



PROPOSED PLACE OF WORSHIP

5 MANGANO PLACE, WANNEROO

ACOUSTIC ASSESSMENT
NOISE MANAGEMENT PLAN

FEBRUARY 2023

OUR REFERENCE: 30592-2-22325



DOCUMENT CONTROL PAGE

ACOUSTIC ASSESSMENT
5 MANGANO PLACE, WANNEROO

Job No: 22325

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FOR

DRUKPA AUSTRALIA INCORPORATED

DOCUMENT INFORMATION

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1. INTRODUCTION

Herring Storer Acoustics were commissioned by the Altus Planning on behalf of Drukpa Australia Inc. to undertake an acoustic assessment of noise emissions associated with the development of 5 Mangano Place, Wanneroo.

This report assesses noise emissions from the premises with regards to compliance with the requirements of the *Environmental Protection (Noise) Regulations 1997*.

It is understood that the development is to consist of a church meeting hall, therefore noise sources considered as part of this assessment include:

- Singing / Music Inside.
- Plant by way of the air conditioning.
- Car movements on site.

From information provided, the operating conditions of the proposed development are as follows:

Worship services:

Morning service - 9:30AM -12Noon, includes after service fellowship;
Evening service - 5:30PM - 8:00PM, includes after service fellowship;
Afternoon service - 2:00PM - 5:00PM, includes after service fellowship (afternoon service will be provided as needed, depending on the number of regular attendees).

Other activities:

Bible studies/Life groups after Worship services;
Church ministry meetings - after the Worship services;
Worship Team practice - available during Worship service times;
Sunday School/Creche - available during Worship service times.

Other Parameters

- Air Conditioning –Units (Ground Mounted).

It is noted that worship could take the form of amplified singing & music with individuals speaking, however there is no call to worship, bell ringing.

For information, the site plan for the proposed development is attached in Appendix A.

2. SUMMARY

Noise Emissions

For this development, the closest residential premises (Andrews Turn and the Ocean Reef Caravan Village) of concern are located to the west of the proposed development. Other neighbouring premises are zoned as Commercial / Industrial.

As the meeting hall could be used from 09:00 on Sundays, noise received at the neighbouring noise (highly) sensitive premises from these noise sources needs to comply with the appropriate assigned noise levels of:

Highly Noise Sensitive Premises

- 19:00 to 2200 hours Monday to Saturday and after 0900 hours Sunday and Public Holidays L_{A10} 48 dB(A), L_{A1} 58 dB(A), and L_{Amax} 68 dB(A).

Industrial Premises

- All Hours L_{A10} 65 dB(A), L_{A1} 80 dB(A), and L_{Amax} 90 dB(A).

Commercial Premises

- All Hours L_{A10} 60 dB(A), L_{A1} 75 dB(A), and L_{Amax} 80 dB(A).

The noise associated with car movements on site would be of short term duration and compliance with the assigned L_{A1} noise levels, are required. Noise from the mechanical plant and singing / music during worship would occur for more than 10% of the time, hence noise received at the neighbouring premises needs to comply with the assigned L_{A10} noise levels.

It is noted that as the development would be considered as a public place, noise emissions associated with the vehicles on site need to be considered individually.

The assessment indicates that noise emissions from cars on site would comply with the requirements of the *Environmental Protection (Noise) Regulations 1997* at all times.

Noise emissions from car doors closing and engines starting, would comply with the assigned L_{Amax} noise levels.

Finally, it is noted that noise emissions from the Place of Worship, would under the Environmental Protection (Noise) Regulations 1997 be considered as community noise and under the Regulations, Regulation 7 does not apply. Even so, information is provided with regards to the noise that would be received at the neighbouring residences from the Place of Worship.

Based on the design provided, noise received at the neighbouring premises from the development would be deemed to comply with the Regulatory requirements at all times.

3. CRITERIA

3.1 ENVIRONMENTAL PROTECTION (NOISE) REGULATIONS 1997

The allowable noise level at the surrounding locales is prescribed by the *Environmental Protection (Noise) Regulations 1997*. Regulations 7 & 8 stipulate maximum allowable external noise levels determined by the calculation of an influencing factor, which is then added to the base levels shown below. The influencing factor is calculated for the usage of land within two circles, having radii of 100m and 450m from the premises of concern.

TABLE 3.1 - BASELINE ASSIGNED OUTDOOR NOISE LEVEL

Premises Receiving Noise	Time of Day	Assigned Level (dB)		
		L _{A10}	L _{A1}	L _{Amax}
Noise sensitive premises: highly sensitive area	0700 - 1900 hours Monday to Saturday (Day)	45 + IF	55 + IF	65 + IF
	0900 - 1900 hours Sunday and Public Holidays (Sunday / Public Holiday Day)	40 + IF	50 + IF	65 + IF
	1900 - 2200 hours all days (Evening)	40 + IF	50 + IF	55 + IF
	2200 hours on any day to 0700 hours Monday to Saturday and 0900 hours Sunday and Public Holidays (Night)	35 + IF	45 + IF	55 + IF
Noise sensitive premises: any area other than highly sensitive area	All hours	60	75	80
Commercial premises	All hours	60	75	80

Note: L_{A10} is the noise level exceeded for 10% of the time.
 L_{A1} is the noise level exceeded for 1% of the time.
 L_{Amax} is the maximum noise level.
 IF is the influencing factor.

It is a requirement that received noise be free of annoying characteristics (tonality, modulation and impulsiveness), defined below as per Regulation 9.

“impulsiveness” means a variation in the emission of a noise where the difference between L_{Apeak} and L_{Amax(Slow)} is more than 15 dB when determined for a single representative event;

“modulation” means a variation in the emission of noise that –

- (a) is more than 3 dB L_{AFast} or is more than 3 dB L_{AFast} in any one-third octave band;
- (b) is present for more at least 10% of the representative assessment period; and
- (c) is regular, cyclic and audible;

“tonality” means the presence in the noise emission of tonal characteristics where the difference between –

- (a) the A-weighted sound pressure level in any one-third octave band; and
- (b) the arithmetic average of the A-weighted sound pressure levels in the 2 adjacent one-third octave bands,

is greater than 3 dB when the sound pressure levels are determined as L_{Aeq,T} levels where the time period T is greater than 10% of the representative assessment period, or greater than 8 dB at any time when the sound pressure levels are determined as L_{ASlow} levels.

Where the noise emission is not music, if the above characteristics exist and cannot be practicably removed, then any measured level is adjusted according to Table 3.2 below.

TABLE 3.2 - ADJUSTMENTS TO MEASURED LEVELS

Where tonality is present	Where modulation is present	Where impulsiveness is present
+5 dB(A)	+5 dB(A)	+10 dB(A)

Note: These adjustments are cumulative to a maximum of 15 dB.

Where the noise emission is music, then any measured level is adjusted according to Table 3.3 below.

TABLE 3.3 – ADJUSTMENTS TO MEASURED MUSIC NOISE LEVELS

Where impulsiveness is not present	Where impulsiveness is present
+10 dB(A)	+15 dB(A)

For this development, the closest residential premises of concern are located to the west of the proposed development (as indicated on Figure 3.1). Other neighbouring premises are zoned as Industrial, as per Figure 3.2.

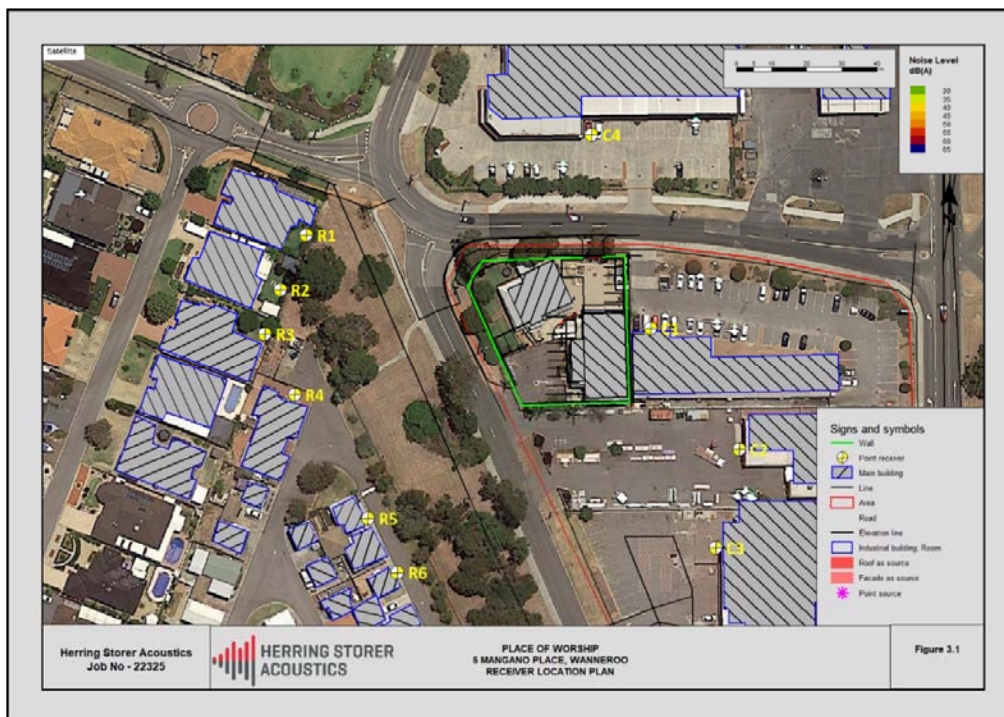


FIGURE 3.1 – NEAREST RESIDENTIAL RECEIVER

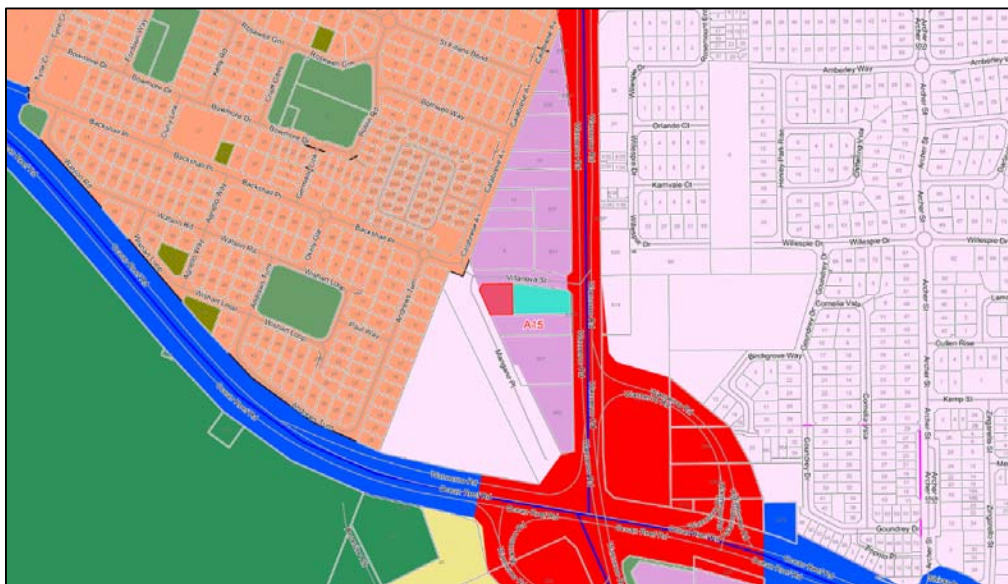


FIGURE 3.2 – ZONING MAP

Based on the results of the noise modelling, the influencing factor (IF) at the worst-case locations, as indicated on Figure 3.1 (with regards to noise received from the proposed facility) has been conservatively estimated as listed in Table 3.4.

TABLE 3.4 – INFLUENCING FACTORS

IF Factor Parameter	IF Factor (dB)
Major Road within inner circle	-
Major Road within outer circle	+2 Wanneroo Road +2 Ocean Reef Road
Secondary Road within inner circle	-
Commercial Premises within the inner circle	-
Commercial Premises within the outer circle	-
Industrial Premises within the inner circle	+2.5 (25%)
Industrial Premises within the outer circle	+1.5 (15%)
TOTAL IF	+8

Based on the above influencing factor, the assigned outdoor noise levels for the neighbouring residential locations are listed in Table 3.5.

TABLE 3.5 - ASSIGNED OUTDOOR NOISE LEVEL

Premises Receiving Noise	Time of Day	Assigned Level (dB)		
		L _{A 10}	L _{A 1}	L _{A max}
Noise sensitive premises: Highly sensitive area	0700 - 1900 hours Monday to Saturday	53	63	73
	0900 - 1900 hours Sunday and Public Holidays	48	58	73
	1900 - 2200 hours all days	48	58	63
	2200 hours on any day to 0700 hours Monday to Saturday and 0900 hours Sunday and Public Holidays	43	53	63
Industrial Premises	All Hours	65	80	90

Note: L_{A10} is the noise level exceeded for 10% of the time.
 L_{A1} is the noise level exceeded for 1% of the time.
 L_{Amax} is the maximum noise level.

Additional to the above, with regards to vehicles accessing the site, we note that as anyone can access the site and the operators of the premises have no control on who can enter the car park these areas would be designated as public places. Regulation 6 of the *Environmental Protection (Noise) Regulations 1997* relates to noise emissions from public places and under this Regulation, "the person who is causing or permitting that noise to be emitted is to be treated as the occupier...". Therefore, noise emissions from each individual vehicle using the car park needs to comply with the assigned noise levels.

3.2 APPROPRIATE CRITERIA

Noise Emissions

Given the operating times for the propose meeting hall, i.e. Sunday after 09:00 and weeknights between 19:00 and 21:00, the most stringent noise criteria would be the Sunday / evening period with the following criteria being applicable:

Highly Noise Sensitive Premises

- 19:00 to 2200 hours Monday to Saturday and after 0900 hours Sunday and Public Holidays L_{A10} 48 dB(A), L_{A1} 58 dB(A), and L_{Amax} 68 dB(A).

Industrial Premises

- All Hours L_{A10} 65 dB(A), L_{A1} 80 dB(A), and L_{Amax} 90 dB(A).

Commercial Premises

- All Hours L_{A10} 60 dB(A), L_{A1} 75 dB(A), and L_{Amax} 80 dB(A).

4. MODELLING

Predictive noise modelling has been undertaken for noise emissions from the proposed development onto the surrounding noise sensitive receptors.

4.1 NOISE EMISSIONS

Modelling of the noise propagation from the proposed development was carried out using an environmental noise modelling computer program, "SoundPlan". Calculations were carried out using the EPA standard weather conditions as stated in the Environmental Protection Authority's "Draft Guidance for Assessment of Environmental Factors No.8 - Environmental Noise".

To determine the noise received at the neighbouring premises, noise modelling was undertaken for the following scenarios:

- 1 Singing / Music Inside.
- 2 Plant; air conditioning (6 units).
- 3 Car movements on site.
- 4 Cars starting and doors closing.

With regards to noise emissions, the following are noted:

- 1 For the modelling of cars, the noise sources (ie cars) were located not only at the parking bays, but also at the entry crossover point to the development. Thus, ensuring noise modelling was undertaken for the worst-case locations.
- 2 Noise associated with the mechanical services does not take into account any diversity of operation. Such diversity would occur during the night period. Thus, this is a conservative assessment.

The calculations were based on sound power levels and sound pressure levels listed in Table 4.1.

TABLE 4.1 – GENERAL SOUND POWER / SOUND PRESSURE LEVELS

Item of Equipment	Sound Power Level, (dB(A))
Cars moving	79
Car Start	85
Car Door	87
Air Conditioning Units	6 at 60 dB(A) @ 1m
Singing / Music Inside (Amplified)	98
Singing (Unamplified)	75/m ²

The above noise sources need to comply with the following assigned noise levels:

- L_{A10} - Mechanical services and Music / Singing.
- L_{A1} - Car movements.
- L_{AMax} - Car engine starts and doors closing.

The resultant noise levels listed in Table 4.2 for the residential locations are for the worst case operating conditions.

TABLE 4.2 – WORST CASE CALCULATED NOISE LEVELS

Item	Calculated Noise Levels (dB(A))	
	Nearest Residence	Nearest Industry
Mechanical services (Air Con / Music)	38	49
Cars (Movement)	33	41
Car Start	36	44
Car Door Closing	38	46

5. ASSESSMENT

Given the above possible noise sources, we believe that assessments of the following scenarios are required.

It is noted that noise emissions from the development could be considered tonal or impulsive, however, the continuous noise levels associated with the surrounding road network and Industry would mask any annoying characteristics such as tonality and impulsiveness.

For the noise levels associated with music, a +10 dB penalty has been applied, as per regulatory requirements.

5.1 L_{A10} NOISE EMISSIONS

Noise emissions from the mechanical services would be steady state and would operate for the majority of time. For the music noise sources, it would be present for greater than 10% of the representative period. Hence noise received from these sources needs to comply with the assigned L_{A10} noise level.

The calculated noise levels were inspected for annoying characteristics, with the adjustments in Table 5.1 below are applicable.

Noise level emissions for the internal music / singing activities are considered likely to contain music, and therefore, a +10 dB adjustment is applicable – noting that impulsive characteristics are not considered likely to be present.

Noise level emissions associated with the air conditioning units are unlikely to be tonal, due to the level and ambient noise.

TABLE 5.1 – APPLICABLE ADJUSTMENTS AND ADJUSTED L_{A10} NOISE LEVELS, dB(A)

Measurement Location	Calculated Noise Level, dB(A)	Applicable Adjustments to Measured Noise Levels, dB(A)		Adjusted Noise Level, dB(A)
		Where Noise Emission IS music		
		Where impulsiveness is not present	Where impulsiveness is present	
Nearest Residence	38	+10	-	48
Nearest Industry	49	+ 10	-	59

Tables 5.2 summarises the applicable Assigned Noise Levels, and assessable noise level emissions for each identified case that needed to be considered.

TABLE 5.2 – ASSESSMENT OF L_{A10} NOISE LEVEL EMISSIONS

Location	Assessable Noise Level, dB(A)	Applicable Times of Day	Applicable Assigned L _{A10} Noise Level (dB)	Exceedance to Assigned Noise Level (dB)
Nearest Residence	48	Sunday / Public	48	Complies
Nearest Industry	59	Holiday After 09:00	65	Complies

5.2 L_{A1} NOISE EMISSIONS

Noise emissions from car movements on site need to comply with the assigned L_{A1} noise level. As the critical period for compliance for this source is the evening / Sunday Public Holiday (after 09:00) period, this scenario includes noise emissions from the sources associated with L_{A1} noise levels. However, as under the Regulations, each of these sources needs to be considered individually, it is the highest calculated noise levels used for assessment, rather than the cumulative overall noise levels.

Table 5.3 summarise the applicable Assigned Noise Levels, and assessable noise level emissions for each identified noise.

TABLE 5.3 – ASSESSMENT OF L_{A1} NOISE LEVEL EMISSIONS FROM CARS

Location	Assessable Noise Level, dB(A)	Applicable Times of Day	Applicable Assigned L _{A1} Noise Level (dB)	Exceedance to Assigned Noise Level (dB)
Nearest Residence	33	Sunday / Public	58	Complies
Nearest Industry	41	Holiday After 09:00	80	Complies

5.3 L_{AMAX} NOISE EMISSIONS

Noise emissions from car engine starts and doors closing on site need to comply with the assigned L_{AMax} noise level. As the critical period for compliance for this source is the night period, this scenario includes noise emissions from the sources associated with L_{AMax} noise levels. However, as under the Regulations, each of these sources needs to be considered individually, it is the highest calculated noise levels used for assessment, rather than the cumulative overall noise levels.

Tables 5.4 and 5.5 summarise the applicable Assigned Noise Levels, and assessable noise level emissions for each identified noise.

TABLE 5.4 – ASSESSMENT OF L_{AMAX} NOISE LEVEL EMISSIONS FROM CAR STARTS

Location	Assessable Noise Level, dB(A)	Applicable Times of Day	Applicable Assigned L _{AMax} Noise Level (dB)	Exceedance to Assigned Noise Level (dB)
Nearest Residence	36	Sunday / Public	63	Complies
Nearest Industry	44	Holiday After 09:00	90	Complies

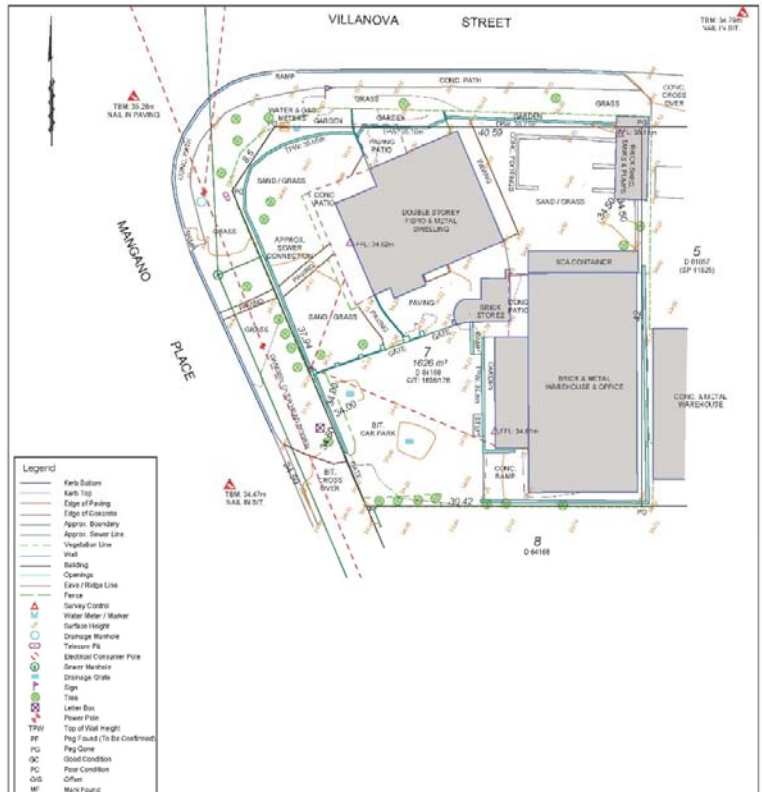
TABLE 5.5 – ASSESSMENT OF L_{AMAX} NOISE LEVEL EMISSIONS FROM CAR DOORS

Location	Assessable Noise Level, dB(A)	Applicable Times of Day	Applicable Assigned L _{AMax} Noise Level (dB)	Exceedance to Assigned Noise Level (dB)
Nearest Residence	38	Sunday / Public	63	Complies
Nearest Industry	46	Holiday After 09:00	90	Complies

From the above assessments, it can be seen that noise received at the neighbouring residence, even using a conservative analysis, complies with the requirements of the *Environmental Protection (Noise) Regulations 1997* at all times.

APPENDIX A

PLANS



Legend

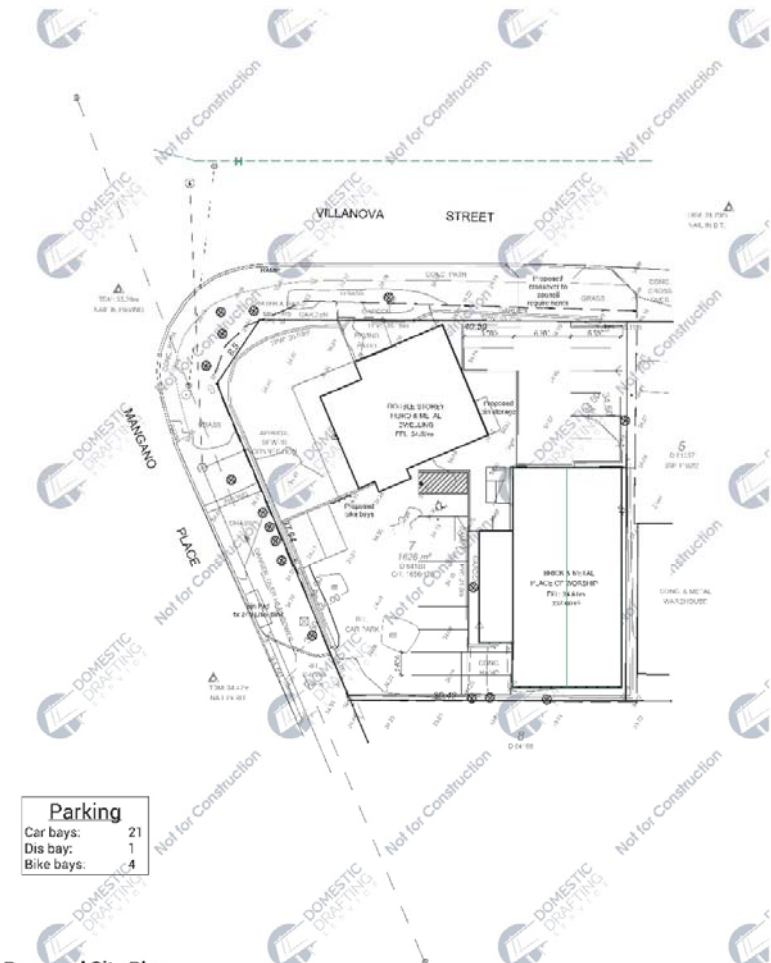
- Kerb Bottom
- Kerb Top
- Edge of Paving
- Edge of Concrete
- Approx. Boundary
- Approx. Sewer Line
- Vegetation Line
- Wall
- Building
- Openings
- Lane/Highway Line
- Fence
- Survey Control
- Water Meter / Meter
- Surface Height
- Drainage Manhole
- Pressure Pt.
- Electrical Consumer Pole
- Sewer Manhole
- Drainage Grate
- Sign
- Tree
- Letter Box
- Power Pole
- Top of High Height
- PP Peg Found (To Be Confirmed)
- PG Peg Gone
- QC Good Condition
- PC Poor Condition
- O/S Open
- MF Mark Found

NOTES:

- This plan has been prepared by DOMESTIC DRAFTING and should not be used for any other purpose or by any other party unless authorized in writing by Domestic Drafting Pty Ltd.
- Customer/Resident should show any appropriate signs and have been advised from Domestic Drafting Pty Ltd of any and all costs for any other signs. Refer to the agreement of any work, unless such notices should be noted for the location of all appropriate notices.
- Note: In the event of any work, unless such notices should be noted for the location of all appropriate notices.
- Levels are based on 1984 MSL and prior to any construction must be verified with a licensed A/C1 Surveyor.
- Total Project Coverage: MyCAD designs are responsible for any project as well. Design to the point of handover of the project of the client. All works including any additional works and features that have occurred after the date of this survey.
- Due to the nature of some works to be carried out for this plan only.
- This is a single plot of the site and not a subdivision.

PROPERTY DETAILS - LOT 7

Category	Water	Sewer	Gas	Electricity	Other	Miscellaneous
Category	Water	Sewer	Gas	Electricity	Other	Miscellaneous
Category	Water	Sewer	Gas	Electricity	Other	Miscellaneous



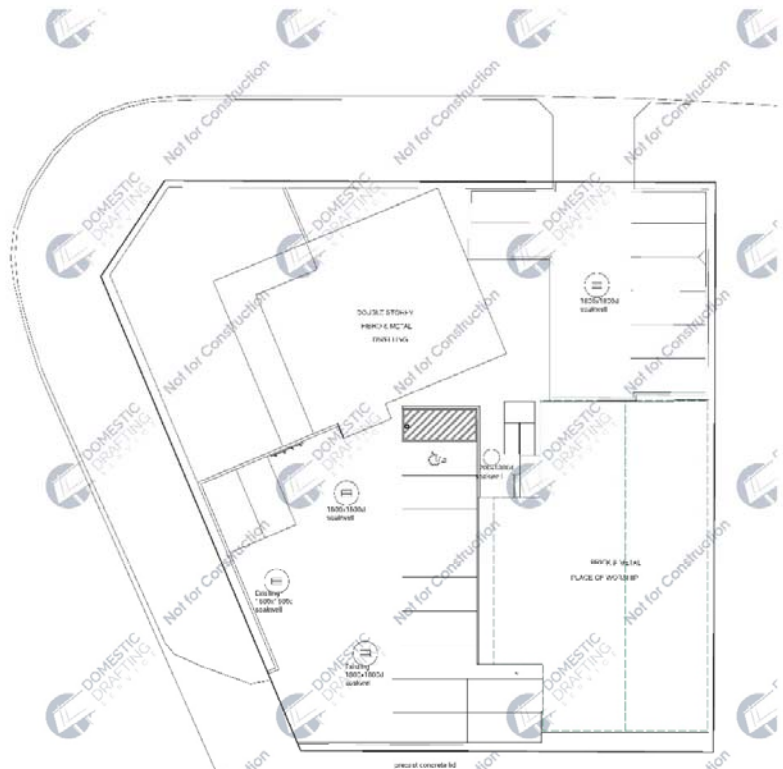
Proposed Site Plan
Scale: 1:300

DATE	15/11/2025	DATE	15/11/2025	DATE	15/11/2025
BY	15/11/2025	BY	15/11/2025	BY	15/11/2025
BY	15/11/2025	BY	15/11/2025	BY	15/11/2025

DOMESTIC DRAFTING SERVICE
25a Dorothy Street, Goswells, WA 6110
TEL: 08 9438 2199 FAX: 08 9438 2176

DRUKPA Australia Incorporated
PROJECT: Proposed Site of Warehouse
ADDRESS: 5 Mangano Place Wanneroo

PAGE 1b
REV SP4
SCALE 1:300
DWG 4535



DRAINAGE CALCS

Catchment Area: 341.16sqm
 Roof area: 273.05sqm
 Pavement area: 68.11sqm
 Total Catchment Area: 341.16sqm

Capacity: 215.97 x 0.8000 = 172.78m³

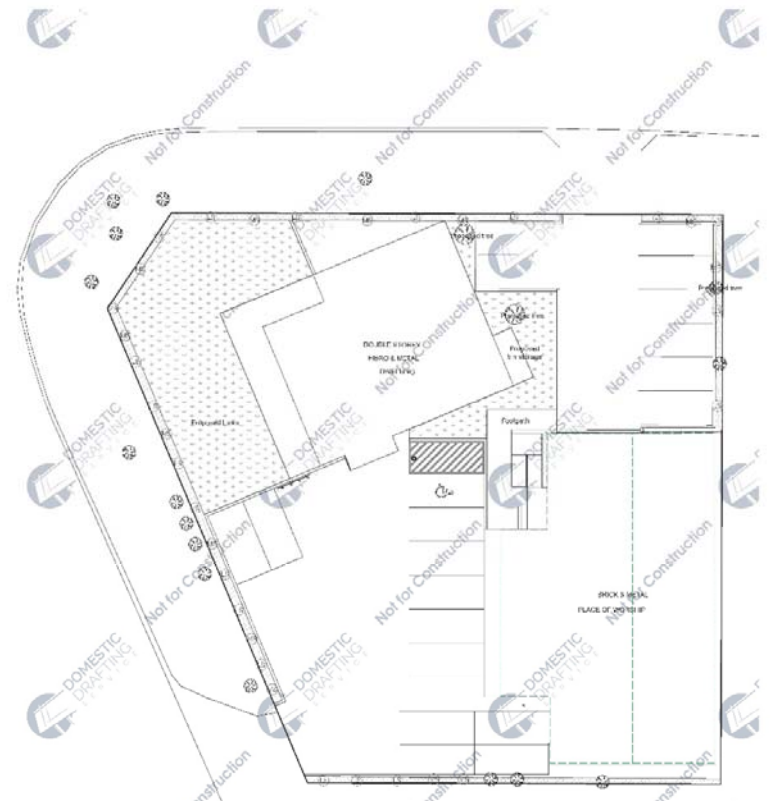
Flow	Depth	Area	Capacity
0.1000	0.1000	4.41	0.441m³
0.1500	0.1500	5.12	0.768m³
0.2000	0.2000	6.82	1.364m³
0.2500	0.2500	9.03	2.258m³
0.3000	0.3000	11.74	3.518m³
0.3500	0.3500	14.95	5.238m³
0.4000	0.4000	18.66	7.438m³
0.4500	0.4500	22.87	10.138m³
0.5000	0.5000	27.68	13.438m³
0.5500	0.5500	33.09	17.338m³
0.6000	0.6000	39.10	21.838m³
0.6500	0.6500	45.71	26.938m³
0.7000	0.7000	52.92	32.638m³
0.7500	0.7500	60.73	38.938m³
0.8000	0.8000	69.14	45.838m³
0.8500	0.8500	78.15	53.338m³
0.9000	0.9000	87.76	61.438m³
0.9500	0.9500	97.97	70.138m³
1.0000	1.0000	108.78	79.538m³

Typical Soakwell Detail
Scale: 1:50

- DRAINAGE & EARTHWORKS NOTES**
- Remove All Vegetation and Obstructions Within Area of Construction.
 - Use Only Clean Clay Pipes 150mm or 200mm.
 - Provide a Catchment Tank Certificate in Qld or NSW 7 Below / 300mm.
 - All Soakwells to be in Compliance with 2018 Earthworks for Fire and Safety and Council and Drainage Codes.
 - Soakwell to be placed in the Channel, from 100mm to 150mm from the Edge of the Channel.
 - Operator to be Responsible for the Location and Protection of All Utility Services. Refer to the Utility Plans and the 1:200 Map on 411 Sheets prior to Construction for further Location.
 - Operator to be Responsible for the Location and Protection of All Utility Services. Refer to the Utility Plans and the 1:200 Map on 411 Sheets prior to Construction for further Location.
 - Operator to be Responsible for the Location and Protection of All Utility Services. Refer to the Utility Plans and the 1:200 Map on 411 Sheets prior to Construction for further Location.
 - Operator to be Responsible for the Location and Protection of All Utility Services. Refer to the Utility Plans and the 1:200 Map on 411 Sheets prior to Construction for further Location.

Drainage Plan
Scale: 1:200

<p>25a Dorothy Street, Gosnells, WA 6110 TEL: 08 9436 2179</p>	DATE	15/11/2020	BY	SP	CHECKED	SP	SCALE	1:200	PAGE	1c
	DATE	16/11/2020	BY	SP	CHECKED	SP	SCALE	1:200	PAGE	SP4
	DATE	19/12/2020	BY	SP	CHECKED	SP	SCALE	1:50	PAGE	SP4
	DATE	17/04/2021	BY	SP	CHECKED	SP	SCALE	1:50	PAGE	SP4
	DATE	17/04/2021	BY	SP	CHECKED	SP	SCALE	1:50	PAGE	SP4
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LANDSCAPING LEGEND

Sym	Name	Description	QTY
(Symbol)	Lawn	50mm deep, 100mm wide, in 50mm Water Buffalo Grass	450m²
(Symbol)	Mulch	Apply mulch to surrounding Mulch to a depth of 100mm (min)	50m²
(Symbol)	Grass Plant	Grass Plant	5
(Symbol)	Grass Plant	Grass Plant	5

Proposed Landscaping Plan
Scale: 1:200

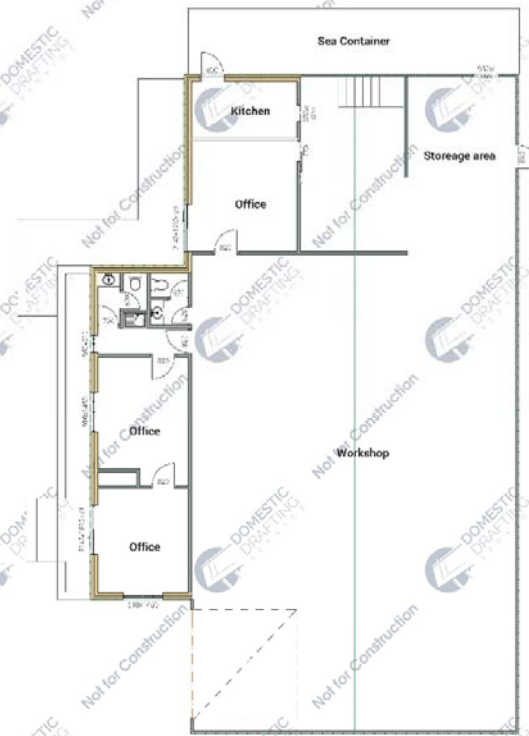
<p>25a Dorothy Street, Gosnells, WA 6110 TEL: 08 9436 2179</p>	DATE	15/11/2020	BY	SP	CHECKED	SP	SCALE	1:200	PAGE	1d
	DATE	16/11/2020	BY	SP	CHECKED	SP	SCALE	1:200	PAGE	SP4
	DATE	19/12/2020	BY	SP	CHECKED	SP	SCALE	1:50	PAGE	SP4
	DATE	17/04/2021	BY	SP	CHECKED	SP	SCALE	1:50	PAGE	SP4
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Existing Residence
(No changes)
1998.10m²

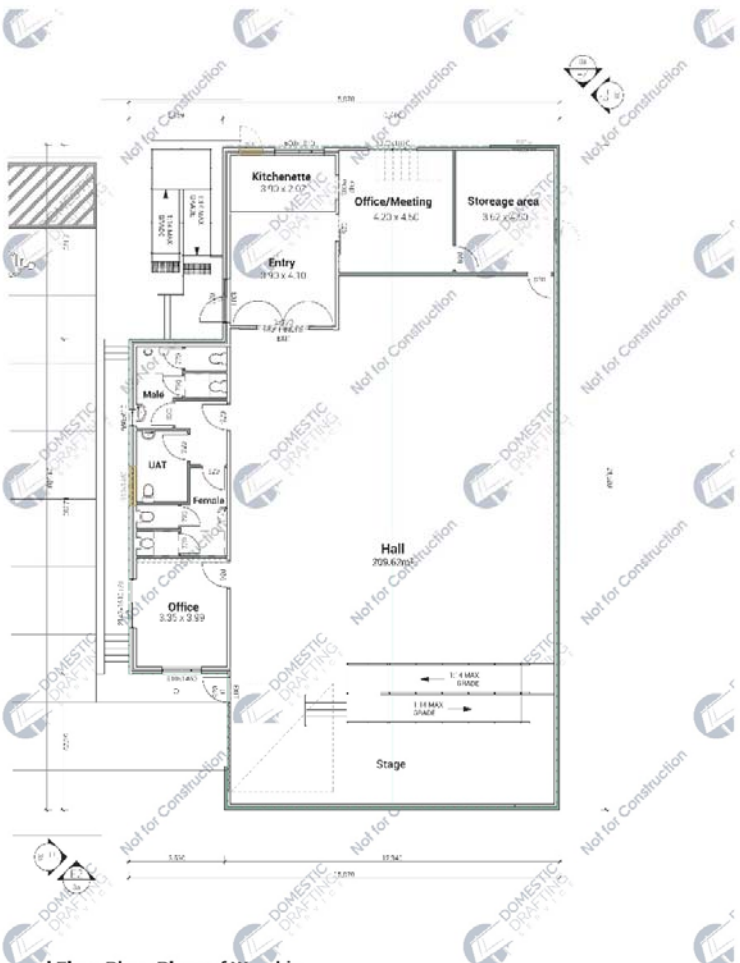
Existing Floor Plan
Scale 1:100

<p>25a Dorothy Street, Gosnells, WA 6110 TEL: 08 9496 2199 FAX: 08 9496 2176</p>	DATE	CHECK	REVISION	CUSTOMER	PAGE
	15/11/2019	P	SP1	Drukpa Australia Incorporated	2a
	16/11/2019	P	SP2		SP4
	19/12/2019	F	SP3	PROJECT	SCALE
	17/04/2020	F	SP4	Proposed Place of Worship	1:100
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Existing Floor Plan
Scale 1:100

<p>25a Dorothy Street, Gosnells, WA 6110 TEL: 08 9496 2199 FAX: 08 9496 2176</p>	DATE	CHECK	REVISION	CUSTOMER	PAGE
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	16/11/2019	P	SP2		SP4
	19/12/2019	F	SP3	PROJECT	SCALE
	17/04/2020	F	SP4	Proposed Place of Worship	1:100
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Proposed Floor Plan- Place of Worship
Scale 1:100

 <p>25a Dorothy Street, Gosnells, WA 6110 TEL: 08 9496 2129 FAX: 08 9496 2126</p>	DATE	CHECK	REVISION	CLIENT	PAGE
	15/11/2019	F	SP1	Drukpa Australia Incorporated	2c
	16/11/2019	F	SP2		REV
	19/12/2019	F	SP3	PROJECT	SP4
	17/08/2020	F	SP4	Proposed Place of Worship	SCALE
				5 Mangrove Place	DWG
				Warrnambool	4535

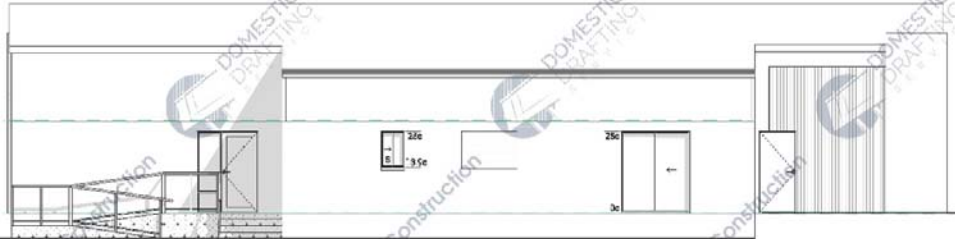
existing colorbond roof sheeting at approx
10° pitch over steel framed roof
to AS4100 steel framing codes

colorbond
gutter & fascia

colorbond cladding

C.L. at 7400

painted facebrick work
aluminium frame
windows & s/ds
F.L. at 00



Elevation 1

Scale 1:100

existing colorbond roof sheeting at approx
10° pitch over steel framed roof
to AS4100 steel framing codes

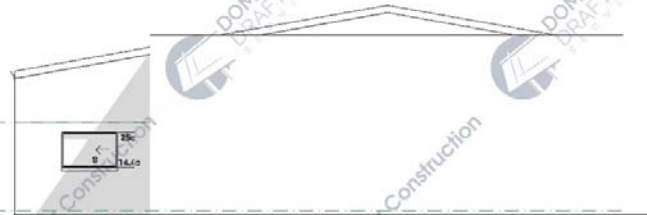
colorbond
gutter & fascia

colorbond cladding

C.L. at 7400

painted facebrick work

aluminium frame
windows & s/ds
F.L. at 00



Elevation 2

Scale 1:100



25a Dorothy Street, Gosnells, WA 6110
TEL 08 9390 2139 IABN 47 660 556 278

DRAWN	DATE	CHECK	DESCR
B7	15.11.2022	TL	SP1
B7	06.12.2022	TL	SP2
B7	15.12.2022	TL	SP3
B7	17.01.2023	TL	SP4

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PROJECT
Proposed Place of Worship
ADDRESS
5 Mangano Place Wanneroo

PAGE 3a
REV SP4
SCALE 1:100
DWG 4535

existing colorbond roof sheeting at approx
10° pitch over steel framed joist
to AS4100 steel framing codes

C.L. at 3200

painted concrete wall

F.L. at 00

Elevation 3

Scale 1:100

existing colorbond roof sheeting at approx
10° pitch over steel framed roof
to AS4100 steel framing codes

colorbond
gutter & fascia

C.L. at 3200

colorbond cladding

C.L. at 2400

painted facebrick work
aluminium frame
windows & s/s

F.L. at 00

Elevation 4

Scale 1:100



25a Dorothy Street, Gosnells, WA 6110
TEL 08 9390 2139 IABN 47 660 556 278

DRAWN	DATE	CHECK	DISC
BT	15.11.2022	TL	SP1
BT	06.12.2023	TL	SP2
BT	15.12.2023	TL	SP3
BT	17.01.2025	TL	SP4

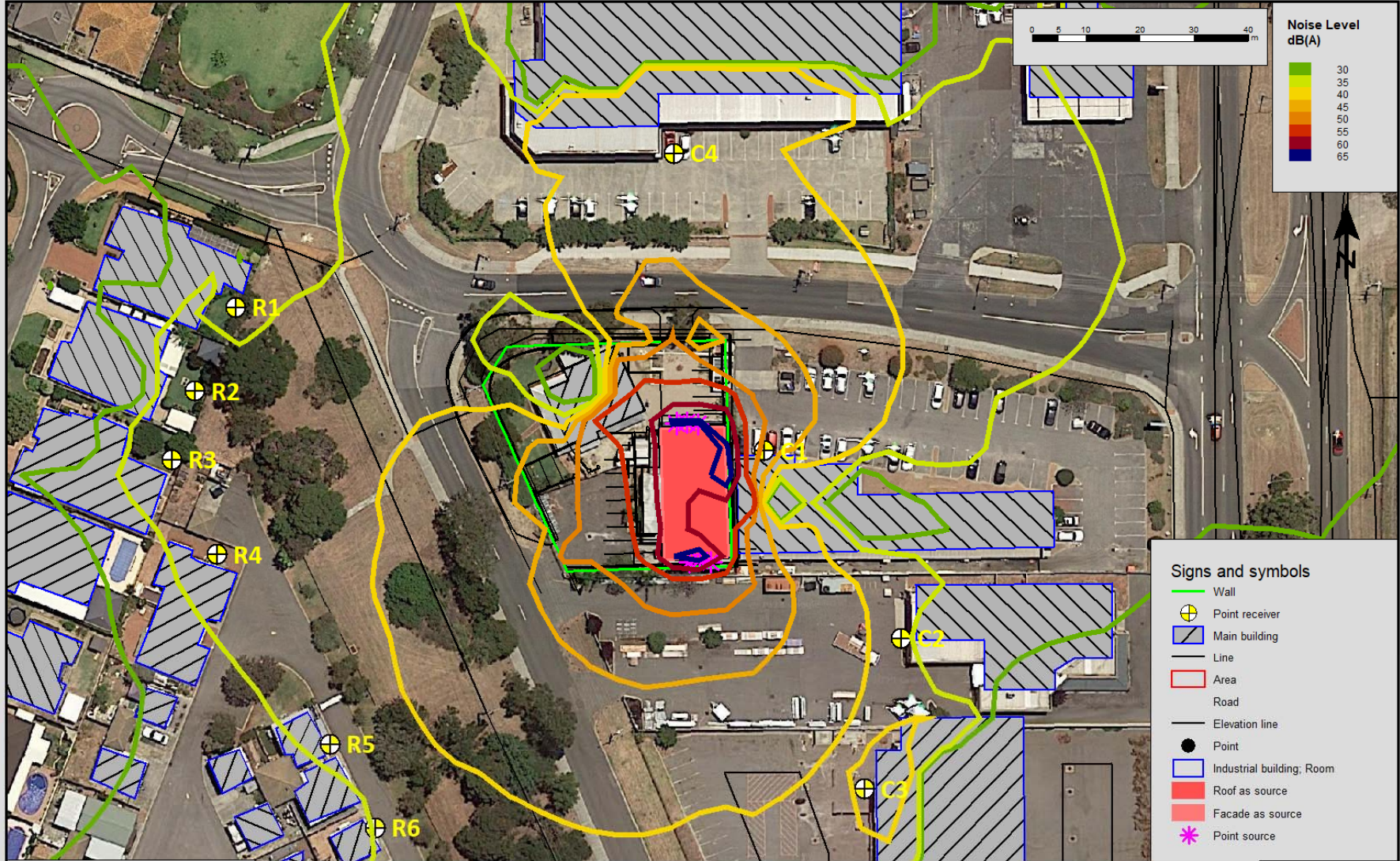
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PAGE 3b
REV SP4
SCALE 1:100
DWG 4535

APPENDIX B

NOISE CONTOUR PLOTS

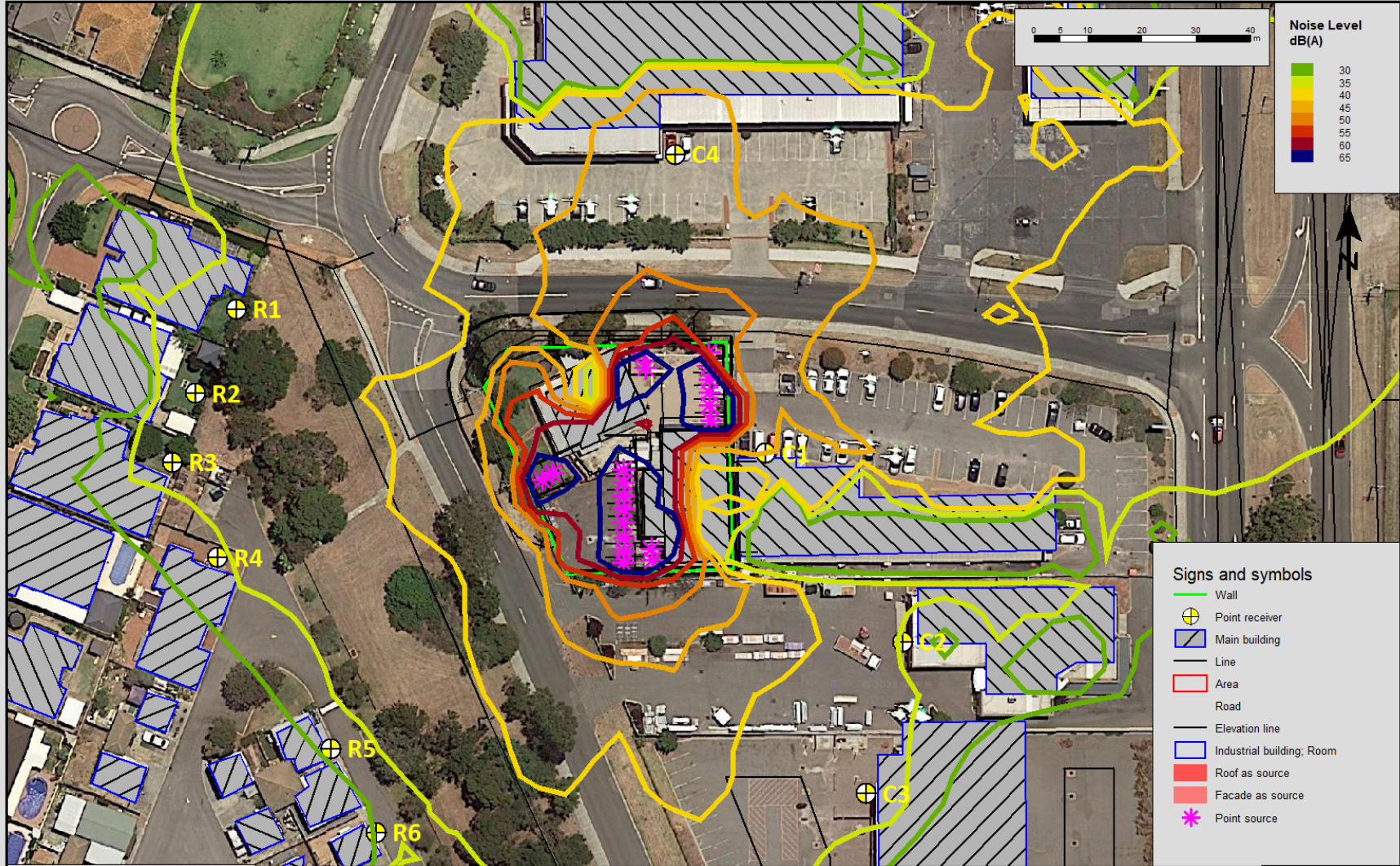


Herring Storer Acoustics
Job No - 22325



PLACE OF WORSHIP
5 MANGANO PLACE, WANNEROO
LA10 NOISE SOURCES - WORST CASE NOISE CONTOUR PLOT

Figure B1
Ref # 002



Herring Storer Acoustics
Job No - 22325



PLACE OF WORSHIP
5 MANGANO PLACE, WANNEROO
L_{max} NOISE SOURCES - WORST CASE NOISE CONTOUR PLOT

Figure B2
Ref # 004