Location ‘A’, 69 Mountford Avenue, Guildford was 63 dBA during the day, 59 dBA in the evening and 51 dBA at night (see Table 2).

The existing L_{eq} noise level at Location ‘B’, 11 Bury Road, Guildford was 56 dBA during the day, 59 dBA in the evening and 44 dBA at night (see Table 2).

Therefore, the acceptable amenity criteria in Location ‘A’ and Location ‘B’ are:

Location ‘A’ -

- $(60 - 5 + 3 =) 58$ dBA $L_{eq, 15 \text{ minute}}$ during the day;
- $(59 - 10 + 3 =) 52$ dBA $L_{eq, 15 \text{ minute}}$ in the evening; and
- $(51 - 10 + 3 =) 44$ dBA $L_{eq, 15 \text{ minute}}$ at night.

Location ‘B’ -

- $(60 - 5 + 3 =) 58$ dBA $L_{eq, 15 \text{ minute}}$ during the day;
- $(59 - 10 + 3 =) 52$ dBA $L_{eq, 15 \text{ minute}}$ in the evening; and
- $(45 - 5 + 3 =) 43$ dBA $L_{eq, 15 \text{ minute}}$ at night.

4.3.1.3 Sleep Disturbance Criteria

The EPA’s *NPI* states in Section 2.5 that the potential for sleep disturbance from maximum noise level events from premises during the night-time period needs to be considered. Sleep disturbance is considered to be both awakenings and disturbance to sleep stages.

Sleep may be disturbed if the subject development night-time noise levels at a residential location exceed the following:

- $L_{Aeq, 15min}$ 40 dBA or the prevailing RBL plus 5 dB, whichever is greater; and/or
- L_{AFmax} 52 dBA or the prevailing RBL plus 15 dB, whichever is greater.

Where either of the above criteria are triggered, a detailed maximum noise level event assessment should be undertaken.



The RBL at Location 'A', 69 Mountford Avenue, Guildford was 41 dBA in the early morning (see Table 2).

The RBL at Location 'B', 11 Bury Road, Guildford was 40 dBA in the early morning (see Table 2).

Therefore, the acceptable $L_{eq, 15 \text{ minute}}$ and L_{AFmax} noise sleep disturbance criteria in in Location 'A' and Location 'B' are:

Location 'A' -

- $(41 + 5 =) 46 \text{ dBA } L_{eq, 15 \text{ minute}}$ in the early morning; and / or
- $(41 + 15 =) 56 \text{ dBA } L_{AFmax}$ in the early morning.

Location 'B' -

- $(40 + 5 =) 45 \text{ dBA } L_{eq, 15 \text{ minute}}$ in the early morning; and / or
- $(40 + 15 =) 55 \text{ dBA } L_{AFmax}$ in the early morning.

4.3.2 NSW Road Noise Policy

The EPA's NSW Road Noise Policy, Table 3 of Section 2.3.1, sets out road traffic noise assessment criteria for residential land uses. The information in the aforementioned table is extracted below in Table 4.

Table 4 Road Traffic Noise Assessment Criteria – Residential

Road Category	Type of project/land use	Assessment Criteria – dBA	
		Day (7 am – 10 pm)	Night (10 pm – 7 am)
Local roads	1. Existing residences affected by additional traffic on existing local roads generated by land use developments	$L_{Aeq, (1 \text{ hour})}$ 55 (external)	$L_{Aeq, (1 \text{ hour})}$ 50 (external)



4.4 Project Specific Noise Criteria

When all the above factors are considered, we find that the most stringent noise criteria is:

The measured background noise level at Location 'A' and Location 'B', has been used to establish the noise criteria at all receptor locations.

These criteria apply at the most-affected point on or within the residential property boundary. For upper floors, the noise is assessed outside the nearest window.

Residential receptors 'R1', 'R2' and 'R4' – based on measurements at Location 'A':

- $(41 + 5 =)$ **46 dBA** $L_{eq, 15 \text{ minute}}$ in the early morning;
- $(43 + 5 =)$ **48 dBA** $L_{eq, 15 \text{ minute}}$ during the day and in the evening;
- $(42 + 5 =)$ **47 dBA** $L_{eq, 15 \text{ minute}}$ in the early night; and
- $(36 + 5 =)$ **41 dBA** $L_{eq, 15 \text{ minute}}$ at night.

Residential receptors 'R2a', 'R3' and 'R4a' – based on measurements at Location 'B':

- $(40 + 5 =)$ **45 dBA** $L_{eq, 15 \text{ minute}}$ in the early morning, during the day, in the evening and in the early night; and
- $(35 + 5 =)$ **40 dBA** $L_{eq, 15 \text{ minute}}$ at night.

Sleep Disturbance Criteria:

Sleep disturbance is to be assessed at 1 metre from the façade of the potentially most affected residential receptors, 'R1', 'R2' and 'R4', based on measurements at Location 'A'.

- $(41 + 15 =)$ **56 dBA** L_{AFmax} during the early morning (5.30 am to 7 am).

On – Road Traffic Noise Criteria:

The on-road traffic noise criterion is to be assessed at 1 metre from the façade of a potentially most affected residential receptors, 'R1', 'R2' and 'R4'.

- **55 dBA** (external) $L_{eq 1 \text{ hour}}$ between 7 am and 10 pm.



5.0 NOISE EMISSIONS

The main sources of noise from the proposed development will be services, vehicles entering / existing the car park and mechanical plant.

Weekly Friday prayers for approximately 450 people within Guildford Mosque and people arriving / leaving for the daily sunrise prayer (40 people), first and second Eid prayer (300 people) and Seminars (190 people) will have the greatest potential to generate noise at the nearby residences.

Amplified speech will be required for services within Guildford Mosque.

5.1 Place of Public Worship Services

We have assumed Guildford Mosque may operate at full capacity during the weekly Friday prayer (see Section 3.2).

We have modelled the noise emission from the Imam talking through a public address system and 450 people (280 x male and 170 x female) responding with a normal voice level.

We have assumed that the windows and doors will be closed during the prayer. We have assumed windows will be constructed with minimum 5 mm thick glazing installed.

Based on information in Harris² and in our noise level database gathered over many years, we calculate the sound power levels for people talking and singing as shown in Table 5.

Table 5 People Talking – Leq, 15 minute Sound Power Levels

Description	Sound Power Levels (dB)								
	at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
Leq, 15 minute Person (Imam) speaking normally through a PA System	80	71	71	77	80	73	69	65	60
Leq, 15 minute 1 x male with a normal voice	63	54	54	60	63	56	52	48	43
Leq, 15 minute 1 x female with a normal voice	60	49	49	56	59	54	49	48	43
Leq, 15 minute 450 people with normal voices and Imam speaking normally through a PA System	89	80	80	86	89	82	78	75	70

² Handbook of Acoustical Measurements and Noise Control, Third Edition, Cyril M. Harris, McGraw-Hill Inc, New York, (Page 16.2)



For the assessment of potential sleep disturbance from worshippers arriving / leaving the Guildford Mosque on foot, we have assumed a worshipper may be talking with a raised voice outside of the entry foyer. Table 6 shows the L_{AFmax} sound power levels of a man speaking with a raised voice.

Table 6 People Talking Raised Voice– L_{AFmax} Sound Power Levels

Description	Sound Power Levels (dB) at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
1 x Male Raised Voice	82	71	71	77	82	77	73	68	61

5.2 Car Park Noise Emissions

The site will provide parking for 58 vehicles in two basement level car parks. Entry and exit to the car park is via Mountford Avenue on the northern side of the site.

For the purpose of assessing the maximum typical noise emission from motor vehicles on-site, we have assumed that all cars may arrive or leave in any given 30 minutes prior to, or after, prayers or seminars.

This results in a typical worst-case scenario of 29 car movements in any given 15-minute period.

The Sound Exposure Level³ (SEL) sound power level and spectrum of cars has been measured by Day Design at various locations and is shown below in Table 7. Table 7 also shows the L_{AFmax} sound power level of vehicle activity for assessment against the sleep disturbance criterion.

Table 7 SEL and L_{AFmax} Sound Power Levels - Vehicles

Description	Sound Power Levels (dB) at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
SEL level of car drive by at approximately 10 km/h	82	90	87	80	78	77	72	70	64
L_{AFmax} of car entering car park	92	98	92	90	88	88	83	80	76

³ SEL is the total sound energy of a single noise event condensed into a one second duration, or in other words, it is a L_{eq} , 1 second.



5.3 Mechanical Plant

The mechanical plant, including air conditioning condensers, kitchen exhaust fan, toilet exhaust fans, garbage room exhaust fans and car park exhaust / supply fans, have not been finalised at this stage. Preliminary concepts however for the exhaust / supply fans have been provided by the mechanical engineer. We have assumed that the mechanical plant will be installed in the locations shown in the drawings attached as Appendix B.

We have assumed at least six (6) heat recovery multi split systems may be required for this size of development and that the condenser units will be installed within the Level 3 plant room. We have assumed that the plant room will have standard aluminium louvres installed on the northern wall for ventilation.

A schedule of the sound power levels for typical mechanical plant have been provided by the manufacturers and are shown below in Table 8.

Table 8 Mechanical Plant – L_{eq} , 15 minute Sound Power Levels

Description	Sound Power Levels (dB) at Octave Band Centre Frequencies (Hz)								
	dBA	63	125	250	500	1k	2k	4k	8k
Heat Recovery Split System Condenser Unit x 6 - <i>Daikin REYQ20TY1</i>	86	86	85	87	85	80	77	73	66
Car Park Exhaust Fan – CEF-1 <i>Fantech AP0714BA7/30</i>	85	87	86	85	83	79	77	75	67
Car Park Supply Fan – CSF-1 <i>Fantech AP0564LP12/17</i>	79	77	77	80	79	73	70	63	54
Garbage Exhaust Fan – CSF-1 <i>Fantech RIL-150SW</i>	63	55	51	59	61	59	56	49	42
Toilet Exhaust Fan – TEF-1 <i>Fantech GUE314V</i>	71	69	70	69	69	66	64	58	51
Toilet Exhaust Fans – TEF-2 & 3 <i>Fantech PUE314ER</i>	70	74	71	64	65	63	65	60	55
Toilet Exhaust Fan – TEF-4 <i>Fantech RIL-150SW</i>	63	55	51	59	61	59	56	49	42
Toilet Exhaust Fan – TEF-5 <i>Fantech RIL-200SW</i>	66	54	50	57	60	63	60	55	48

**Numbers in italics are estimated.*



The insertion loss of the proposed silencers to be located on the inlet of the car park exhaust fan and outlet of the car park supply fan have been provided by the mechanical services engineer and are shown in Table 9.

Table 9 Silencer Insertion Loss

Description	Minimum Insertion Loss (dB) at Octave Band Centre Frequencies (Hz)							
	63	125	250	500	1k	2k	4k	8k
S-1 – CEF-1	3	4	8	14	14	9	7	6
S-2 – CSF - 1	2	4	6	10	14	10	8	7

We recommend a detailed analysis be carried out once mechanical plant units are selected and locations are finalised, prior to the issue of a Construction Certificate.



5.4 Predicted Noise Levels at Residential Receptors

Knowing the sound power level of the likely noise sources (see Tables 5 - 8), the sound pressure level (as measured with a sound level meter) can be calculated at a remote location using suitable formulae to account for building envelope transmission, distance losses, sound barriers, etc.

5.4.1 Predicted Guildford Mosque Noise Emissions – General Operations

The most stringent noise criteria has been used to assess each individual noise source as outlined below.

All predictions in Tables 10 to 12 are based on the assumptions outlined above and the proposed construction detailed in the architectural drawings.



**Table 10 Predicted $L_{eq, 15 \text{ minute}}$ Noise Levels at Receptor Locations –
Early Morning & Early Night (5.30 am – 7 am & 10 pm – 11 pm)**

Receptor Location	Predicted Noise Level	Early Morning & Early Night Criterion	Compliance
'R1' Residence – 69-71 Mountford Ave			
- Services / Special Event	21 dBA	46 - 47 dBA	Yes
- Car Park	31 dBA		Yes
- Mechanical Plant	30 dBA		Yes
– Cumulative	34 dBA	46 - 47 dBA	Yes
'R2' Residence – 60 Mountford Ave (front)			
- Services / Special Event	29 dBA	46 - 47 dBA	Yes
- Car Park	31 dBA		Yes
- Mechanical Plant	37 dBA		Yes
– Cumulative	38 dBA	46 - 47 dBA	Yes
'R2a' Residence – 60 Mountford Ave (rear)			
- Services / Special Event	32 dBA	45 dBA	Yes
- Car Park	< 10 dBA		Yes
- Mechanical Plant	44 dBA		Yes
– Cumulative	44 dBA	45 dBA	Yes
'R3' Residence – 10 Talbot Rd			
- Services / Special Event	22 dBA	45 dBA	Yes
- Car Park	< 10 dBA		Yes
- Mechanical Plant	31 dBA		Yes
– Cumulative	31 dBA	45 dBA	Yes
'R4' Residence – 66 Mountford Ave (front)			
- Services / Special Event	25 dBA	46 - 47 dBA	Yes
- Car Park	41 dBA		Yes
- Mechanical Plant	49 dBA		*No
			(+ 3 to 4 dB)
– Cumulative	50 dBA	46 - 47 dBA	No
			(+ 3 to 4 dB)
'R4a' Residence – 66 Mountford Ave (rear)			
- Services / Special Event	26 dBA	45 dBA	Yes
- Car Park	31 dBA		Yes
- Mechanical Plant	55 dBA		*No
			(+ 10 dB)
– Cumulative	55 dBA	45 dBA	No (+ 10 dB)

**Section 6.4 of this report recommends an assessment of the mechanical plant at the Construction Certificate stage.*



The predicted levels of noise from the proposed Guildford Mosque at the residential receptors, 'R1', 'R2', 'R2a' and 'R3', complies with the early morning and early night criteria in Section 4.4 of this report, and is therefore acceptable.

However, the predicted levels of noise from the proposed Guildford Mosque at the residential receptors, 'R4' and 'R4a', exceeds the early morning and early night criteria in Section 4.4 of this report, therefore noise controls as outlined in Section 6 of this report are necessary.



Table 11 Predicted Leq, 15 minute Noise Levels at Receptor Locations – Day & Evening (7 am – 10 pm)

Receptor Location	Predicted Noise Level	Day & Evening Criterion	Compliance
'R1' Residence – 69-71 Mountford Ave			
- Services / Special Event	24 dBA		Yes
- Car Park	31 dBA		Yes
- Mechanical Plant	30 dBA		Yes
– Cumulative	34 dBA	45 dBA	Yes
'R2' Residence – 60 Mountford Ave (front)			
- Services / Special Event	32 dBA		Yes
- Car Park	31 dBA		Yes
- Mechanical Plant	37 dBA		Yes
– Cumulative	39 dBA	45 dBA	Yes
'R2a' Residence – 60 Mountford Ave (rear)			
- Services / Special Event	35 dBA		Yes
- Car Park	< 10 dBA		Yes
- Mechanical Plant	44 dBA		Yes
– Cumulative	44 dBA	45 dBA	Yes
'R3' Residence – 10 Talbot Rd			
- Services / Special Event	25 dBA		Yes
- Car Park	< 10 dBA		Yes
- Mechanical Plant	31 dBA		Yes
– Cumulative	32 dBA	45 dBA	Yes
'R4' Residence – 66 Mountford Ave (front)			
- Services / Special Event	28 dBA		Yes
- Car Park	41 dBA		Yes
- Mechanical Plant	49 dBA		*No (+ 4 dB)
– Cumulative	49 dBA	45 dBA	No (+ 4 dB)
'R4a' Residence – 66 Mountford Ave (rear)			
- Services / Special Event	29 dBA		Yes
- Car Park	31 dBA		Yes
- Mechanical Plant	55 dBA		*No (+ 10 dB)
– Cumulative	55 dBA	45 dBA	No (+ 10 dB)

**Section 6.4 of this report recommends an assessment of the mechanical plant at the Construction Certificate stage.*



The predicted levels of noise from the proposed Guildford Mosque at the residential receptors, 'R1', 'R2', 'R2a' and 'R3', complies with the day and evening criteria in Section 4.4 of this report, and is therefore acceptable.

However, the predicted levels of noise from the proposed Guildford Mosque at the residential receptors, 'R4' and 'R4a', exceeds the day and evening criteria in Section 4.4 of this report, therefore noise controls as outlined in Section 6 of this report are necessary.

Table 12 Predicted $L_{eq, 15 \text{ minute}}$ Noise Levels at Receptor Locations – Night (11 pm – 6 am)

Receptor Location	Predicted Noise Level	Night Criterion	Compliance
'R1' Residence – 69-71 Mountford Ave			
- Mechanical Plant	30 dBA	41 dBA	Yes
'R2' Residence – 60 Mountford Ave (front)			
- Mechanical Plant	37 dBA	41 dBA	Yes
'R2a' Residence – 60 Mountford Ave (rear)			
- Mechanical Plant	44 dBA	40 dBA	*No (+ 4 dB)
'R3' Residence – 10 Talbot Rd			
- Mechanical Plant	31 dBA	40 dBA	Yes
'R4' Residence – 66 Mountford Ave (front)			
- Mechanical Plant	49 dBA	41 dBA	*No (+ 8 dB)
'R4a' Residence – 66 Mountford Ave (rear)			
- Mechanical Plant	55 dBA	40 dBA	*No (+ 15 dB)

**Section 6.4 of this report recommends an assessment of the mechanical plant at the Construction Certificate stage.*

The predicted levels of noise from the proposed Guildford Mosque at the residential receptors, 'R1', 'R2' and 'R3', complies with the night time criteria in Section 4.4 of this report, and is therefore acceptable.

However, the predicted levels of noise from the proposed Guildford Mosque at the residential receptors, 'R2a', 'R4' and 'R4a', exceeds the night time criteria in Section 4.4 of this report, therefore noise controls as outlined in Section 6 of this report are necessary.



5.4.2 Predicted Guildford Mosque Noise Emissions – Sleep Disturbance

Tables 13 below show the predicted L_{AFmax} noise levels at the three most affected receptor location, 'R1', 'R2' and 'R4', for assessment against the sleep disturbance criterion.

Table 13 Predicted L_{AFmax} Noise Levels – Sleep Disturbance

Description	Predicted L_{AFmax} (dBA) Noise Level at Receptor Locations		
	R1	R2	R4
Man with a raised voice outside mosque	47	47	57
Car entering the car park	56	56	66
Acceptable Noise Limit	56	56	56
Complies	Yes	Yes	No (+ 10 dB)

The predicted external levels of noise from a man talking outside the mosque with a raised voice between 10 pm and 11 pm or 6 am and 7 am comply with the sleep disturbance criterion in Section 4.4 at receptor locations 'R1' and 'R2', and are therefore acceptable. However, predicted external levels of noise from a man talking outside the mosque with a raised voice between 10 pm and 11 pm or 6 am and 7 am exceeds with the sleep disturbance criterion in Section 4.4 at receptor location 'R4', therefore noise controls as outlined in Section 6 of this report are necessary.

In addition, the predicted external levels of noise from vehicles entering the car park between 10 pm and 11 pm or 6 am and 7 am exceeds the sleep disturbance criterion in Section 4.4 at receptor location 'R4', therefore noise controls as outlined in Section 6 of this report are necessary.



5.4.3 Predicted Guildford Mosque Noise Emissions – On-Road Traffic Noise

The external $L_{eq, 1 \text{ hour}}$ noise levels at the three most affected receptor location, 'R1', 'R2' and 'R4', from noise associated with on – road traffic (vehicles entering and exiting the car park) throughout the day and night are calculated to be as shown below in Table 14.

Table 14 Predicted $L_{eq, 1 \text{ hour}}$ Noise Levels – On – Road Traffic

Receptor Location	Predicted Noise Level (dBA)	Noise Criterion (dBA)	Compliance (Yes/No)
Day – 7 am to 10 pm			
R1 – 69-71 Mountford Ave	44	55	Yes
R2 – 60 Mountford Ave	35	55	Yes
R4 – 66 Mountford Ave	37	55	Yes
Night – 10 pm to 7 am			
R1 – 69-71 Mountford Ave	44	50	Yes
R2 – 60 Mountford Ave	35	50	Yes
R4 – 66 Mountford Ave	37	50	Yes

The predicted external levels of noise from on – road traffic are within the noise criteria in Section 4.4, and are therefore acceptable.



6.0 NOISE CONTROL RECOMMENDATIONS

6.1 Noise Management Plan

We recommend administrative noise controls be adopted by Guildford Mosque and be communicated to worshippers, as follows:

- Prayers are only to be performed in the area identified as the Male Prayer Hall and Female Prayer Hall on the architectural plans.
- An assigned volunteer will ensure that all visitors refrain from standing and chatting outside the place of public worship prior to the prayers and to disperse immediately after prayer sessions.
- Worshippers should be encouraged to be considerate of neighbours when arriving and leaving the Guildford Mosque and keep their voices to a minimum, at all times of the day and night and especially during the early morning and early night periods – 6 am to 7 am and 10 pm to 11 pm.
- All external windows and doors of the Male Prayer Hall and Female Prayer Hall should be closed during services and special events.
- All external windows and doors of the Male Prayer Hall and Female Prayer Hall may be opened during all other times to allow for the required passive ventilation.
- All external windows of the Lecture Hall should be closed during seminars or workshops with amplified speech.
- All external windows of the Lecture Hall may be opened during all other times to allow for the required passive ventilation.
- All external windows or doors to the Youth Room and Classrooms should be closed during noisy activities.
- There should be no congregation of worshippers in the external areas of the mosque at any time of the day or night. Worshippers should be encouraged to arrive / leave the site as promptly and quietly as possible.
- No speakers should be located outside the mosque building, this includes the Level 1 Colonnade, Level 2 Balcony and Level 3 Balcony.
- The air conditioning for Guildford Mosque should not be used between 10 pm and 7 am.



6.2 Driveway Sound Barrier Wall

In order to reduce the likelihood of sleep disturbance we recommend a noise barrier on the western side of the driveway. A noise barrier to effectively screen the first floor residential receiver at 66 Mountford Avenue, 'R4', would be required to block line of sight to the drive way from the first floor windows.

We have been advised by the client that it is not feasible to construct sound barrier walls, due to design restrictions. Therefore, an alternate recommendation is provided in Section 6.3.

6.3 Remedial Acoustic Treatment of Neighbouring Property

As mentioned in the previous Section, the client has advised that the construction of the proposed sound barrier wall is not feasible. Therefore, the sleep disturbance criterion shown in Section 4.4 is likely to be exceeded when vehicles enter or exit the basement level car park (external noise level) at 'R4'.

Where an exceedance is unavoidable outside the façade, remedial acoustic treatment may be offered to the neighbouring property to ensure the internal noise levels are reduced to a satisfactory level with windows closed during times of the expected exceedance.

We recommend all windows to habitable rooms (living areas and bedroom) with a line of sight to the proposed driveway have the existing glazing replaced with 6.5 mm thick hush glass with acoustic seals installed.

In order for the resident of 'R4' to keep their windows closed, a fresh air supply (A/C system) must also be installed.

We recommend the client engage in a dialogue with the residents of 'R4' to assess whether this is a viable solution prior to the development application being submitted.



6.4 Construction Certificate - Mechanical Plant

The selection of mechanical plant has not been finalised at this stage. For typical mechanical plant equipment with sound power levels not exceeding those listed in Table 7, it is reasonable and feasible to acoustically treat the associated ducting, plant area or equipment itself so that noise will not impact the neighbouring properties.

We recommend that the mechanical services engineers select mechanical plant equipment with the lowest sound power levels to reduce the amount of acoustic treatment necessary to achieve the noise criteria at nearby residential receivers.

We also recommend all mechanical plant be orientated away from the nearby residential receivers.

Once mechanical plant has been selected, a detailed acoustic assessment should be made, prior to the issue of a Construction Certificate.



7.0 NOISE IMPACT STATEMENT

Day Design Pty Ltd was engaged by Designiche to assess the environmental noise impact of a proposed place of public worship at 64 Mountford Avenue, Guildford, NSW.

Calculations show that, provided the recommendations in Section 6 of this report are implemented, the level of noise emitted by the activities associated with the proposed place of public worship at 64 Mountford Avenue, Guildford, NSW, will meet the noise level requirements of the *Environment Protection Authority* as detailed in Section 4 of this report at all residential receptors, and be considered acceptable.



Adam Shearer, BCT (Audio), MDesSc (Audio & Acoustics), MAAS

Senior Acoustical Consultant

for and on behalf of Day Design Pty Ltd

AAAC MEMBERSHIP

Day Design Pty Ltd is a member company of the Association of Australasian Acoustical Consultants, and the work herein reported has been performed in accordance with the terms of membership.

Attachments:

Appendix A – Proposed Site Plan

Appendix B – Proposed Mechanical Plant Locations

Appendix C – Operational Plan of Management

Appendix D1 & D2 – Ambient Noise Surveys

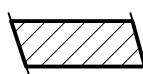
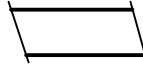
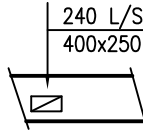
Appendix E – Noise Survey Instrumentation



AMENDMENTS					COPYRIGHT	NORTH/SCALE BAR	PROJECT TITLE	CLIENT	Designiche P/L 1/45 Crosby Street, Greystanes N.S.W. 2145 (T) 02 9631 7844 (M) 0438 538 118 (E)orhan@designiche.com.au	design niche Building Designers				
Issue	Date	Amendments	Drawn	Check all dimensions prior to commencement of works. Figured dimensions to be taken in preference to scaling. Confirm all dimensions on site. This plan is copyright of Designiche Pty Ltd and may not be used without written consent.	 1:100 1 2 3 4 5m 1:200 2 4 6 8 10m	GUILDFORD MOSQUE	ICMG	DATE		SCALE	DRAWN	PROJECT No.	DWG No.	
						PROJECT ADDRESS	DRAWING TITLE	20.05.18		1:100	O.K	18018	03 OF 13	
						Lot 18, DP 683. No 64 MOUNTFORD AVE. GUILDORD	SITE PLAN				ISSUE	SK03		

PROPOSED MOSQUE DEVELOPMENT
64 MOUNTFORD AVENUE, GUILDFORD NSW
MECHANICAL SERVICES

LEGEND

	DUCTWORK – 25 MM INTERNAL ACOUSTIC INSULATION
	UNINSULATED DUCTWORK
	HIGH LEVEL EXHAUST AIR GRILLE, 400x250 EGGRATE TYPE WITH O.B.D., 240 L/S
CEF–1	CARPARK EXHAUST FAN NO. 1 SEE SCHEDULE
CSF–1	CARPARK SUPPLY FAN NO. 1 SEE SCHEDULE
S–1	SILENCER NO. 1 SEE SCHEDULE
FC	FLEXIBLE CONNECTION
---	FLEXIBLE DUCTWORK
 HF–1	TOILET VENTILATOR EXHAUST FAN WITH NON RETURN DAMPER, 40 L/S MINIMUM.
	Y TYPE CONNECTION
u/c	UNDERCUT DOOR BY 15 MM
 200x200	200x200 DISCHARGE AIR LOUVRE WITH INSECT SCREEN
*	DENOTES SANITARY ROOM WITH NATURAL VENTILATION
	CARBON MONOXIDE MONITOR BETWEEN 1200 AND 1750 AFFL
	DOOR GRILLE 400x200
	ACCESS PANEL NEXT TO EXHAUST FANS AND FCU's
	RANGE HOOD WITH NRD
 GEF–1	GARBAGE EXHAUST AIR FAN NO 1, WITH FLEXIBLE CONNECTION; SEE SCHEDULE
 TEF–1	TOILET EXHAUST AIR FAN NO 1, WITH FLEXIBLE CONNECTION; SEE SCHEDULE
 FD	FIRE DAMPER
	SMOKE DETECTOR
 ET	200x200 EXHAUSR AIR GRILLE, EGGRATE TYPE WITH OBD, 50 L/S

MAINTAIN MINIMUM 2500 CLEAR HEIGHT UNDER DUCTWORK IN SHARED ZONE AND DISABLED CARSPACE

PROVIDE DOOR GRILLES FOR GAS CLIPBOARDS TO COMPLY WITH AS5601–2004. GRILLES SIZE TO BE CONFIRMED WITH HYDRAULIC ENGINEER

MAINTAIN 2200 MIN CLEARANCE UNDER DUCTWORK. CHECK AND CO–ORDINATE ON SITE PRIOR TO FABRICATION

CO–ORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE CEF–1 FAN AUTO/ON/OFF CONTROL SWITCH AT THE FIRE INDICATOR PANEL FOR FIRE BRIGADE

*IF OPENABLE WINDOW AREA IS LESS THAN 5% OF THE FLOOR AREA, THEN MECHANICAL VENTILATION WILL BE REQUIRED

ALL TOILET EXHAUST LOUVRES MUST BE LOCATED AT MIN. 1 METRE FROM NATURAL VENT. OPENING OF ADJACENT UNITS

NOTES

1. BLANK OFF ANY PART OF THE RISER BETWEEN THE DISCHARGE END OF THE SILENCER AND THE RISER WALL WITH 1.2 MM STEEL SHEET, SEAL ANY SMALL GAP WITH BOSTICK 2637 OR SIMILAR.
2. BLANK OFF THE PENETRATION AROUND WHERE THE INTAKE DUCT PASS THRU THE FLOOR INTO THE RISER SHAFT WITH 1.2 MM STEEL SHEET. SEAL ANY SMALL GAPS WITH BOSTICK 2637 OR SIMILAR.
3. INSTALL FLEXIBLE CONNECTIONS ON THE INTAKE SIDE OF THE FAN WHERE THE DUCT CONNECTS TO THE FAN.
4. SUPPORT THE FAN AND DISCHARGE SILENCERS ON 10 MM STATIC DEFLECTION RUBBER VIBRATION ISOLATION MOUNTS.
5. COUNCIL APPROVAL TO BE OBTAINED PRIOR TO CONSTRUCTION AND INSTALLATION.
6. EXHAUST FAN CEF–1 TO BE OPERATED VIA A VARIABLE SPEED DRIVE CONTROLLED BY CO MONITOR.
7. ALL DIMENSIONS TO BE VERIFIED ON SITE PRIOR TO FABRICATION, TO CO–ORDINATE WITH STRUCTURE AND BUILDING WORKS.
8. ALL DUCTWORK DIMENSIONS ARE CLEAR INTERNAL.
9. ALL SANITARY ROOMS EXHAUST FANS TO BE OPERATED VIA THEIR INDIVIDUAL ON/OFF SWITCH.
10. ACOUSTIC ASSESSMENT BY SPECIALIZED ACOUSTIC ENGINEER AS REQUIRED.
11. SET UP AND SET DOWN BASEMENT EXHAUST DUCTWORK TO RUN HARD UNDER SLAB AS REQUIRED.

CAR PARK VENTILATION SYSTEM

General

Mechanical car park ventilation systems shall comply with AS1668.1–2015 Clause 4.6 and Clauses 5.5.2 to 5.5.6

Fans that are not required to be shut down shall be provided with electrical supply from a clearly labelled dedicated main switch, separate from those used to control the remainder of the electrical installation.

NOTE: Car park ventilation fans are not required to be provided with fire–resistant cabling.

Exhaust fan blades shall be metal.

NOTE: Carpark ventilation systems are intended to be operable in the event of a fire but are not considered to be smoke control systems.

Override control

To enable manual control by attending emergency services personnel, fans that are not required to shut down on initiation of fire mode in the car park shall be provided with a control switch at the designated building entry point.

NOTE: Signage should be located at the car park entry indicating the location of the control switches.

SCHEDULE OF CARPARK EXHAUST FAN

FAN NO.	MIN. AIR QUANTITY (L/S)	STATIC PRESS (Pa)	MAX. NOISE LEVEL (dBA) @3M	MAKE & MODEL	POWER	COMMENTS
CEF–1*	4500	250	63	FANTECH, AP0714BA7/30	415/3/50; 3.3 kW	AP Series – Direct Drive Adjustable Pitch Axial Fans

*CEF–1 MUST BE SUITABLE FOR VARIABLE SPEED DRIVE. INSTALL ONE CO MONITOR & VARIABLE SPEED DRIVE

SCHEDULE OF CARPARK SUPPLY AIR FAN

FAN NO.	MIN. AIR QUANTITY (L/S)	STATIC PRESS (Pa)	MAX. NOISE LEVEL (dBA) @3M	MAKE & MODEL	POWER	COMMENTS
CSF–1*	1600	225	59	FANTECH, AP0564LP12/17	415/3/50; 1.21 kW	AP Series – Direct Drive Adjustable Pitch Axial Fans

*CSF–1 MUST BE SUITABLE FOR VARIABLE SPEED DRIVE. INSTALL ONE CO MONITOR & VARIABLE SPEED DRIVE

SCHEDULE OF SILENCER

SILENCER NO.	LOCATION	NO. OFF	AIR QTY (L/S)	DIMENSIONS	STATIC INSERTION LOSS, dB							
					63	125	250	500	1K	2K	4K	8K
S–1	CEF–1	2	4500	900 LONG x 710 DIA	3	4	8	14	14	9	7	6
S–2	CSF–1	2	1600	600 LONG x 560 DIA	2	4	6	10	14	10	8	7

SCHEDULE OF GARBAGE EXHAUST AIR FANS

FAN NO.	MIN. AIR QUANTITY (L/S)	STATIC PRESS (Pa)	MAX. NOISE LEVEL (dBA) @3M	MAKE & MODEL	POWER	COMMENTS
GEF–1	60	150	43	FANTECH, RIL–150SW	240/1/50; 0.05 kW	PROVENT IN–LINE FAN

SCHEDULE OF TOILET EXHAUST AIR FANS

FAN NO.	MIN. AIR QUANTITY (L/S)	STATIC PRESS (Pa)	MAX. NOISE LEVEL (dBA) @3M	MAKE & MODEL	POWER	COMMENTS
HF–1	40	125	37	FANTECH, RESPF150 + RESPG150SQWH	240/1/50; 0.06 kW	CEILING HEADER FAN WITH NON RETURN DAMPER
TEF–1	400	150	46	FANTECH, GUE314V	240/1/50; 0.22 kW	Gamma Ultra Series – Vertical Discharge Mixed–Flow Fans
TEF–2	250	175	46	FANTECH, PUE314ER	240/1/50; 0.22 kW	PowerLine Ultra Series – Mixed–Flow Fans
TEF–3	240	175	46	FANTECH, PUE314ER	240/1/50; 0.22 kW	PowerLine Ultra Series – Mixed–Flow Fans
TEF–4	70	150	43	FANTECH, RIL–150SW	240/1/50; 0.05 kW	PROVENT IN–LINE FAN
TEF–5	140	150	44	FANTECH, RIL–200SW	240/1/50; 0.10 kW	PROVENT IN–LINE FAN

SCHEDULE OF CARPARK EXHAUST FAN

FAN NO.	MIN. AIR QUANTITY (L/S)	STATIC PRESS (Pa)	MAX. NOISE LEVEL (dBA) @3M	MAKE & MODEL	POWER	COMMENTS
KEF–1*	1,300	250	52	FANTECH, PUD454DD	415/3/50; 1.1 kW	PowerLine Ultra Series – Mixed–Flow Fans

*KEF–1 MUST BE SUITABLE FOR VARIABLE SPEED DRIVE. PROVIDE VARIABLE SPEED DRIVE

			NOTES		CLIENT	ARCHITECT		PROPOSED MOSQUE DEVELOPMENT 64 MOUNTFORD AVENUE, GUILDFORD	JOB NO 1903/08
						DESIGNICHE P/L 1/45 CROSBY STREET, GREYSTANES NSW M: 0438 538 118 T: 9631 7844 E: orhan@designiche.com.au			NUMBER IN SET 7
									SHEET No. M1
									REV 0
									DATE 20/03/2019
									CHECKED A FARAH
									SCALES AS SHOWN @A1
									DRAWN S.P
Rev.	Date	Description							

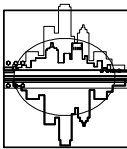
DRAFT ONLY
FOR CLIENTS APPROVAL
Copyright © VISCONA PTY LTD

Viscona PTY. LTD.

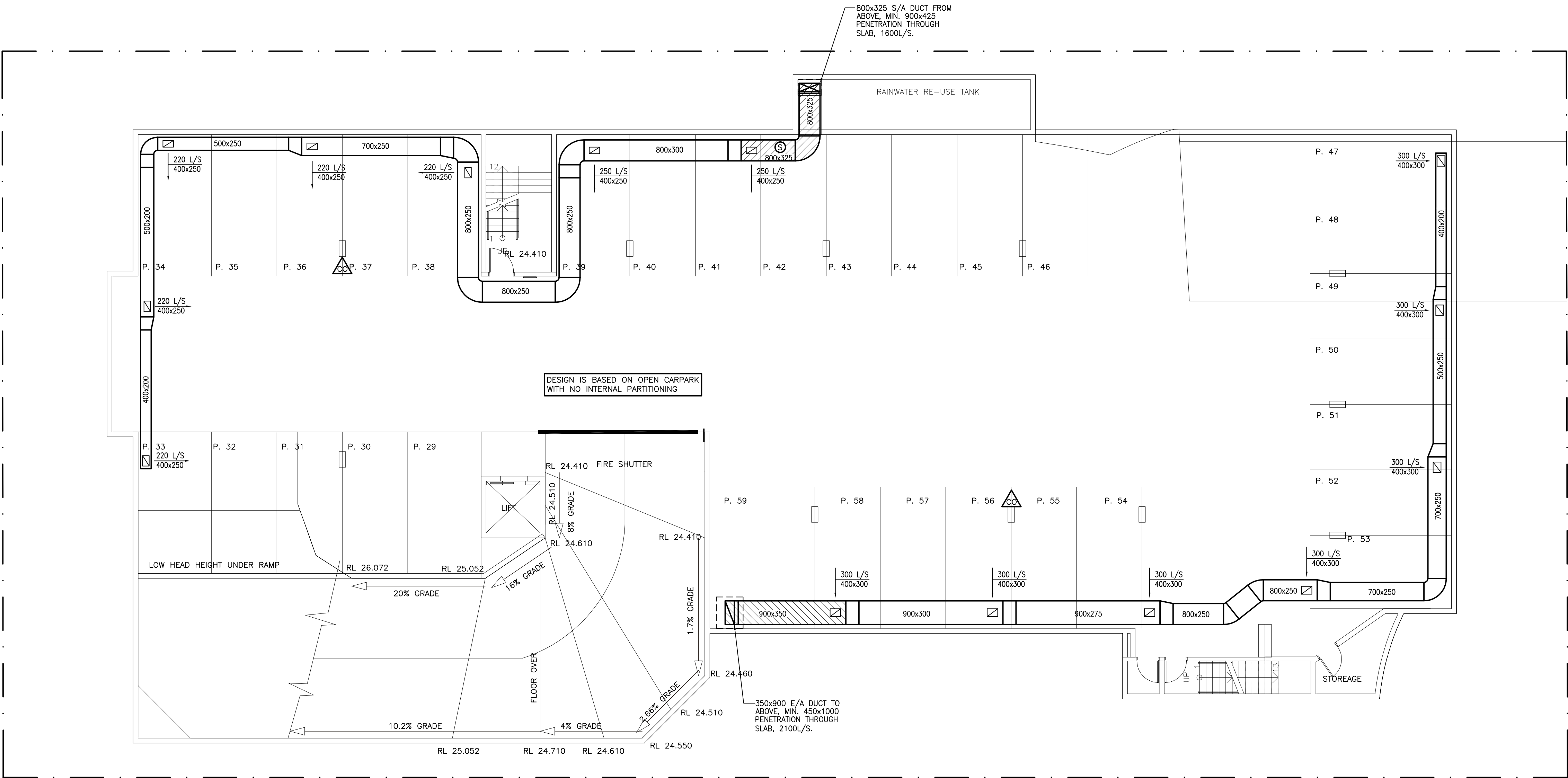
BUILDING SERVICES ENGINEERS
ACN 052 848 405

23–25 KARELA CRESCENT
GREENACRE NSW 2190

TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404



TITLE SHEET, LEGEND, NOTES
AND SCHEDULES
MECHANICAL SERVICES



MOUNTFORD AVENUE

LOWER BASEMENT PLAN
SCALE 1:100

Rev.	Date	Description

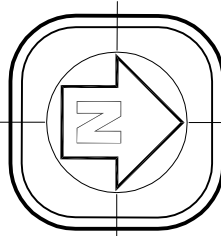
NOTES

DRAFT ONLY
FOR CLIENTS APPROVAL
Copyright © VISCONA PTY LTD

CLIENT

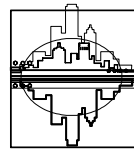
ARCHITECT

DESIGNICHE P/L
1/45 CROSBY STREET, GREYSTANES NSW
M: 0438 538 118
T: 9631 7844
E: orhan@designiche.com.au



Viscona PTY. LTD.

BUILDING SERVICES ENGINEERS
ACN 052 848 405



23-25 KAREELA CRESCENT
GREENACRE NSW 2190
TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404

PROPOSED MOSQUE DEVELOPMENT
64 MOUNTFORD AVENUE, GUILDFORD

LOWER BASEMENT PLAN
MECHANICAL SERVICES

JOB NO 1903/08

NUMBER
IN SET 7

SHEET No. M2

REV 0

SCALES
AS SHOWN
@A1

DATE 20/03/2019
CHECKED A FARAH

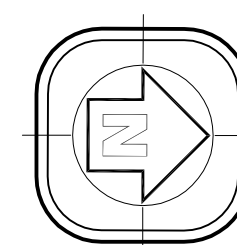
DRAWN S.P



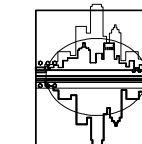
Rev.	Date	Description

DRAFT ONLY
FOR CLIENTS APPROVAL
Copyright © VISCONA PTY LTD

DESIGNICHE P/L
1/45 CROSBY STREET, GREYSTANES NSW
M: 0438 538 118
T: 9631 7844
E: orhan@designiche.com.au



23-25 KAREELA CRESCENT
GREENACRE NSW 2190

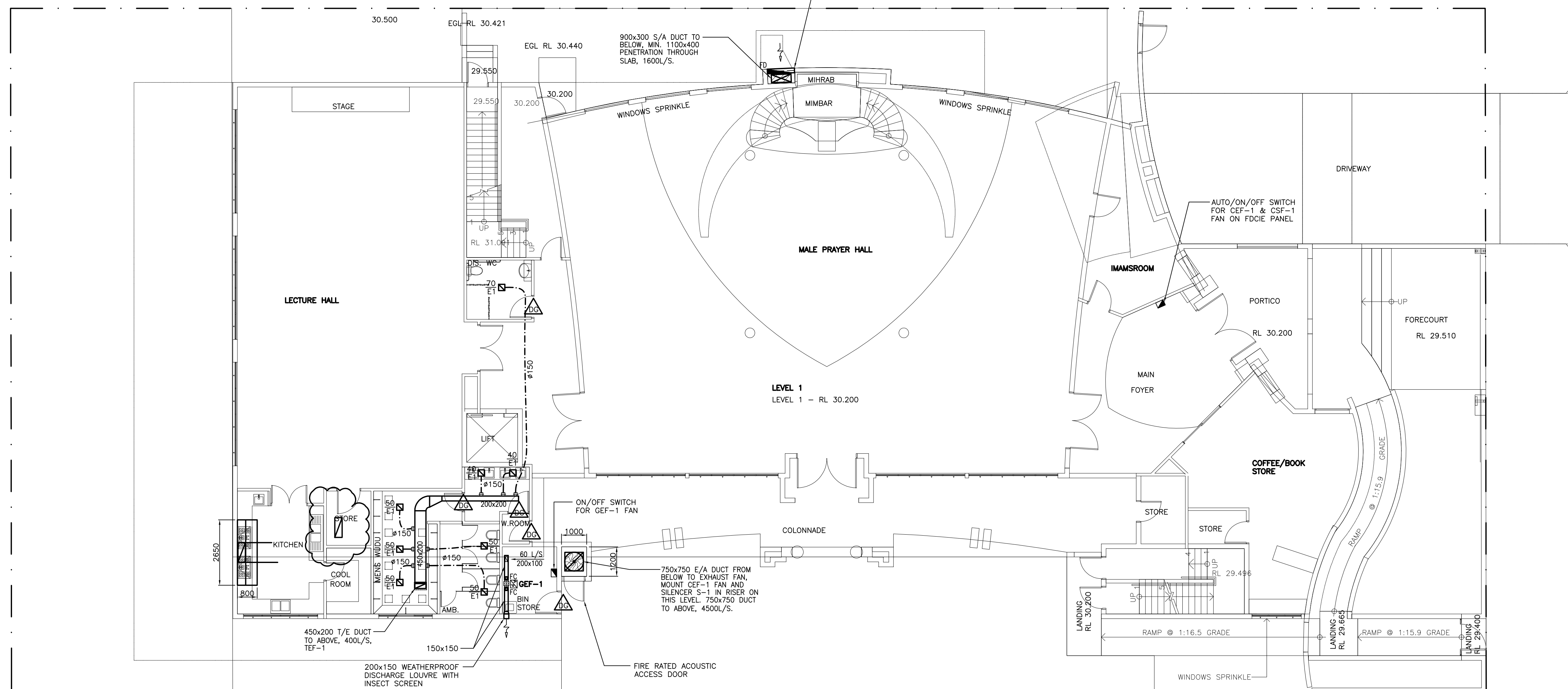


TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404

UPPER BASEMENT PLAN MECHANICAL SERVICES

DRAWN	S.P
-------	-----

SCALE 1:100



SCALE 1:100

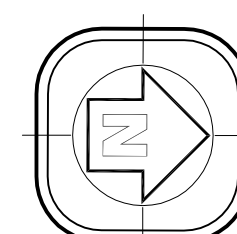
[illegible]

NOTES

CLIENT	
--------	--

ARCHITECT

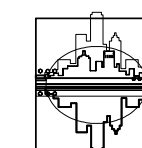
DESIGNICHE P/L
1/45 CROSBY STREET, GREYSTANES NSW
M: 0438 538 118
T: 9631 7844
E: orhan@designiche.com.au



Viscona PTY. LTD.

BUILDING SERVICES ENGINEERS
ACN 052 848 405

23-25 KAREELA CRESCENT
GREENACRE NSW 2190



TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404

PROPOSED MOSQUE DEVELOPMENT 64 MOUNTFORD AVENUE, GUILDFORD

LEVEL 1 PLAN
MECHANICAL SERVICES

JOB NO	1903/08
--------	---------

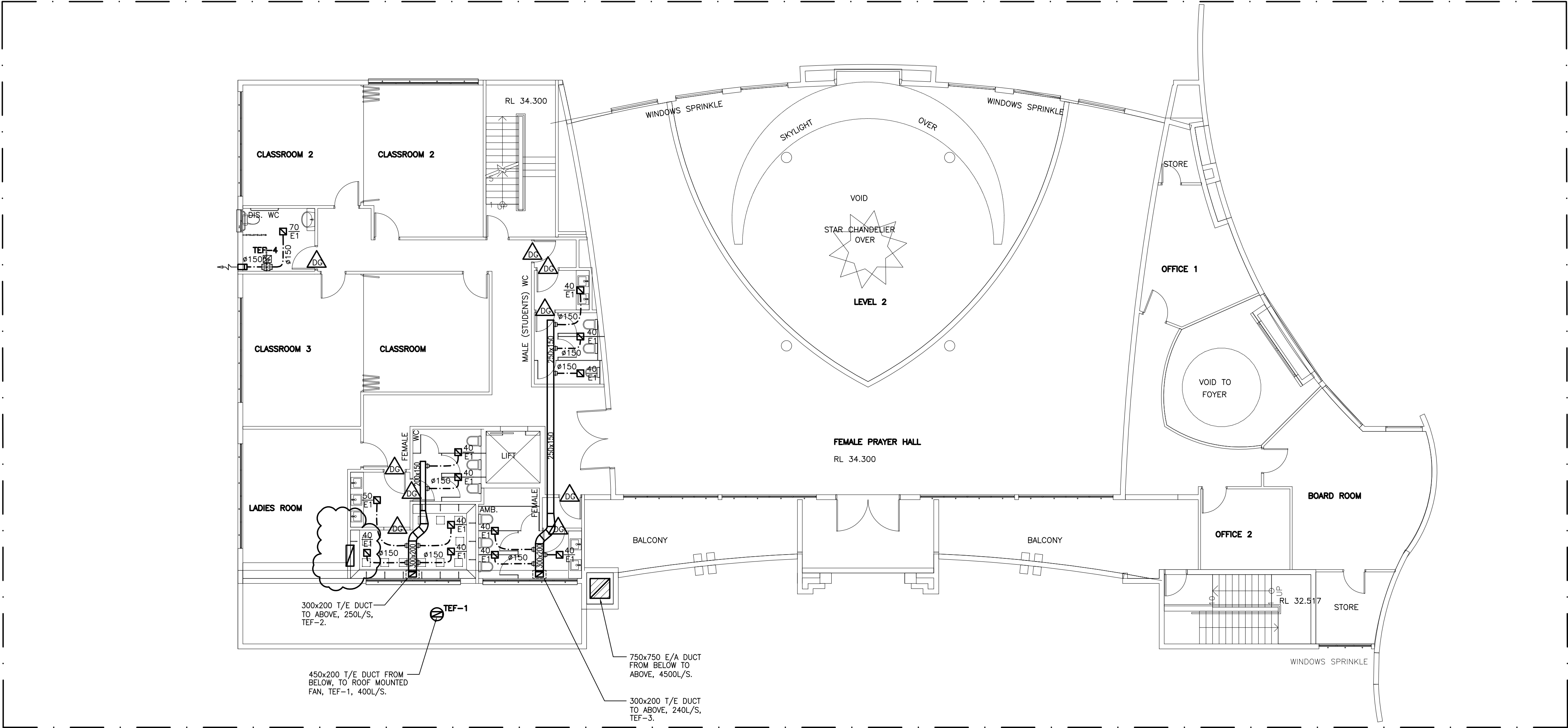
JOB NO	
NUMBER IN SET	7

SHEET No.	REV
M4	0

SCALES	DATE	20/03/2019
--------	------	------------

CHECKED A FARAH

DRAWN	S.P
-------	-----



LEVEL 2 PLAN
SCALE 1:100

Rev.	Date	Description

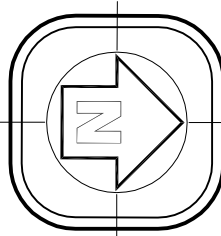
NOTES

DRAFT ONLY
FOR CLIENTS APPROVAL
Copyright © VISCONA PTY LTD

CLIENT

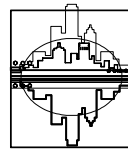
ARCHITECT

DESIGNICHE P/L
1/45 CROSBY STREET, GREYSTANES NSW
M: 0438 538 118
T: 9631 7844
E: orhan@designiche.com.au



Viscona PTY. LTD.

BUILDING SERVICES ENGINEERS
ACN 052 848 405



23-25 KAREELA CRESCENT
GREENACRE NSW 2190

TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404

PROPOSED MOSQUE DEVELOPMENT
64 MOUNTFORD AVENUE, GUILDFORD

LEVEL 2 PLAN
MECHANICAL SERVICES

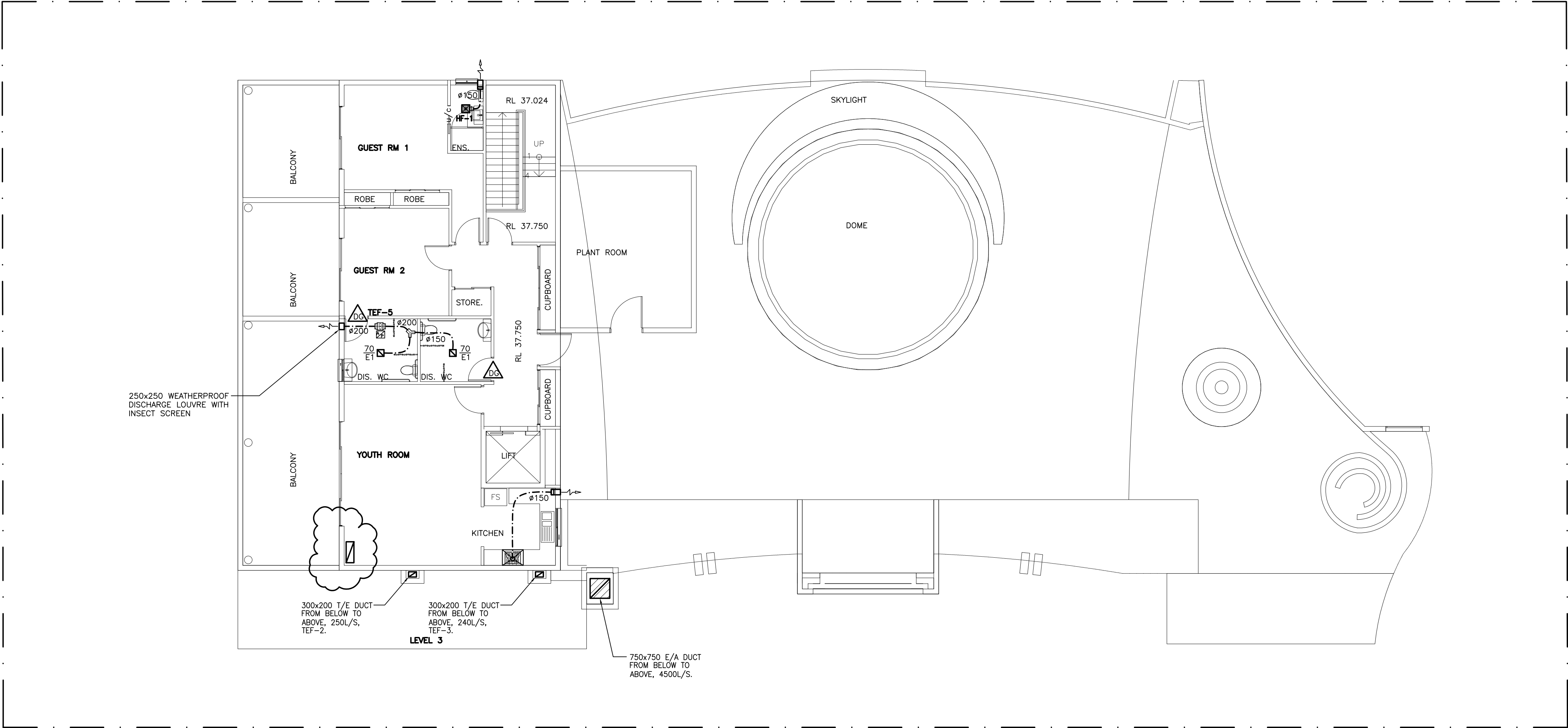
JOB NO 1903/08

NUMBER IN SET	SHEET No.	REV
7	M5	0

SCALES	DATE
AS SHOWN @A1	20/03/2019

CHECKED	REV
A FARAH	

DRAWN S.P



LEVEL 3 PLAN
SCALE 1:100

Rev.	Date	Description

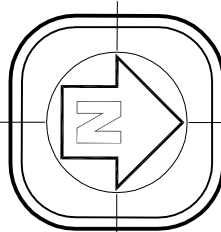
NOTES

DRAFT ONLY
FOR CLIENTS APPROVAL
Copyright © VISCONA PTY LTD

CLIENT

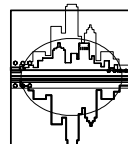
ARCHITECT

DESIGNICHE P/L
1/45 CROSBY STREET, GREYSTANES NSW
M: 0438 538 118
T: 9631 7844
E: orhan@designiche.com.au



Viscona PTY. LTD.

BUILDING SERVICES ENGINEERS
ACN 052 848 405



23-25 KAREELA CRESCENT
GREENACRE NSW 2190

TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404

PROPOSED MOSQUE DEVELOPMENT
64 MOUNTFORD AVENUE, GUILDFORD

LEVEL 3 PLAN
MECHANICAL SERVICES

JOB NO 1903/08

NUMBER
IN SET 7

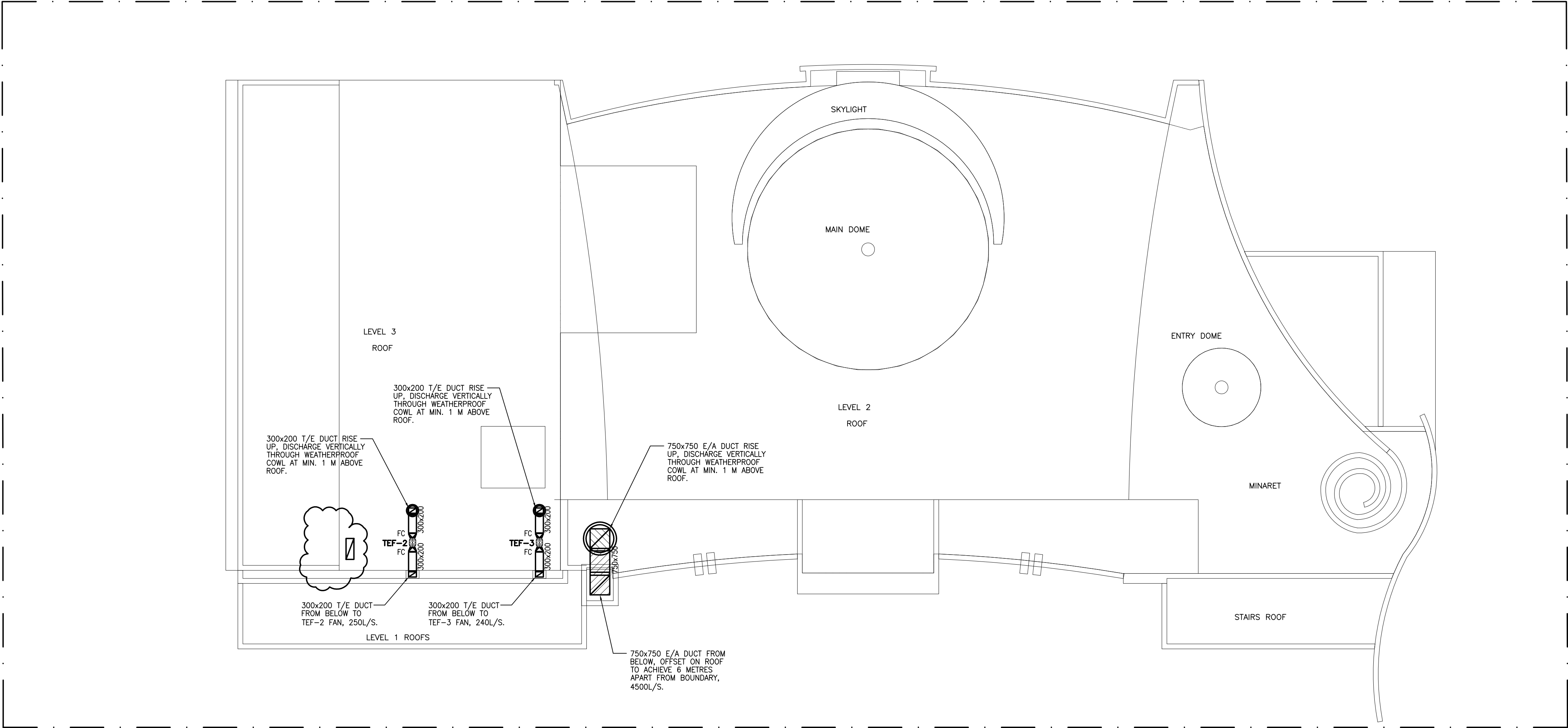
SHEET No.
M6

REV
0

SCALES
AS SHOWN
@A1

DATE 20/03/2019
CHECKED A FARAH

DRAWN S.P



ROOF PLAN
SCALE 1:100

Rev.	Date	Description

NOTES

DRAFT ONLY

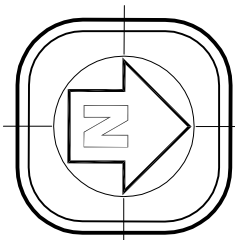
FOR CLIENTS APPROVAL

Copyright © VISCONA PTY LTD

CLIENT

ARCHITECT

DESIGNICHE P/L
1/45 CROSBY STREET, GREYSTANES NSW
M: 0438 538 118
T: 9631 7844
E: orhan@designiche.com.au



Viscona PTY. LTD.

BUILDING SERVICES ENGINEERS
ACN 052 848 405

TEL 9793 9291
FAX 9796 4560
EMAIL VISCONA@BIGPOND.NET.AU
MOBILE 0411 38 0404

PROPOSED MOSQUE DEVELOPMENT
64 MOUNTFORD AVENUE, GUILDFORD

ROOF PLAN
MECHANICAL SERVICES

JOB NO 1903/08	SHEET No M7	REV 0
NUMBER IN SET 7	DATE 20/03/2019	CHECKED A FARAH
SCALES AS SHOWN @A1	DRAWN S.P	

OPERATIONAL PLAN OF MANAGEMENT

64 Mountford Ave, Guildford NSW 2161
Place of Public Worship - June 2019

Prepared for
Islamic Community Milli Gorus / Sydney

Contents

1.0 Introduction	2
2.0 Background Information	2
2.1 Islamic Community Milli Gorus Sydney Inc. (ICMG Sydney)	2
3.0 Administration	3
3.1 Association Committee	3
3.1 Staff	3
4.0 Prayers and Events	3
4.1 Daily Prayers	3
4.2 Events	4
4.3 Organisation of cultural tours (ancillary use)	4
4.4 Social support services (ancillary use)	4
4.5 Women's social gatherings (ancillary use but linked to the dominant use)	4
4.6 Bookshop and café (ancillary use)	5
4.7 Seminars and workshops (ancillary use)	5
4.8 Youth Activities (ancillary use)	5
4.9 Saturday community language school (ancillary use)	5
4.10 Guest Rooms (ancillary use)	5
5.0 Noise Control	6
6.0 Traffic Management	6
7.0 Waste Management	7
8.0 Complaints Handling	7
8.1 Policy	7
8.2 Contact	7
8.3 Complaint Handling Procedure	8
8.4 Community Engagement	8

1.0 Introduction

This plan of management has been prepared for the operation and management of 'Place of Worship' with associated community centre activities at 64 Mountford Avenue, Guildford NSW 2161, legally described as **Lot 18, DP 683** within the local government of Cumberland Council.

We submit that the dominant use of the site is a place of worship and is in use during prayer times on a daily basis. There are a number of ancillary uses that will also occur on site including;

- Administration office use;
- Social support services;
- Women's arts and craft workshops;
- Seminars and workshops with guest speakers;
- A cafe/bookstore;
- Youth activities;
- Saturday community language school.

2.0 Background Information

2.1 Islamic Community Milli Gorus Sydney Inc. (ICMG Sydney)

The subject site is currently occupied by ICMG Sydney. The key mission statement of the ICMG is to achieve the following;

To promote and advance the cultural, social, economic and religious welfare of all the Muslim communities in NSW and, in particular, to promote and advance mutual co-operation, mutual understanding and harmony.

ICMG Sydney is a Sub-branch of ICMG Australia and was known as NSW Islamic Social Cultural Association before Feb 2016 and NSWISCA was established in 1992.

Today ICMG Australia (Headquarters) operates as one of the largest Islamic organisations in Australia and caters for every aspect of a Muslim's religious, social and cultural life by opening mosques, schools and organising social and cultural events.

3.0 Administration

3.1 Association Committee

The proposed mosque will be managed by ICMG Sydney Inc (Board). Regular Association committee meetings will occur on site; these are likely to include predominantly during business hours with some evening meetings scheduled. The evening meetings are likely to attract on average **8-10 people with a maximum of 15 people**. These meetings will be held in the meeting/board room close to the street side of the building on first level. The evening meetings will be finished by **9 pm**.

3.1 Staff

The board will appoint a property manager to coordinate the operations. There will be a number of staffs to manage the operations of the mosque and the related facilities and will include; a property manager, 1-2 sales assistant/librarian for the bookshop/café, resulting in a total of **4 - 5 casual staff including Imam**. The general hours of operation will be regular business hours of approximately **9 am – 6 pm Monday to Friday and 9 am to 4 pm Saturday**.

The Imam (prayer leader at the Mosque) will reside at the premises 15 minutes before and after the prayer times for management and security purposes.

4.0 Prayers and Events

4.1 Daily Prayers

The proposed use of the site will be a place of worship under the name of Guildford Mosque. The Islam religion services focus on prayer and the hours of worship and dedication respond to the cycle of the sun. Accordingly, the hours of prayer vary throughout the year, based on the hours that the sun rises and sets in summer and winter. As result, slight variation of prayer hours will occur as indicated below.

There are five (5) prayer services per day, each of which operates for a maximum of **15 minutes** and at approximately the following starting times:

- Sunrise(dawn) prayer between 6-7 am - **30-40 people**
- Lunch time prayer between 12-1 pm - **40-50 people**
- Afternoon prayer between 3-4:30 pm - **20-30 people**
- Sunset prayer between 5-7 pm - **30-40 people**
- Evening prayer between 7-10 pm - **60-70 people**

4.2 Events

Also, like all religions there are a number of cultural events during the religious (Lunar) calendar. As per the Muslim religion there are weekly and yearly events that occur. These include the following events and outline the expected numbers and hours of operation.

- Weekly Friday prayers for **30-40 min duration** between the hours of **12.30 pm-2 pm** with a maximum of **450 people** in attendance.
- Ramadan (**30 days per calendar year**) prayers **40 min duration** between **7 pm – 9 pm** daily with a maximum of **250 people** in attendance.
- First Eid Prayers (Ramadan Eid Prayers – following day after the end of Ramadan) prayers **30 min duration** between **6 am – 8 am** maximum of **300 people**
- Second Eid Prayers (Eid of Adha Prayers – 70 days after the first Eid Prayers) prayers **30 min duration** between **6 am – 8 am** maximum of **300 people**

Note: Please bear in mind that during prayer times, none of the other facilities will be used or occupied, as all persons are required to be and will be in the prayer hall once the prayer has commenced.

The high number of attendees will not remain at the mosque for extended period of time. The site will only be of use at its peak, once a week (Friday Middy) and this occurs where most residents will be at work.

4.3 Organisation of cultural tours (ancillary use)

As part of the Association's administration tasks it arranges cultural tours and excursions for its members, family and guests. These will be for the individual or groups and include Hajj (Pilgrimage) and Umrah tours once a year each. This will cause only registration and some paperwork by an officer in the office during business hours and there will not be any public activity on the site.

4.4 Social support services (ancillary use)

The Association provides social support to its members and this will result in staff meeting with community members on a as needs one to one basis. This service also requires the individual office room for consultations.

4.5 Women's social gatherings (ancillary use but linked to the dominant use)

A number of social gatherings for women will be held at the premises; these are likely to occur during **business hours 9 am – 6 pm** and estimated will attract **10 – 15 people each time**.

4.6 Bookshop and café (ancillary use)

The site includes a small bookshop and cafe located at the front of the site, this will generally be open from **Monday to Friday 9 am to 6 pm** and **Saturday 9 am to 4 pm** and will be staffed by 1-2 staff. Café will serve mostly light refreshments and coffee to the community. There will not be any cooking facility. The manager will be responsible for the operation of this facility on behalf of the association.

4.7 Seminars and workshops (ancillary use)

The venue will provide a lecture hall, these will be used to hold seminars and workshops few times a year (quarterly) including guest speakers. The lecture hall can accommodate 190 people respectively. Therefore, a **maximum of a total of 190 people** could be located on the site at anyone given time. It is envisaged that **average attendance** in the lecture hall **150 people**. Some of these seminars and workshops will occur during business hours and others will occur during evening hours. Again, these will be concluded by **9 pm Monday to Thursday** and **11 pm on Friday and Saturday** nights.

4.8 Youth Activities (ancillary use)

There are youth gatherings every Saturday evenings between **6 pm-9 pm** to provide speeches about social, moral and spiritual life. The gatherings occur in the main prayer hall and with attendance of **maximum 40 people**.

4.9 Saturday community language school (ancillary use)

There will be classrooms in the new building that will cater to the current 'Saturday community language school'. School is currently registered under NSW Department of Education operating as Community Language School. School will be operated by **1 manager** and **4 teachers**. Therefore, a **maximum of a total of 80 students** could be located on the site at anyone given time. It is envisaged that **average attendance** in all the classrooms is **60 students**. The school duration will be between **9 am-2 pm Saturdays** during NSW School terms.

4.10 Guest Rooms (ancillary use)

The site will have two separate guest rooms each with their own en-suite. These guest rooms will be used to accommodate our interstate and international guest visitors, such as spokespeople and Imams for their short stay. Apart from accommodating our short stay guests, there will be no long-term residential living.

5.0 Noise Control

The main sources of noise from the building are:

- Vehicles arriving and departing the site;
- Attendees talking and congregating whilst arriving and departing in the on-ground parking area; and
- Indoor activities.

It is important to note, that the prayers are conducted in silence with the Friday prayers usually followed by a short speech from the Imam.

Management and the Imam will encourage patrons to enter and leave the site in an orderly fashion and the importance of minimising outdoor noise, particularly at the sunrise prayer. This measure will be reinforced through the installation of signs at both the entrance and exit points at the site reminding attendees to minimise noise at all times. Additionally, no speakers, musical instrument or electrically amplified sound equipment will be used outdoors at the site.

After prayer services, no gathering or crowding will be allowed in the nearby public spaces to eliminate any noise and amenity impact by attendees. Attendees who smoke tobacco is possibly one reason for attendees to congregate and within the immediate vicinity. To minimize this, additional signage is to be erected at the facility entry and exit points requesting persons not to smoke on the footpaths outside the facility.

The main door face to the property at 60 Mountford Avenue will be closed during the sunrise (dawn) prayer times and the foyer entrance door face to the Guildford Road and the door next to the lifts will be allocated for access to the main prayer hall to eliminate the noise any disturbance to the neighboring properties. Also, internal speakers will not be in use during the Sunrise prayers.

We also attached the 'Environmental Noise Impact Assessment' prepared by the consultant to this document as reference.

6.0 Traffic Management

There is a total of fifty-nine (59) vehicle parking places including two (2) disabled spaces, located over a double basement design. There are also two bicycle spaces contained within the upper basement level. All vehicles will enter and exit the site in a forward direction.

The Mosque and its community facilities are aimed to serve Muslims who pre-dominantly live or work within walking distance of the site. Pedestrian can directly access the site via the proposed pedestrian gate at Guildford Road. The Imam will encourage attendees to use public transport, walking, bicycle or carpooling to the site so that overall traffic and parking impacts to the site is as minimal as possible.

For the Friday prayers there will be two (2) staff/traffic marshals present 20 minutes prior and 20 minutes after the prayer time to manage the traffic flow and assist in parking cars on site correctly.

Once the carpark is full, the traffic marshal will close the entry points and manage the area around the mosque to ensure all on street parking is legal and not hindering the neighboring properties.

Note: All traffic marshals must complete the relevant traffic control course, wear high-vis clothing and carry a wand before commencement of traffic marshalling. After completion of the Friday service, the traffic marshals will direct all cars to leave the site via the exit.

We also attached the 'Traffic Management Report' prepared by the consultant to this document as reference.

7.0 Waste Management

Garbage will be collected by council and placed on street and retrieved by mosque manager to ensure efficient waste collection and minimal impact on neighboring sites. The waste bins will be removed from the waste room by staff member and returned to the waste room by staff members, once the truck has removed the waste.

8.0 Complaints Handling

8.1 Policy

ICMG Guildford Mosque recognises that people are free to raise complaints and have them resolved in a manner that is fair, sensitive and prompt. ICMG Guildford Mosque recognises complaints as a feedback mechanism to improve the organisation's practices, policies and procedures.

In particular, ICMG Guildford Mosque:

- Will encourage complaints to be raised at an early stage.
- Will handle complaints promptly, and advise complainants of appropriate timeframes at all stages of the process.
- Will treat complaints seriously and sensitively.
- Complaints will be handled with procedural fairness.

All information will be treated with due confidentiality.

8.2 Contact

The Manager will have the overall responsibility of all complaints handling system, this role will be set once the DA has been approved. The neighbors will be notified in writing of the name and contact details of the complaint handling personnel.

8.3 Complaint Handling Procedure

The complaints handling process will be as follows:

- Once a complaint is raised, ICMG Guildford Mosque will request the complainant put it in writing using a complaint standard template. This will be available on the notice board and website.
- The Manager will review and lodge their complaint on a register which will be circulated immediately to the Complaint Manager in the Committee and staff. The complaint register will be available in the administration area.
- The Manager will further investigate the nature of the complaint and with the Complaint Manager in the Committee and Staff find a reasonable solution.
- The complaint and its solution will be presented to the committee for final approval.
- Once the committee approves the complaint and solution the outcomes are promptly implemented.
- The Complainant will be contact to advise them of the outcome.
- Once complaints are resolved, all complaint action forms will be stored away.
- At no point management are allowed to release personal details.

Both the Complaints Register and Complaint Standard Template Form are included in this document for review.

8.4 Community Engagement

The Mosque is responsible for establishing contact and maintaining a relationship with the neighbors of the Place of Worship within a 100m radius by undertaking the following tasks:

- 4 weeks prior to the first service at the Mosque undertake a letterbox drop all mail boxes within 500m radius of the Place of Worship advising of the activity and nominating all methods to contact the Mosque should any matter arise that warrants addressing.
- In maintaining a relationship with the neighbors, the letterbox drop should include at least two after hours contact numbers.
- Provide a clear sign at the front of the property that is visible to the public identifying the name and methods of contacting the Mosque in the event that there is a matter that warrants addressing.

ICMG Guildford Mosque

[illegible]

7



Complaint Action Form

ICMG Guildford Mosque

Name: _____

Date: _____

Email: _____

Phone No: _____

Complaint description:

Location: _____

Date of event/incident: _____

Time of event/incident: _____

Signature: _____

Note: This form will be treated with complete privacy and no personal details shall be released.

Office Use Only

Complaint No: _____

*Urgency: _____

Received by: _____

Assigned to: _____

Initial assessment:

Action required:

Notification to Complainant: Yes / No

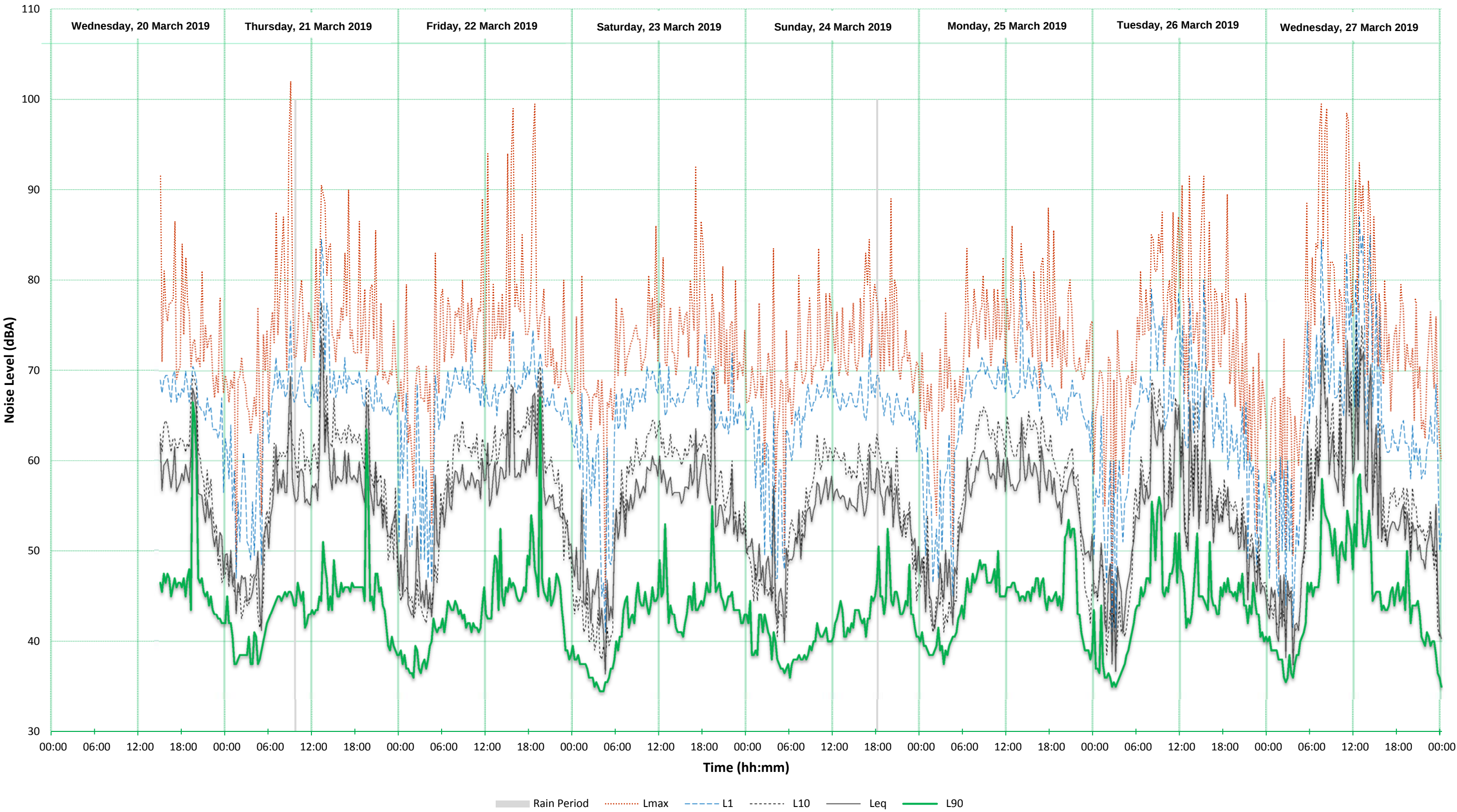
Completion/Action Date: _____

Signature: _____

* Urgency level: Very High, High, Medium, Low, Noted

AMBIENT NOISE SURVEY

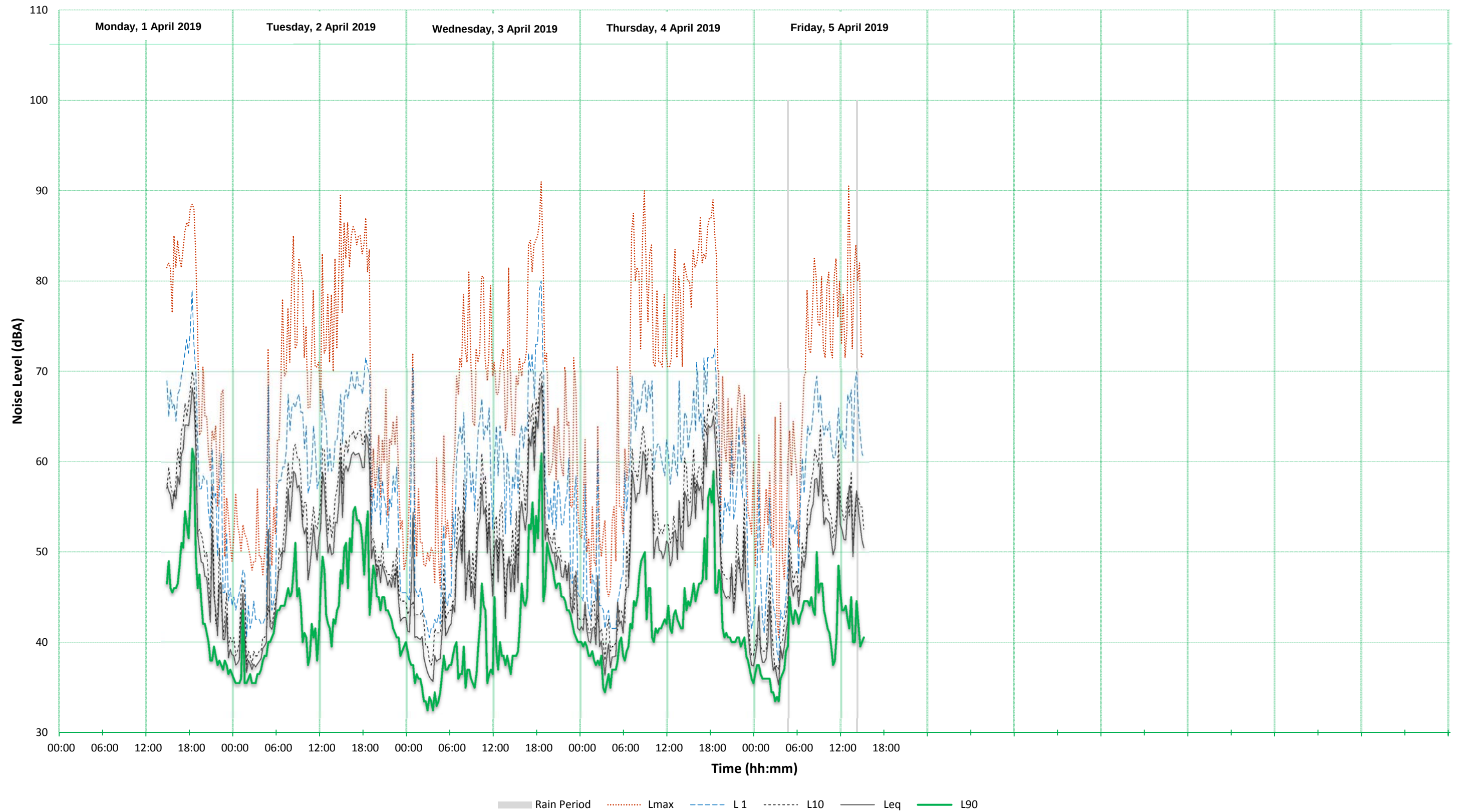
Located at 69 Mountford Ave, Guildford, NSW



AMBIENT NOISE SURVEY

6730-1
Appendix D

Located at 11 Bury Rd, Guildford, NSW



Noise level measurements and analysis in this report were made with instrumentation as follows:

Description	Model No.	Serial No.
Infobyte Noise Logger (Type 2)	iM4	107
Condenser Microphone 0.5" diameter	MK 250	107
Infobyte Noise Logger (Type 2)	iM4	112
Condenser Microphone 0.5" diameter	MK 250	112

An environmental noise logger is used to continuously monitor ambient noise levels and provide information on the statistical distribution of noise during an extended period of time. The Infobyte Noise Monitor iM4 is a Type 2 precision environmental noise monitor meeting all the applicable requirements of AS1259 for an integrating-averaging sound level meter.

All instrument systems had been laboratory calibrated using instrumentation traceable to Australian National Standards and certified within the last two years thus conforming to Australian Standards. The measurement system was also field calibrated prior to and after noise surveys. Calibration drift was found to be less than 1 dB during unattended measurements. No adjustments for instrument drift during the measurement period were warranted.

