Palladium Resort Development Noise Impact Study (NIS)

2775 & 2785 Palladium Drive, Kanata, Ontario

Palladium Resort Development Limited Partnership
Care of: LRL Associates Limited
Noise Impact Study (NIS) – Revision 03
Reference no. 02631107.000

October 02, 2026

ENGLOBE

Palladium Resort Development Limited Partnership
Care of: LRL Associates Limited
Reference no. 02631107.000

Prepared by:



Martin Villeneuve, P.Eng.
Acoustical Engineer
Licensed Engineering Practitioner License Number:
100189783 Professional Engineers Ontario

Production team

Care of: LRL Associates Limited

Director of Civil Engineering	Virginia Johnson

Englobe Corp.

Project Manager / Acoustical Engineer	Martin Villeneuve, P.Eng.

Revisions and publications log

REVISION No.	DATE	DESCRIPTION
00	June 25, 2026	Issued for Submission
01	June 30, 2026	Minor changes and addition of 425 Culdaff Rd. & 2765 Palladium Dr.
02	September 25, 2026	Changes in response to City of Ottawa comments received.
03	October 02, 2026	Minor changes to reflect latest Site Plan

Distribution

1 PDF copy	Emailed to Client

PROPERTY AND CONFIDENTIALITY STATEMENT

This report has been prepared by Englobe Corp. (“Englobe”) for the exclusive use of the person or entity to whom it is addressed (the “Client”) and for the purposes outlined in the agreement between Englobe and the Client (the “Agreement”). The content of this report, including all data, analyses, and recommendations, is confidential and proprietary to Englobe and/or the Client.

OWNERSHIP AND USE

All intellectual property rights in this report remain the exclusive property of Englobe. Provided that all fees owed to Englobe under the Agreement have been paid in full, the Client is granted a limited, non-transferable license to use the report solely for its intended purpose, in accordance with the Agreement. Any use must consider the report’s purpose, scope, limitations, and the state of scientific knowledge at the time of preparation.

The report contains confidential information proprietary to Englobe. The reproduction, distribution, or adaptation of the report, in whole or in part, is strictly prohibited without the prior written consent of Englobe. The report must be read and considered in its entirety. Extracts or partial use are not permitted without prior written authorization.

LIMITATION OF LIABILITY

This report has been prepared in accordance with the standard of care, skill, and diligence generally exercised by professional engineers providing similar services under comparable circumstances in the same locality at the time the services were performed. No other warranties, express or implied, are made, including but not limited to warranties regarding the completeness, accuracy, or suitability of the information contained in this report. Englobe expressly disclaims any responsibility or liability for:

- Use of this report beyond the scope of the Agreement;
- Use of the report or any portion thereof by third parties without prior written authorization from Englobe; or
- Unauthorized reproduction, distribution, or adaptation of the report.

Table of Contents

1 INTRODUCTION 1
1.1 Facility Description 1
2 PART 1: STATIONARY NOISE SOURCE 2
2.1 Noise Sources 2
2.2 Points of Reception 3
2.3 Applicable Noise Level Limits 4
2.4 Modelling and Results 5
2.4.1 Modelling Methodology and Assumptions 5
2.5 Assessment Results 5
2.5.1 Non-Emergency Equipment (Generator Not Included) 6
2.5.2 Emergency Equipment Only 7
3 PART 2: TRANSPORTATION CORRIDOR NOISE IMPACT 8
3.1 Source(s) – Road Traffic Parameters 8
3.2 Critical Point(s) of Reception 9
3.3 Noise Level Criteria – Roads 9
3.3.1 Outdoor Noise Level Criterion 9
3.3.2 Indoor Noise Level Criteria 9
3.4 Noise Level Calculations 10
3.5 Noise Control Recommendations – Transportation Corridors 10
3.5.1 Ventilation Requirements 11
3.5.2 Building Component Requirements 11
4 CLOSURE 11
STATEMENT OF LIMITATIONS 12
5 REFERENCES 13

APPENDICES

Appendix A: Stationary Noise Source NIS Site and Process Figures
Appendix B: Stationary Noise Source NIS Tables
Appendix C: Manufacturer Noise Level Data
Appendix D: CadnaA Model Figures
Appendix E: Sample CadnaA Output
Appendix F: Transportation Corridor NIS Figures
Appendix G: Transportation Corridor NIS Results
Appendix H: Statement of Limitations

1 INTRODUCTION

Englobe Corp. ("Englobe") was engaged by LRL Associates Ltd. ("LRL" or the "Client"), to prepare a Noise Impact Study ("NIS") for a proposed new resort development (the "Project"), located between Palladium Drive and Culdaff Road (2775 & 2785 Palladium Drive) in Kanata, Ontario. The development will include a 7-storey hotel, a family entertainment centre, as well as an indoor waterpark.

This NIS is intended for submission to the City of Ottawa as part of the Project's site plan control application. It is understood that the City considers the Project to be both noise sensitive (hotel) and a stationary noise source. Given the proximity of transportation corridors to the Project, the NIS contains an assessment of the impact of road noise on the hotel, as well as an assessment of the impact of on-site equipment noise on the surrounding community.

This report (Revision 02) supersedes the previous version of the report (Revision 01). Additions were made in response to City of Ottawa comments, including: the assessment of the impact of on-site equipment noise at on-site sensitive points of reception; greater consideration of the proposed residential project at 2765 Palladium Drive, adjacent to the Project; and, the assessment of the impact of a proposed emergency generator for the Project.

1.1 Facility Description

The proposed Project will feature a 7-storey hotel (including approximately 238 rooms with a gross floor area of approximately 13,700 m^2), a new 2-storey family entertainment centre attached to the hotel (gross floor area of approximately 4,400 m^2), a 1-storey support building attached to the entertainment centre (gross floor area of approximately 1,300 m^2) and an indoor waterpark attached to both the family entertainment centre and the support building (gross floor area of approximately 6,600 m^2). The land is currently vacant. The location of the Project is shown on Figure A1 provided in Appendix A.

The area surrounding the Project is made up of a mix of residential, greenspace and mixed-use land uses: under the new Zoning By-law No. 2026-50, the Project site as well as the land southeast of the Project are zoned IM (Mixed Industrial Zone), the land to the northeast of the Project is zoned NMU (Neighbourhood Mixed-Use Zone), the land southwest of the Project is zoned N3B (Neighbourhood Zone 3), the land west of the Project is zoned GRN (Greenspace Zone) and the land northwest of the Project is zoned DR (Development Reserve Zone). A zoning map is shown on Figure A2 provided in Appendix A.

The Project features a ground surface consisting primarily of grass, and the area south of the buildings consists of a paved parking lot. The topography in the area is considered flat. For the context of this NIS, the Project is assumed to operate 24 hours/day, 7 days/week – however, it is also anticipated that the waterpark and associated infrastructure will generally not be open to the public overnight.

Operations of the Project are not expected to include significant sources of vibration, and therefore a detailed vibration impact assessment is not considered at this time. This assessment considers potential noise impacts only.

The NIS is based on the Site Plan Drawing SP-A01/2/3 rev.05, dated 01 October, 2026, as well as Floor Plans A100/1/2/3 rev.04, each dated 25 September, 2026, prepared by McRobie Architects + Interior Designers. Furthermore, since the Project's mechanical design is not substantially developed at the time of publishing of this NIS, a Mechanical Drawing Package for a similar project constructed in Grand Prairie, Texas was used, Issued for permit and dated 01 July 2016.

2 PART 1: STATIONARY NOISE SOURCE

Part 1 of this NIS assesses all sources of significant noise emissions located within the Project boundaries.

Predicted noise impacts to nearby noise sensitive land uses, as well as to on-site noise sensitive points of reception, are determined based on an operating scenario that would result in predictable worst-case noise emissions from the Project. The operating scenario assessed in this case is a night-time scenario where all rooftop equipment is operating at 100% load, and all southeast-facing packaged terminal air conditioners (PTAC) associated with each southeast-facing hotel room and also operating at 100% load in heating mode (worst-case, louder than cooling mode according to available manufacturer noise level data).

2.1 Noise Sources

Based on the Mechanical Drawing Package for the similar project constructed in Grand Prairie, Texas (see Section 1.1), as well as on input from the Project Mechanical Engineer from LRL, the assumed significant noise sources associated with the Project include those listed in Table 2-1, below. Of note, these are subject to change as the design progresses and are used as a placeholder for the NIS. However, Englobe expects that similar equipment will produce comparable noise results.

Table 2-1: Significant Noise Sources Associated with the Project

Noise Source	Function and/or Label	Manufacturer	Model	Steady, Varying or Impulsive?
Delivery Trucks Idling (x2)	One (1) at northwest loading dock and one (1) at southeast loading dock	Peterbilt	379/385	Steady
Delivery Truck Movement	On-site movements to/from loading docks			
Pool Dehumidification Air Handling Units	Rooftop Pool AHU 1, 2, 3, 4, 5 (60,000 CFM each)	Daikin	CAH032GDGM[1]	Steady
Rooftop Air Handling Units	Rooftop MAU (Hotel) (15,000 CFM)	Daikin	CAH032GDGM	Steady
	Mech Electr AHU 6 (15,000 CFM)		CAH032GDGM	
	Locker Room AHU 7 (5,000 CFM)		CAH014GHGM	
	Office AHU 8 (5,000 CFM)		CAH014GHGM	
	Lobby AHU 9 (15,000 CFM)		CAH032GDGM	
	Family Centre AHU 10 (15,000 CFM)		CAH032GDGM	
	Kitchen AHU 11 (5,000 CFM)		CAH014GHGM	
	Kitchen 2 AHU 12 (5,000 CFM)		CAH014GHGM	
	Restaurant AHU 13 (5,000 CFM)		CAH014GHGM	
Exhaust Fans	Kitchen Exhaust Fan 1	Greenheck	CUE-161-VG	Steady
	Kitchen Exhaust Fan 2		CUE-161-VG	
	General Exhaust Fan 1		GB-121	
	General Exhaust Fan 2		GB-121	
	General Exhaust Fan 3		GB-121	

Noise Source	Function and/or Label	Manufacturer	Model	Steady, Varying or Impulsive?
Packaged Terminal Air Conditioners (PTAC)	Hotel (one per room near window) Heating Mode 128 units included in the NIS	Daikin	RXB09B	Steady
Emergency Generator	Emergency Generator (Full-Load Operation)	Generac	SD150[2]	Steady

[1] In absence of any available 60,000 CFM noise level data, Englobe used Daikin Model CAH032GDGM AHU Data (15,000 CFM), an increased the levels by 6dB to estimate a 4x increase in CFM (6dB represents a 4x increase in sound energy).

[2] Final generator make, model and/or capacity may differ, since the Project's electrical design is not substantially developed at the time of publishing of this NIS. For the purposes of the NIS, a Generac SD150 with a Level 2 Sound Attenuated Enclosure, operating at full-load, was assumed, which emits 75 dBA measured at 7m (see manufacturer spec in Appendix C).

Of note, sources of noise typically assessed for a stationary noise source impact study are defined by the City of Ottawa's Environmental Noise Control Guidelines "ENCG" [1], which also refers to the Ontario Ministry of the Environment, Conservation and Parks ("MECP") Publication NPC-300 [2] in its definition. Specifically in NPC-300 [2], it is stated that "noise resulting from gathering of people at facilities such as restaurants, fairs and parks" is *not* considered part of the stationary noise source. As such, noise generated by the people themselves who are using the waterpark was not included in this NIS.

Sound power levels for each of the noise sources listed above, attached as Table B1 in Appendix B, were derived from manufacturer noise level data, attached in Appendix C. The locations of the significant noise sources are shown in Figure D1 in Appendix D.

All significant noise sources marked as "Steady" in Table 2-1 were assumed to be operating steadily and simultaneously to represent a predictable worst-case one-hour time period. For this Project, there are no significant noise sources marked as "Varying" or "Impulsive". Consistent with Section B7.3 of Publication NPC-300 [2], the emergency generator was assessed independently of all other stationary sources of noise, against a sound level limit that is 5dB greater than the sound level limit otherwise applicable to stationary sources. Since the assessment is for emergency equipment operating in non-emergency situations, such as testing or maintenance of such equipment, it is assumed that such testing or maintenance would occur during daytime hours. Sound level limits do not apply to emergency equipment operating in emergency situations.

2.2 Points of Reception

A Point of Reception ("POR"), as defined by ENCG [1], may be located on a property used for residential, noise sensitive commercial, or institutional purposes. All PORs are considered as representing a "plane of window", unless it is assessed as an Outdoor Living Area ("OLA", ex: backyard), consistent with the ENCG [1]. The nearest, worst-case PORs/OLAs are listed in Table 2-2, below. Furthermore, outdoor locations associated with a noise sensitive commercial purpose (such as the Project's OLAs, including hotel OLAs), are not considered to be points of reception, per the definition of POR in the ENCG [1].

Table 2-2: Worst-Case POR Locations Surrounding the Facility

POR / OLA №	Description	Receptor Height Above Grade [m]
OLA1	Backyard Outdoor Living Area associated with 51 Bermondsey Way	1.5
OLA2	Outdoor Living Area associated with 425 Culdaff Road (northwest side)	1.5

POR / OLA №	Description	Receptor Height Above Grade [m]
OLA3	Outdoor Living Area associated with 2765 Palladium Drive (north side, between proposed Buildings A & B)	1.5
POR1	2-storey residence located at 51 Bermondsey Way	4.5
POR2	3-storey residence located at 2030 Leinster Circle	7.5
POR3	6-storey future residence (approved by City of Ottawa) located at 425 Culdaff Road	16.5
POR4	6-storey future residence (under review by City of Ottawa) located at 2765 Palladium Drive (northwest side of proposed Building A, facing Project's generator location)	16.5
POR5	2nd storey hotel room window facing the loading area northwest of the Project	4.5
POR6	4th storey hotel room window near the easternmost corner of the hotel, near the Project's Support Building and Entertainment Centre rooftop mechanical equipment	10.5

Other nearby noise sensitive land uses are expected to experience lower noise levels than those listed in Table 2-2 due to the increased separation distance from the Project and/or acoustical "shading" due to obstructions (ie. other residential buildings). The locations of the PORs relative to the Project are shown in Figure D2 in Appendix D.

2.3 Applicable Noise Level Limits

The applicable guideline noise level limits used for this Project are contained in the City of Ottawa's ENCG [1].

For steady and varying noise, the ENCG [1] states that the one-hour equivalent noise levels ("$L_{EQ(1hr)}$") from stationary noise sources shall not exceed the higher of either the background noise level or the limits presented in Table 2-3, below.

Table 2-3: Applicable $L_{EQ(1hr)}$ Noise Level Limits from the ENCG [1] for Steady and Varying Sounds

Outdoor Points of Receptions (OLA)[1]			
Time of Day	**Class 1 Area [dBA]**	**Class 2 Area [dBA]**	**Class 3 Area [dBA]**
07:00 - 19:00	50	50	45
19:00 - 23:00	50	45	40
Plane of Window of Noise Sensitive Spaces[1]			
Time of Day	**Class 1 Area [dBA]**	**Class 2 Area [dBA]**	**Class 3 Area [dBA]**
07:00 - 19:00	50	50	45
19:00 - 23:00	50	50	40
23:00 - 07:00	45	45	40

[1] Per Section 2.1 of this report, generator noise level limits are 5dB higher than those presented in this table.

The area classification is considered to be Class 1 as defined in the ENCG [1], described as an area with an acoustical environment typical of a major population centre, where the background noise level is dominated by the activities of people, usually road traffic.

As outlined in Section 1.1, noise sources associated with the Project may be expected to operate in a worst-case condition during night-time hours – as such, assessment of compliance in the context of this NIS was undertaken for the night-time period only, assuming all significant noise sources listed in Table 2-1 are operating concurrently (including delivery trucks to account for the possibility of early-morning deliveries before 7am). For plane of window PORs, a noise level limit of 45 dBA is therefore used for this NIS, corresponding to a Class 1, night-time limit.

Per the ENCG [1], OLAs are not assessed over night-time periods. As such, for backyard OLAs, a noise level limit of 50 dBA is used for this NIS, corresponding to a Class 1, daytime limit.

As discussed in Section 2.1, since the assessment for emergency equipment is for when it is operating in non-emergency situations, such as testing or maintenance of such equipment, it is assumed that such testing or maintenance would occur during daytime hours. Therefore, for plane of window PORs and OLAs associated with the emergency generator assessment, a noise level limit of 55 dBA is therefore used for this NIS, corresponding to a Class 1, daytime limit for emergency equipment noise impacts.

2.4 Modelling and Results

2.4.1 Modelling Methodology and Assumptions

An acoustic model of the facility was prepared using *CadnaA* by Datakustik (Version 2026 MR1). The CadnaA program calculates noise levels surrounding a facility according to the ISO standard 9613-2, “Acoustics – Attenuation of Sound during Propagation Outdoors” [3]. The following parameters were used in the acoustic model:

- Grassy areas and fields assigned a default ground absorption of 0.90;
- The Project’s parking lot and surrounding roads are assumed to be acoustically reflective (ground absorption of 0.00);
- Maximum order of reflection of 3;
- Temperature of 10°C and relative humidity of 70%;
- Each significant piece of equipment was modelled as a point source, except for the delivery truck movements, which were modelled as a “moving point source” along a defined path, with a travel speed of 30 km/h. Four (4) trucks per hour were assumed as a worst-case scenario, resulting in one delivery truck driving to each loading once every 15-minutes in a worst-case hour;
- Topography in the area of the assessment was modelled as flat;
- Building facades near the proposed emergency generator location were assumed to be acoustically reflective.

Sample outputs and parameters are attached as Appendix E, for reference.

2.5 Assessment Results

Based on the results discussed in the following subsections, mitigation solutions are required to ensure that predicted noise impact results are in compliance with the applicable noise level limits.

2.5.1 Non-Emergency Equipment (Generator Not Included)

For non-emergency equipment noise sources, predicted noise impacts at each POR are summarized in Table 2-4, with the resulting noise level plot provided as Figures D2 in Appendix D. A partial-levels table for the non-emergency equipment assessment is provided as part of the CadnaA outputs contained in Appendix E.

Table 2-4: Predicted Noise Levels and Resulting Compliance Review – Non-Emergency Equipment (Generator Not Included)

POR No.	Location	POR Type	Predicted Noise Impact (dBA)	Noise Level Limit (dBA)	Compliant? (Y or N)
OLA1	51 Bermondsey Way (yard)	Residential	37	50	Y
OLA2	425 Culdaff Road (amenity)	Residential	49	50	Y
OLA3	2765 Palladium Drive (amenity)	Residential	51	50	N
POR1	51 Bermondsey Way	Residential	36	45	Y
POR2	2030 Leinster Circle	Residential	21	45	Y
POR3	425 Culdaff Road	Residential	50	45	N
POR4	2765 Palladium Drive	Residential	58	45	N
POR5	Project Hotel 2nd Floor - NW	Commercial	76	45	N
POR6	Project Hotel 4th Floor - NE	Commercial	50	45	N

Based on the results above, for non-emergency equipment, noise mitigation measures are required to address exceedances at POR3 to POR6 and OLA3.

For non-emergency equipment exceedances at POR4, POR4, POR5 and OLA3, the most significant noise sources are the idling delivery trucks located at the Project's loading areas. As such, Englobe proposes the following mitigation recommendation:

— Implementation of a no-idling policy for all delivery trucks associated with the Project.

For non-emergency equipment exceedances at POR6, the most significant noise sources are the PTAC units installed in each hotel rooms' exterior wall. Due to the proximity of these sources from an adjacent hotel room's acoustically-sensitive window, it is recommended that the City of Ottawa consider that inoperable windows be an acceptable option to control noise, consistent with the following part of the definition of "Inoperable (fixed or sealed) window" in Publication NPC-300 [2]: "*The cases where inoperable windows may be acceptable for use as receptor based "on building" noise control measures to control noise from stationary sources are: […] windows that are associated with noise sensitive spaces in a noise sensitive commercial purpose building […].*" A hotel is defined as a type of noise sensitive commercial purpose building. Per Section 3.5.2 of this NIS report, building façade constructions (including exterior walls and windows) compliant with the OBC are expected to achieve the indoor noise levels required for plane-of-window noise levels from road noise of less than (or equal to) 65 dBA. Since the predicted noise level impact at POR6 in Table 2-5 (once no-idling policy is considered) is only 49 dBA (impact reduces to 45 dBA if the influence of the PTAC units is removed), the recommendation for inoperable hotel room windows compliant with the OBC is believed to be reasonable.

Predicted mitigated noise impacts at each POR are summarized in Table 2-5, with the resulting noise level plot provided as Figure D3 and in Appendix D.

Table 2-5: Predicted Mitigated Noise Levels and Resulting Compliance Review – Non-Emergency Equipment (Generator Not Included)

POR No.	Location	POR Type	Predicted Noise Impact (dBA)	Noise Level Limit (dBA)	Compliant? (Y or N)
OLA1	51 Bermondsey Way (yard)	Residential	35	50	Y
OLA2	425 Culdaff Road (amenity)	Residential	40	50	Y
OLA3	2765 Palladium Drive (amenity)	Residential	29	50	Y
POR1	51 Bermondsey Way	Residential	35	45	Y
POR2	2030 Leinster Circle	Residential	19	45	Y
POR3	425 Culdaff Road	Residential	40	45	Y
POR4	2765 Palladium Drive	Residential	38	45	Y
POR5	Project Hotel 2nd Floor - NW	Commercial	42	45	Y
POR6	Project Hotel 4th Floor - NE	Commercial	49	45	Y[1]

[1] As discussed above in the section above, the recommendation for inoperable hotel room windows compliant with the OBC is believed to be a reasonable means of "on building" noise control (not accounted for in the CadnaA model result of 49 dBA). Therefore, compliance is expected to be achieved.

2.5.2 Emergency Equipment Only

For the emergency generator only, predicted noise impacts at each POR are summarized in Table 2-6, with the resulting noise level plot provided as Figures D4 in Appendix D.

Table 2-6: Predicted Noise Levels and Resulting Compliance Review – Emergency Equipment Only

POR No.	Location	POR Type	Predicted Noise Impact (dBA)	Noise Level Limit (dBA)	Compliant? (Y or N)
OLA1	51 Bermondsey Way (yard)	Residential	36	55	Y
OLA2	425 Culdaff Road (amenity)	Residential	47	55	Y
OLA3	2765 Palladium Drive (amenity)	Residential	59	55	N
POR1	51 Bermondsey Way	Residential	33	55	Y
POR2	2030 Leinster Circle	Residential	24	55	Y
POR3	425 Culdaff Road	Residential	49	55	Y
POR4	2765 Palladium Drive	Residential	63	55	N
POR5	Project Hotel 2nd Floor - NW	Commercial	25	55	Y
POR6	Project Hotel 4th Floor - NE	Commercial	43	55	Y

Based on the results above, for emergency equipment only, noise mitigation measures are required for POR4 and OLA3. For both locations, Englobe proposes the following mitigation recommendation:

- Specify a generator acoustical enclosure which meets a maximum of 67 dBA at 7m (measured for the worst-case load conditions for testing and maintenance purposes).

Predicted mitigated noise impacts at each POR are summarized in Table 2-7, with the resulting noise level plot provided as Figure D5 and in Appendix D.

Table 2-7: Predicted Mitigated Noise Levels and Resulting Compliance Review –Emergency Equipment Only

POR No.	Location	POR Type	Predicted Noise Impact (dBA)	Noise Level Limit (dBA)	Compliant? (Y or N)
OLA1	51 Bermondsey Way (yard)	Residential	28	55	Y
OLA2	425 Culdaff Road (amenity)	Residential	39	55	Y
OLA3	2765 Palladium Drive (amenity)	Residential	51	55	Y
POR1	51 Bermondsey Way	Residential	25	55	Y
POR2	2030 Leinster Circle	Residential	16	55	Y
POR3	425 Culdaff Road	Residential	41	55	Y
POR4	2765 Palladium Drive	Residential	55	55	Y
POR5	Project Hotel 2nd Floor - NW	Commercial	17	55	Y
POR6	Project Hotel 4th Floor - NE	Commercial	35	55	Y

3 PART 2: TRANSPORTATION CORRIDOR NOISE IMPACT

As per the City of Ottawa's ENCG [1], the following transportation corridor is assessed as part of this NIS due to its roadway classification and proximity to the Project:

— Highway 417

Of note, there are no rail corridors in proximity to the Project. Additionally, Palladium Drive, classified by the City of Ottawa as an arterial roadway, was not included as part of the NIS due to it being located outside of the 100m-or-less separation distance provided in the ENCG [1] for arterial roads (the Site Plan shows Palladium Drive as over 140m from the Project's noise sensitive hotel).

A site visit was undertaken by Englobe staff on 02 June, 2026 in order to identify potentially significant stationary noise sources impacting the Project. No significant stationary noise sources were identified during the site visit.

3.1 Source(s) – Road Traffic Parameters

Annual Average Daily Traffic (AADT) values for Highway 417 (classified as a "Provincial Highway" road type by the City of Ottawa's Transportation Master Plan) contained in Appendix B of the ENCG [1] were used for this NIS, along with the corresponding day/night traffic split and medium/heavy truck percentages, as summarized in Table 3-1, below.

Table 3-1: Road Traffic Data Summary

Road Segment	AADT	Day/Night %	Medium Trucks	Heavy Trucks	Speed Limit	Road Gradient
Highway 417 (Eastbound)	54,999	92 % / 8 %	7 %	5 %	110 km/h	0 %
Highway 417 (Westbound)	54,999	92 % / 8 %	7 %	5 %	110 km/h	0 %
Highway 417 Off-ramp (Eastbound)	18,333	92 % / 8 %	7 %	5 %	60 km/h	0 %
Highway 417 On-ramp (Eastbound)	18,333	92 % / 8 %	7 %	5 %	40 km/h	0 %

3.2 Critical Point(s) of Reception

Critical Points of Reception (POR) are receptors (located at the building's plane-of-window for this Project), which are most impacted by the transportation corridor noise sources identified in this NIS. For this Project, two critical PORs exist:

- Hotel sleeping quarters facing Highway 417 (facing northwest);
- Conference room (ground level of hotel, west side).

The POR locations are shown in Figure F1, Appendix F, and summarized in Table 3-2.

Table 3-2: Critical Point(s) of Reception - Transportation Corridor Noise

Point of Reception	Location Description	POR Estimated Height Above Grade (m)
POR A	Northwest façade of the hotel facing Highway 417 (near northernmost corner) on the 7th Floor.	19.5
POR B	Northwest façade of the hotel facing Highway 417 (near westernmost corner) on the Ground Floor.	1.5

3.3 Noise Level Criteria - Roads

The ENCG [1] provides guidelines for road traffic noise impacting sensitive developments, including noise level criteria.

3.3.1 Outdoor Noise Level Criterion

The ENCG [1] does not call for the evaluation of traffic noise impacting an outdoor amenity area associated with hotel developments.

3.3.2 Indoor Noise Level Criteria

The applicable indoor noise level criteria adopted by the ENCG [1] for road sources are given in Table 3-3, below. These are noise level limits contained in Table 2.2c of the ENCG [1].

Table 3-3: ENCG [1] Indoor Noise Level Limit - Road Noise

Type of Space	Time Period	Noise Level Limit ($L_{EQ(t)}$)
Conference Rooms	Daytime (07h00 to 23h00)	45 dBA
Sleeping Quarters of Hotels	Night-time (23h00 to 07h00 next day)	45 dBA

In addition to the noise level criteria shown in Table 3-3, the ENCG [1] indicates that noise control measures shall be developed according to NPC-300 [2]. The requirements pertaining to noise control measures given in NPC-300 [2] vary depending on the plane-of-window (outdoor) noise level, as shown in Table 3-4 and Table 3-5.

Table 3-4: NPC-300 [2] Minimum Ventilation and Warning Clause Requirements – Road Noise

Point of Assessment	Noise Level ($L_{EQ(t)}$)	Ventilation Requirements	Warning Clause
Conference Room plane-of-window[1] Daytime (07h00 to 23h00) AND Hotel Sleeping Quarters plane-of-window[1] Night-time (23h00 to 07h00 next day)	55 dBA < $L_{EQ(t)}$ ≤ 65 dBA	Forced-air heating with provision for central air conditioning	Type C
	65 dBA < $L_{EQ(t)}$	Central air conditioning	Type D

[2] Adapted from Section C7.1 of NPC-300 [2], using space types and relative noise level limits provided for supplementary noise level limits provided in Table 2.2b/c of the ENCG [1].

Table 3-5: NPC-300 [2] Minimum Building Component Requirements – Road Noise

Point of Assessment	Noise Level ($L_{EQ(t)}$)	Building Façade Requirements
Conference Room plane-of-window[1] Daytime (07h00 to 23h00) AND Hotel Sleeping Quarters plane-of-window[1] Night-time (23h00 to 07h00 next day)	$L_{EQ(t)}$ ≤ 65 dBA	Building façade constructions compliant with the Ontario Building Code (OBC)
	65 dBA < $L_{EQ(t)}$	Building façade constructions shall be designed such that the indoor noise level criteria are achieved

[1] Adapted from Section C7.1 of NPC-300 [2], using space types and relative noise level limits provided for supplementary noise level limits provided in Table 2.2b/c of the ENCG [1].

3.4 Noise Level Calculations

Noise level calculations were performed using TNM 3.1, the traffic noise prediction software package developed by US Federal Highway Administration and currently accepted by the MECP. The intermediate terrain between the sources and receivers was modelled as “field grass” in TNM.

Figure F1, Appendix F, shows the source-receiver distances and exposure angles for the POR. Calculation results are given in Table 3-6. Detailed results are provided in Appendix G.

Table 3-6: Calculated Noise Levels Due to Transportation Corridor Noise Sources

Point of Reception	Software Package Used	Calculated Sound Pressure Level (dBA) – Road Noise	
		Daytime (07h00 to 23h00)	Night-time (23h00 to 07h00)
POR A	TNM 3.1	N/A	53
POR B	TNM 3.1	50	N/A

3.5 Noise Control Recommendations – Transportation Corridors

Given the calculated noise levels in Table 3-6, noise control measures are recommended in order to comply with the noise level criteria given in Section 3.3. The noise control measures are discussed in the following section and summarized in Table 3-7.

Table 3-7: Summary of Recommended Noise Control Measures

Point of Reception	Noise Barrier?	Ventilation Requirements	Building Component Requirements	Warning Clause
POR A	N/A	None	Compliant with OBC	None
POR B	N/A	None	Compliant with OBC	None

3.5.1 Ventilation Requirements

Per Table 3-6, noise levels at POR A and B are expected to be below 55 dBA during night-time and daytime hours, respectively. Therefore, as outlined in Table 3-4, no ventilation or warning clause requirements are required for the proposed Project.

3.5.2 Building Component Requirements

Per Table 3-6, noise levels at POR A and B are expected to be less than (or equal to) 65 dBA during night-time and daytime hours, respectively. Therefore, as outlined in Table 3-5, building façade constructions (including exterior walls and windows) compliant with the OBC are expected to achieve the indoor noise levels required for all northwest-facing rooms.

4 CLOSURE

Based on a review of the information provided and the predicted noise levels, recommendations for noise mitigation measures have been made. With the implementation of the recommendations, we trust the foregoing will satisfy the requirements contained in the ENCG [1] and NPC-300 [2].

Yours very truly,

Englobe Corp.



Martin Villeneuve, *P.Eng.*
Senior Engineer - Acoustics

STATEMENT OF LIMITATIONS

The Statement of Limitations enclosed as Appendix H of this report forms an integral part of the Report.

5 REFERENCES

[1] “Environmental Noise Control Guideline ”, City of Ottawa, 2016-2017

[2] “Environmental Noise Guideline – Stationary and Transportation Sources – Approval and Planning”, Ontario Ministry of the Environment, Conservation and Parks, Publication NPC-300, August 2013 (Updated September 2021), PIBS 9588E

[3] “Acoustics – Attenuation of Sound During Propagation Outdoors – Part 2: General Method of Calculation”, ISO 9613-2:1996.

Appendix A:
Stationary Noise Source NIS Site and Process Figures

Figure A1: Project Location
Figure A2: Zoning Map



eNGLOBe

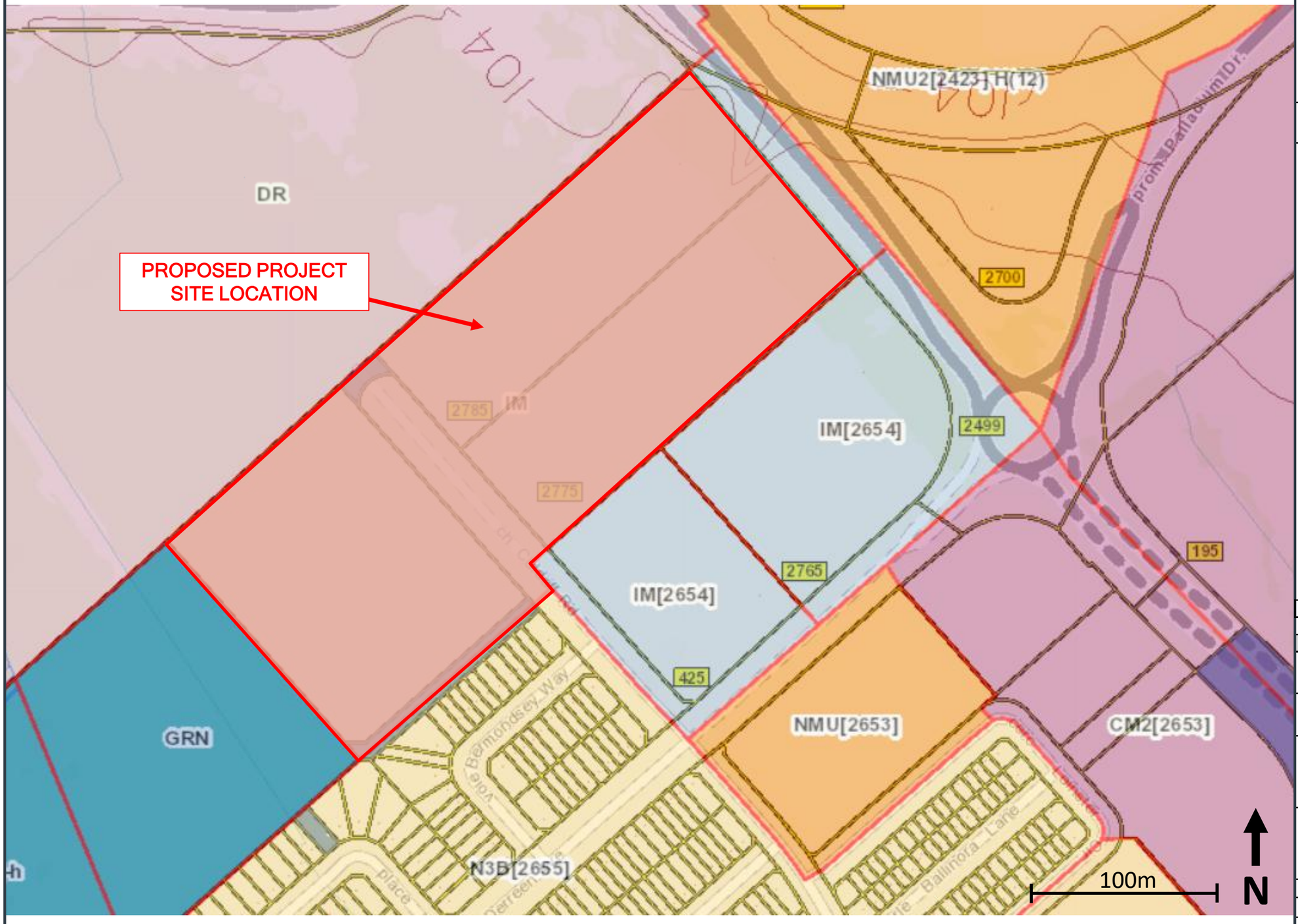
Note:
This drawing shall be read in conjunction with the associated report

REVISION	DATE	ISSUE	APPROVAL
1	2026/09/25	FINAL	M.V.
0	2026/06/25	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Project Location

Designed By		Scale	NTS
Drawn By	M.V.	Date	25 June 2026
Approved By		Project No.	02631107.000
Figure No.	A1		

Copyright © 2026 Englobe Corp



ENGLOBE

Note:
This drawing shall be read in conjunction with the associated report

Legend:

IM	Mixed Industrial Zone
NMU	Neighbourhood Mixed-Use Zone
CM	Minor Corridor Zone 2
N3B	Neighbourhood Zone 3
GRN	Greenspace Zone
DR	Development Reserve Zone

REVISION	DATE	ISSUE	APPROVAL
1	2026/09/25	FINAL	M.V.
0	2026/06/25	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Zoning Map

Designed By		Scale	NTS
Drawn By	M.V.	Date	25 June 2026
Approved By		Project No.	02631107.000
Figure No.	A2		

Copyright © 2026 Englobe Corp

Appendix B: Stationary Noise Source NIS Tables

Table B1: Noise Source Sound Power Level Summary Table



ENGLOBE

Subject: Noise Impact Study

Project Palladium Resort Development
2775 & 2785 Palladium Drive, Kanata, ON

Ref No: 02631107.000

Table B1: Noise Source Sound Power Level Summary Table

Source Description	Sound Power Level[a] [dB] at Full Octave Band Centre Frequency [Hz]								Lw(A)	Source Location[b]	Sound Characteristics [c]	Noise Control Measures [d]	Source of Data [e]
	63	125	250	500	1000	2000	4000	8000					
Delivery Trucks Idling	93.8	89.2	86.5	94.1	93.3	87.2	82.8	73.6	96	O	S	U	PP/Mea
Delivery Truck Movement	89.8	87.5	91.4	90.3	89.5	86.7	79.5	69.1	94	O	S	U	PP/Mea
Pool Dehumidification Air Handling Units (60,000 CFM)	83.0	78.0	84.0	74.0	72.0	63.0	52.0	57.0	78	O	S	U	Man/Cal
Rooftop Air Handling Units (5,000 CFM)	69.0	72.0	72.0	62.0	57.0	51.0	46.0	51.0	66	O	S	U	Man
Rooftop Air Handling Units (15,000 CFM)	77.0	72.0	78.0	68.0	66.0	57.0	46.0	51.0	72	O	S	U	Man
Kitchen Exhaust Fans	68.8	77.8	71.8	72.8	69.8	64.8	58.8	59.8	75	O	S	U	Man
General Exhaust Fans	67.5	76.5	70.5	71.5	68.5	63.5	57.5	58.5	73	O	S	U	Man
Packaged Terminal Air Conditioners (PTAC)	69.5	58.5	56.5	54.5	54.5	50.5	41.5	30.5	58	O	S	U	Man
Emergency Generator	113.1	115.0	97.5	93.1	84.9	80.7	77.9	73.0	100	O	S	E	Man

GLOSSARY:

[a] Sound power levels of noise sources do not include sound characteristic adjustments per NPC-104. Values are unadjusted, unmitigated PWLs.

[b] Source location:
- O - located/installed outside the building, including on the roof
- I - located/installed inside the building

[c] Sound characteristic. (NOTE: applicable penalties, such as a 5 dB penalty for tonality, is not included in the sound power levels given in Table A-2. Penalty is added in the CadnaA model)
- S = Steady
- I = impulsive
- T=Tonal
- Q = Quasi-Steady Impulsive
- B = Buzzing
- C = Cyclic

[d] Existing noise control measures
- S = Silencer/Muffler
- L = Lagging
- O = other
- A = Acoustic lining, plenum
- E = acoustic enclosure
- U = uncontrolled
- B = Barrier, berm, screening

[e] Source of data
- Mea = Measured
- Man = Manufacturer's Data
- Cal = Engineering Calculations
- PP = Past Project

Appendix C:
Manufacturer Noise Level Data

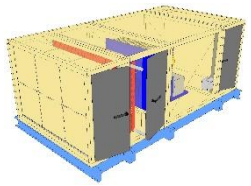


ENGLOBE

Technical Data Sheet

5,000 CFM AHU

Job Information	Technical Data Sheet
Job Name	
Date	
Submitted By	
Software Version	
Unit Tag	



Unit Overview

Model Number	Supply					
	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH014GHGM	6300	1.00	2.89	46*	64*	124

**Not including base rails, coil connectors, drain connectors and control boxes.*

Unit

Model Number:	CAH014GHGM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	Painted 24 gauge G60 Galvanized Steel		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	**Drive (Handling) Location:**	Right
Base:	6" formed channel	**Wall Thickness:**	2 in
Shipping Stretch Wrap:	Yes	**Altitude:**	0 ft
Parts Warranty:	Standard One Year		

Combination Filter

Component: 1 | Length: 22 in | Shipping Section: 1

Access	Face Velocity	Face Area	Air Volume
Side	403 ft/min	15.6 ft²	6300 cfm

Portion	Type	Efficiency	Air Pressure Drop			Number of Filters	Height	Width	Depth
			Clean Air	Mean Air	Dirty Air				
Pre-Filter	Pleated	MERV 8	0.17 inWc	**0.59** inWc	1.00 inWc	6	20 in	20 in	2 in
Filter	Varicel SH cartridge	MERV 13	0.41 inWc	**0.95** inWc	1.50 inWc	6	20 in	20 in	12 in

Door

Location	Width	Opening
Drive side	18 in	Outward

Special Options

Filter Gauge

Magnehelic 0-5"

Technical Data Sheet

Hot Water Coil	Component: 2	Length: 30 in	Shipping Section: 2

Coil Model	Total Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)
5WL1003B	613651 Btu/hr	1	3	10	0.625 in	1.50 in x 1.299 in

Air Volume	Air Temperature		Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering Dry Bulb	Leaving Dry Bulb					
6300 cfm	-20.0 °F	69.1 °F	0.28 inWc	36 in	51 in	12.75 ft²	494 ft/min

Fluid		Flow Rate	Pressure Drop	Velocity	Volume	Weight
Entering	Leaving					
130.0 °F	109.9 °F	68.50 gpm	19.60 ftHd	4.10 ft/s	6.0 gal	54.00 lb

Connection [Data Per Coil]				Glycol Type	Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor
Type	Size	Location	Material				
Threaded	1.50 in	Drive side	Carbon steel	Propylene (50%)	109.9 °F	109.9 °F	0.000

Material				Turbospiral
Fin	Tube	Header	Case	
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel	Yes

AHRI 410 Certification

Coil is NOT certified by AHRI

Door

Location	Width	Opening
Drive side	18 in	Outward

Supply Fan	Component: 3	Length: 48 in	Shipping Section: 3

Fan Performance

Air Volume	Static Pressure			Brake Horsepower	Speed		Outlet Velocity
	External	Total	Cabinet		Operating	Maximum	
6300 cfm	1.00 inWc	2.89 inWc	0.00 inWc	4.40 BHP	1563 rpm	2403 rpm	0 ft/min

Fan Data

Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Material Type	Number of Blades	Discharge	Motor Location
Centrifugal - Plenum	Airfoil / 2	1	22.25 in	Aluminum	9	Axial	Behind Fan

Motor Data

Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current
7.5 HP	575/60/3 V/Hz/Phase	1750 rpm	Premium	TEFC	213 T frame	Generic	4	51.20 A	7.60 A

Fan Options

Wheel Guard:	Provided	Seismic Restraint:	With snubbers
Inlet Screen:	Provided	Shaft Grounding Kit:	Provided
Isolator Type:	Spring		

VFD/Starter/Disconnect Data

Selection Type:	External J-Box	Vendor:	Factory Standard
Voltage:	575 V	Height x Width x Depth:	6.00 in x 6.00 in x 4.00 in
Mounting:	Door Side	Enclosure:	NEMA 1

Panel

Location	Width	Opening
Removable panels	- in	Outward

Technical Data Sheet

Plenum Section	Component: 4	Length: 24 in	Shipping Section: 4

Air Pressure Drop
0.07 inWc

Custom Openings

Custom Opening	Location	Width	Height	Rainhood w/Screen
1	Top	42 in	20 in	None

Door

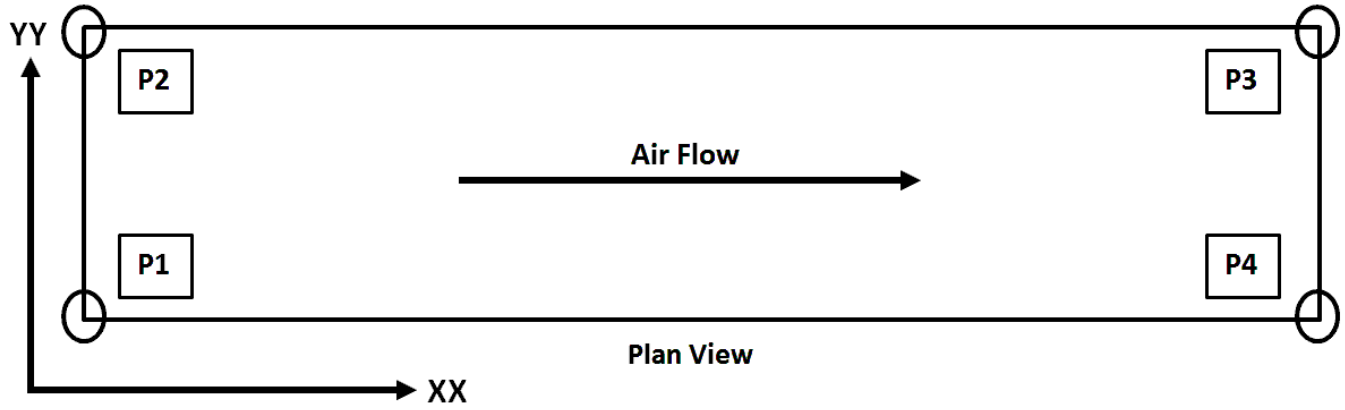
Location	Width	Opening
Drive side	20 in	Inward

Unit Sound Power (dB)

Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	69	72	72	62	57	51	46	51
Unit Discharge:	74	72	79	73	73	73	67	60
Unit Return:	74	79	85	77	69	63	52	51

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	22	344	80	80	92	92	12	32	25
2	30	517	164	155	94	104	11	31	25
3	48	774	216	212	171	175	21	32	22
4	24	256	64	64	64	64	12	32	23
Entire Unit	**124**	**1891**	**521**	**508**	**425**	**438**	**57**	**32**	**23**



NOTE: Special components aren't included in the corner weights and center of gravity data.

AHRI Certification

Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

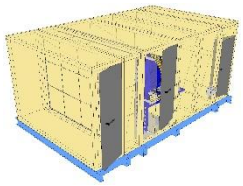
Notes

Standard

1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2013. The approving authority is responsible for compliance of multi - component building systems.

Technical Data Sheet 15,000 CFM AHU

Job Information	Technical Data Sheet
Job Name	
Date	
Submitted By	
Software Version	
Unit Tag	



Unit Overview

Model Number	Supply					
	Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
CAH032GDGM	15000	2.00	4.50	66*	92*	154

**Not including base rails, coil connectors, drain connectors and control boxes.*

Unit

Model Number:	CAH032GDGM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	Painted 24 gauge G60 Galvanized Steel		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	**Drive (Handling) Location:**	Right
Base:	6" formed channel	**Wall Thickness:**	2 in
Shipping Stretch Wrap:	Yes	**Altitude:**	0 ft
Parts Warranty:	Standard One Year		

Access Section

Access Section	Component: 1	Length: 24 in	Shipping Section: 1

Air Pressure Drop
0.00 inWc

Door		
Location	**Width**	**Opening**
Drive side	20 in	Outward

Combination Filter

Combination Filter	Component: 2	Length: 16 in	Shipping Section: 2

Access	Face Velocity	Face Area	Air Volume
Front	480 ft/min	31.3 ft²	15000 cfm

Portion	Type	Efficiency	Air Pressure Drop			Number of Filters	Height	Width	Depth
			Clean Air	Mean Air	Dirty Air				
Pre-Filter	Pleated	MERV 8	0.22 inWc	**0.61** inWc	1.00 inWc	12	20 in	20 in	2 in
Filter	Varicel SH cartridge	MERV 13	0.53 inWc	**1.01** inWc	1.50 inWc	12	20 in	20 in	12 in

Special Options
Filter Gauge
Magnehelic 0-5"

Technical Data Sheet

Chilled Water Coil	Component: 3	Length: 36 in	Shipping Section: 3

Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)
5WH1004C	428240 Btu/hr	341424 Btu/hr	2	4	10	0.625 in	1.50 in x 1.299 in

Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
15000 cfm	75.0 °F	63.0 °F	54.2 °F	53.2 °F	0.78 inWc	27 in	79 in	29.63 ft²	506 ft/min

Water		Flow Rate	Pressure Drop	Velocity	Volume	Weight
Entering	Leaving					
44.0 °F	54.1 °F	84.50 gpm	18.60 ftHd	5.00 ft/s	16.0 gal	141.00 lb

Connection [Data Per Coil]				Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor
Type	Size	Location	Material			
Threaded	1.50 in	Drive side	Carbon steel	44.0 °F	44.0 °F	0.000

Material				Drain Pan	Drain Side
Fin	Tube	Header	Case		
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel	Stainless steel	Drive side

AHRI 410 Certification

Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at www.ahridirectory.org

Door

Location	Width	Opening
Drive side	20 in	Outward

Supply Fan	Component: 4	Length: 54 in	Shipping Section: 4

Fan Performance

Air Volume	Static Pressure			Brake Horsepower	Speed		Outlet Velocity
	External	Total	Cabinet		Operating	Maximum	
15000 cfm	2.00 inWc	4.50 inWc	0.00 inWc	17.36 BHP	1802 rpm	1981 rpm	0 ft/min

Fan Data

Fan Type	Blade Type / Class	Quantity of Fans	Wheel Diameter	Material Type	Number of Blades	Discharge	Motor Location
Centrifugal - Plenum	Airfoil / 2	1	27.00 in	Aluminum	9	Axial	Behind Fan

Motor Data

Power	Electrical Supply	Speed	Efficiency	Enclosure	Frame Size	Supplier	Number of Poles	Lock Rotor Current	Full Load Current
20.0 HP	575/60/3 V/Hz/Phase	1750 rpm	Premium	TEFC	256 T frame	Generic	4	116.00 A	19.20 A

Fan Options

Wheel Guard:	Provided	Seismic Restraint:	With snubbers
Inlet Screen:	Provided	Shaft Grounding Kit:	Provided
Isolator Type:	Spring		

VFD/Starter/Disconnect Data

Selection Type:	External J-Box	Vendor:	Factory Standard
Voltage:	575 V	Height x Width x Depth:	6.00 in x 6.00 in x 4.00 in
Mounting:	Door Side	Enclosure:	NEMA 1

Panel

Location	Width	Opening
Removable panels	- in	Outward

Technical Data Sheet

Plenum Section	Component: 5	Length: 24 in	Shipping Section: 5

Air Pressure Drop
0.09 inWc

Custom Openings

Custom Opening	Location	Width	Height	Rainhood w/Screen
1	Top	88 in	20 in	None

Door

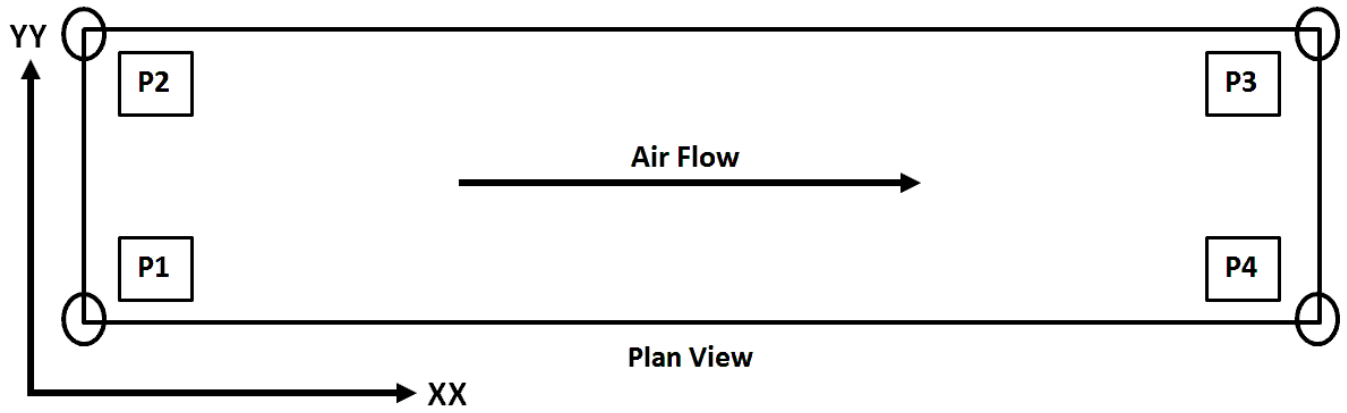
Location	Width	Opening
Drive side	20 in	Inward

Unit Sound Power (dB)

Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	77	72	78	68	66	57	46	51
Unit Discharge:	82	77	86	83	82	79	77	69
Unit Return:	78	77	89	75	71	67	58	51

Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	24	375	85	85	103	103	13	46	28
2	16	640	151	151	169	169	8	46	33
3	36	1209	397	380	207	225	13	45	32
4	54	1384	361	357	331	335	26	46	29
5	24	429	107	107	107	107	12	46	29
Entire Unit	**154**	**4037**	**1082**	**1061**	**936**	**958**	**72**	**46**	**30**



NOTE: Special components aren't included in the corner weights and center of gravity data.

AHRI Certification

Supply fan performance is certified in accordance with the Central Station Air-Handling Unit Certification Program, which is based on AHRI Standard 430.

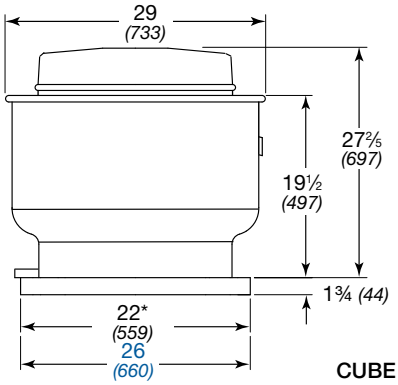
Notes

Standard

1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2013. The approving authority is responsible for compliance of multi - component building systems.

Roof Upblast/Sidewall Exhaust
Size-160: CUBE • CUE • USGF

ENGLOBE NOTE: MECH DESIGN BRIEF FOR TEXAS PROJECT LISTED 25 SONES (APPROX. 74dBA). USED 74 dBA IN MODEL.



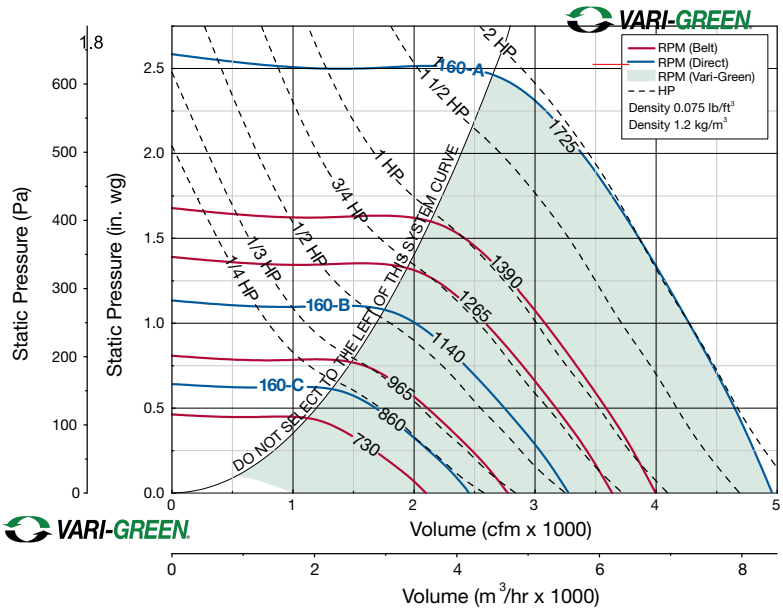
CUBE • CUE • USGF

Direct Drive RPM

C-860 RPM
B-1140 RPM
A-1725 RPM
VG-1725 RPM

All dimensions in inches *(millimeters)*, weight in pounds *(kilograms)*.
^Weight shown is largest cataloged open drip-proof motor.

With Standard Curb Cap*	CUBE	CUE	USGF
^Approximate Weight	87 *(39)*	90 *(41)*	131 *(59)*
Damper Size	16 x 16 *(406 x 406)*		N/A
Roof/Wall (without wall bracket) Opening	18½ x 18½ *(470 x 470)*		
Wall Opening with Wall Bracket	18 x 18 *(457 x 457)*		N/A
Wall Opening with a Curb Through Wall	22 x 22 *(559 x 559)*		N/A
* Additional curb cap sizes available, see page 2			N/A



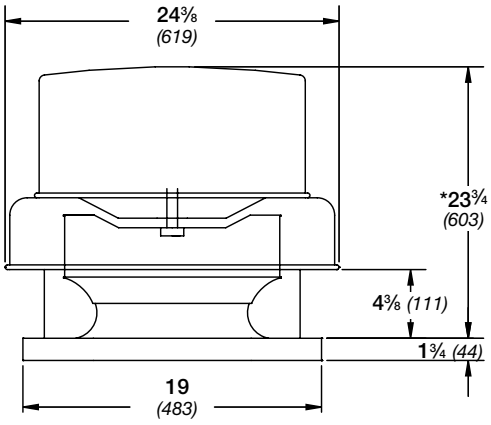
Motor HP			Fan		Static Pressure in Inches wg									
Belt	Direct		RPM		0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.5
160														
1/4	VG-1/2		730	CFM	2098	1905	1669	1389						
				BHP	0.13	0.15	0.15	0.15						
				Sones	8.1	8	7.8	7.8						
			805	CFM	2314	2143	1937	1708	1396					
				BHP	0.18	0.20	0.20	0.20	0.19					
				Sones	9.5	9.2	8.9	8.8	8.7					
		C-1/4	860	CFM	2472	2315	2126	1918	1680					
				BHP	0.22	0.24	0.25	0.25	0.24					
				Sones	10.7	10.2	9.9	9.7	9.5					
			875	CFM	2515	2362	2177	1974	1744	1365				
				BHP	0.23	0.26	0.26	0.26	0.26	0.24				
				Sones	11	10.6	10.1	9.9	9.7	9.7				
1/3			965	CFM	2774	2637	2477	2300	2109	1893	1584			
				BHP	0.31	0.34	0.35	0.35	0.35	0.34	0.33			
				Sones	12.4	12	11.5	11.2	10.8	10.6	10.6			
1/2	VG-3/4		1110	CFM	3191	3072	2941	2796	2641	2475	2297	1770		
				BHP	0.47	0.51	0.53	0.53	0.54	0.53	0.52	0.49		
				Sones	15	14.6	14.2	13.8	13.5	13.1	12.9	12.5		
3/4		B-1/2	1140	CFM	3277	3161	3035	2896	2745	2587	2421	1983		
				BHP	0.51	0.55	0.57	0.57	0.58	0.58	0.57	0.55		
				Sones	15.7	15.2	14.8	14.4	14.1	13.8	13.5	13.2		
	VG-1		1265	CFM	3636	3532	3426	3301	3172	3036	2894	2583	2163	
				BHP	0.70	0.74	0.77	0.78	0.79	0.79	0.79	0.78	0.75	
				Sones	18.5	18.1	17.6	17.2	16.8	16.5	16.3	15.8	15.6	
1			1300	CFM	3737	3636	3534	3413	3290	3157	3022	2729	2357	
				BHP	0.76	0.80	0.84	0.85	0.85	0.86	0.86	0.84	0.82	
				Sones	19.1	18.7	18.3	17.9	17.5	17.2	17	16.5	16.3	
	VG-2		1390	CFM	3996	3901	3806	3698	3584	3464	3340	3078	2785	2394
				BHP	0.93	0.97	1.01	1.03	1.04	1.04	1.05	1.04	1.03	1.00
				Sones	21	21	20	19.7	19.3	19	18.8	18.4	18	17.9
		A-2	1725	CFM	4959	4882	4806	4729	4646	4554	4463	4269	4070	3855
				BHP	1.77	1.83	1.88	1.94	1.97	1.97	1.98	2.00	2.01	1.99
				Sones	30	29	29	29	28	28	27	27	27	26

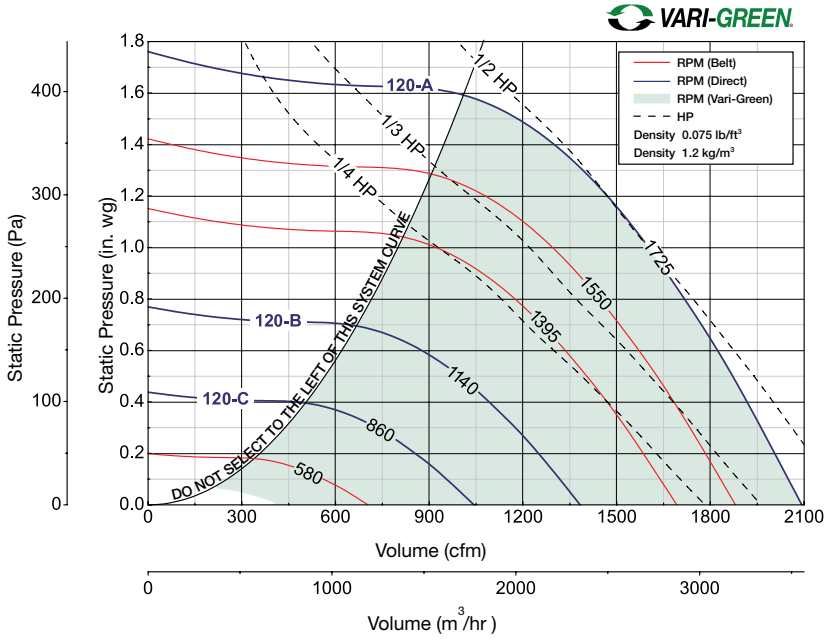
MAXIMUM BHP AT A GIVEN RPM = (RPM/1365)³
MAXIMUM RPM = 1725
TIP SPEED (ft/min) = RPM x 4.352
MAXIMUM MOTOR FRAME SIZE = 145T
AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical sone levels.

Roof Downblast Exhaust
Size-120: GB • G
Previously Size- GB-121 • G-123

ENGLOBE NOTE: MECH DESIGN BRIEF FOR TEXAS PROJECT LISTED 23 SONES (APPROX. 73dBA). USED 73 dBA IN MODEL.





Damper Size = 12 x 12 *(305 x 305)*
Roof Opening = 15½ x 15½ *(394 x 394)*
Shroud Thickness = 0.051 *(1.3)*
Motor Cover Thickness = 0.040 *(1.0)*
Curb Cap Thickness = 0.064 *(1.6)*
^Approximate Unit Weight G/GB = 58/66 lbs. *(26/30 kg)*

All dimensions in inches *(millimeters)*. *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor.

Direct Drive RPM

C-860 RPM	B-1140 RPM	A-1725 RPM	VG-1725 RPM

Motor HP Belt	Motor HP Direct		Fan RPM		Static Pressure in Inches wg 0	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5
120														
1/4	VG-1/4		580	CFM	704	515								
				BHP	0.02	0.02								
				Sones	3.2	3.3								
			720	CFM	873	735	523							
				BHP	0.03	0.04	0.04							
				Sones	4.2	4.3	4.1							
	VARI-GREEN	C-1/8	860	CFM	1043	932	796	580						
				BHP	0.05	0.06	0.06	0.06						
				Sones	5.4	5.5	5.2	5.2						
			1000	CFM	1213	1119	1013	883	694					
				BHP	0.08	0.09	0.09	0.10	0.09					
				Sones	6.7	6.8	6.7	6.4	6.4					
		B-1/6	1140	CFM	1383	1300	1213	1112	993	831				
				BHP	0.12	0.13	0.14	0.14	0.14	0.14				
				Sones	8.4	8.4	8.4	8.1	7.9	7.8				
	VG-1/2		1265	CFM	1535	1460	1384	1299	1204	1093	950			
				BHP	0.16	0.17	0.18	0.19	0.19	0.20	0.19			
				Sones	10.2	10.1	10.1	9.9	9.7	9.6	9.4			
			1395	CFM	1692	1625	1557	1484	1404	1315	1214	907		
				BHP	0.21	0.23	0.24	0.25	0.26	0.26	0.26	0.24		
				Sones	12.5	12.4	12.3	12.2	12.0	11.7	11.5	11.3		
1/3			1475	CFM	1789	1726	1661	1594	1521	1441	1356	1132		
				BHP	0.25	0.27	0.28	0.29	0.30	0.31	0.31	0.31		
				Sones	13.5	13.4	13.3	13.2	13.0	12.7	12.4	12.0		
			1550	CFM	1880	1820	1759	1696	1629	1555	1475	1289	974	
				BHP	0.29	0.31	0.32	0.33	0.34	0.35	0.36	0.36	0.33	
				Sones	14.6	14.5	14.3	14.2	14.0	13.8	13.5	12.9	12.4	
1/2			1635	CFM	1983	1926	1868	1810	1747	1680	1608	1446	1231	
				BHP	0.34	0.36	0.37	0.39	0.40	0.41	0.42	0.43	0.41	
				Sones	15.9	15.8	15.6	15.4	15.3	15.0	14.8	13.9	13.4	
		A-1/2	1725	CFM	2093	2038	1984	1928	1871	1810	1743	1600	1426	1180
				BHP	0.40	0.42	0.44	0.45	0.46	0.47	0.48	0.50	0.50	0.47
				Sones	17.4	17.2	17.0	16.8	16.7	16.4	16.2	15.5	14.9	14.0

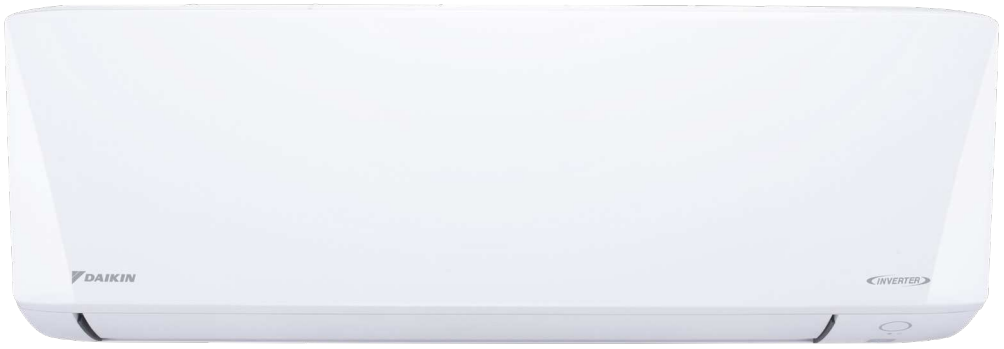
MAXIMUM BHP AT A GIVEN RPM = (RPM/2170)³
MAXIMUM RPM = 1725
TIP SPEED (ft/min) = RPM x 3.420
MAXIMUM MOTOR FRAME SIZE = 56

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.

ENGINEERING DATA

Inverter Split Unit Air Conditioner
Wall Mounted
Heatpump [60Hz]

FTXB-B Series



R410A

ED5WM15R-NA23V2

Supersede : ED5WM15R-NA23V1

Specifications

PTAC Units

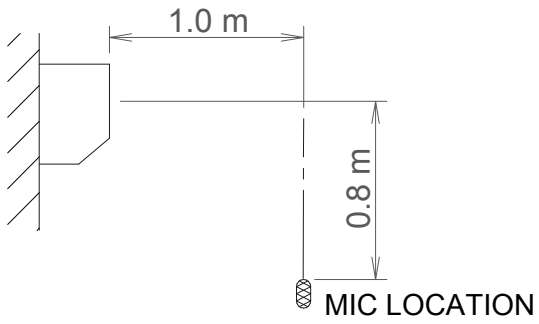
MODEL	INDOOR UNIT		FTXB09B	
	OUTDOOR UNIT		RXB09B	
			Cooling	Heating
Rated Capacity (Min. ~ Max.)		kW	2.57 (1.30 - 3.00)	2.75 (1.30 - 3.80)
		Btu/h	8800 (4400 - 10200)	9400 (4400 - 13000)
Moisture Removal		gal/h	0.09	
Rated Running Current		A	3.82	3.70
Rated Power Consumption		W	800	774
EER2		Btu/h/W	11.0	N/A
SEER2			18.0	N/A
COP		W/W	N/A	3.56
HSPF2			N/A	9.0
Power Factor (Rated)			N/A	
Piping Connections	Liquid	inch (mm)	1/4" (6.35)	
	Gas	inch (mm)	3/8" (9.52)	
Refrigerant	Type		R410A	
	Charge	lbs (kg)	1.54 (0.7)	
Max. Interunit Piping Length		ft (m)	65-5/8 (20)	
Max. Interunit Height Difference		ft (m)	32-13/16 (10)	
Chargeless		ft (m)	32-13/16 (10)	
Amount of Additional Charge of Refrigerant		oz/ft (g/m)	0.21 (20)	
Drawing No.			3D143694C	
INDOOR UNIT			FTXB09B	
Front Panel Colour			WHITE	
Airflow Rate	Turbo	CFM	466	
	High	CFM	431	402
	Medium	CFM	322	
	Low	CFM	249	
	Quiet	CFM	142	219
Sound Pressure Level (H/M/L/Q)		dBA	43/36/29/19	42/35/29/25
Fan	Type		CROSS FLOW	
	Drive		DIRECT	
	Speed		3 STEPS, QUIET, AUTO, TURBO	
Fan Motor	Type		DIRECT CURRENT	
	Motor Output	W	22	
	Running Current (Rated)	A	0.10	
	Power Consumption (Rated)	W	29	
Air Direction Control			UP, DOWN, LEFT, RIGHT	
Air Filter			CATECHIN	
Dimensions (H x W x D)		inch (mm)	11-1/3 x 30-5/16 x 9-3/16 (288 x 770 x 234)	
Packaged Dimensions (H x W x D)		inch (mm)	13-7/8 x 32-3/4 x 12-3/8 (350 x 830 x 314)	
Weight		lbs (kg)	20.3 (9.2)	
Gross Weight		lbs (kg)	24.7 (11.2)	
Condensate Drain Size		inch (mm)	5/8 (16)	
Document No.			3D143550B	
OUTDOOR UNIT			RXB09B	
Casing Colour			IVORY WHITE	
Airflow Rate	High	CFM	1083	1103
Sound Pressure Level		dBA	46	48
Fan	Type		PROPELLER	
	Drive		DIRECT	
Fan Motor	Type		DIRECT CURRENT	
	Index of protection (IP)		24	
	Insulation Grade		E	
	Running Current (Rated)	A	0.60	
	Power Consumption (Rated)	W	32	
	Motor Output	W	26	
	Poles		8	
Compressor	Type		HERMETIC SWING	
	Model		1YC23AUXDA	
	Oil type		DAPHNE FVC50K	
	Oil amount	oz (cm^3)	12.4 (375)	
Heat Exchanger Type			FIN TUBE	
Dimensions (H x W x D)		inch (mm)	21-11/16 x 26-1/2 x 11-3/16 (550 x 675 x 284)	
Packaged Dimensions (H x W x D)		inch (mm)	24-1/64 x 31-3/8 x 15-1/8 (610 x 801 x 384)	
Weight		lbs (kg)	55 (25)	
Gross Weight		lbs (kg)	62 (28)	
Document No.			3D143595A	

1) ALL UNITS ARE BEING TESTED ACCORDING TO AHRI 210/240 STANDARD.
2) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

COOLING	HEATING
INDOOR: 80°FDB (26.7°CDB) / 67°FWB (19.4°CWB)	INDOOR: 70°FDB (21.1°CDB)
OUTDOOR: 95°FDB (35°CDB)	OUTDOOR: 47°FDB (8.3°CDB) / 43°FWB(6.1°CWB)

Sound Level

Measuring Location

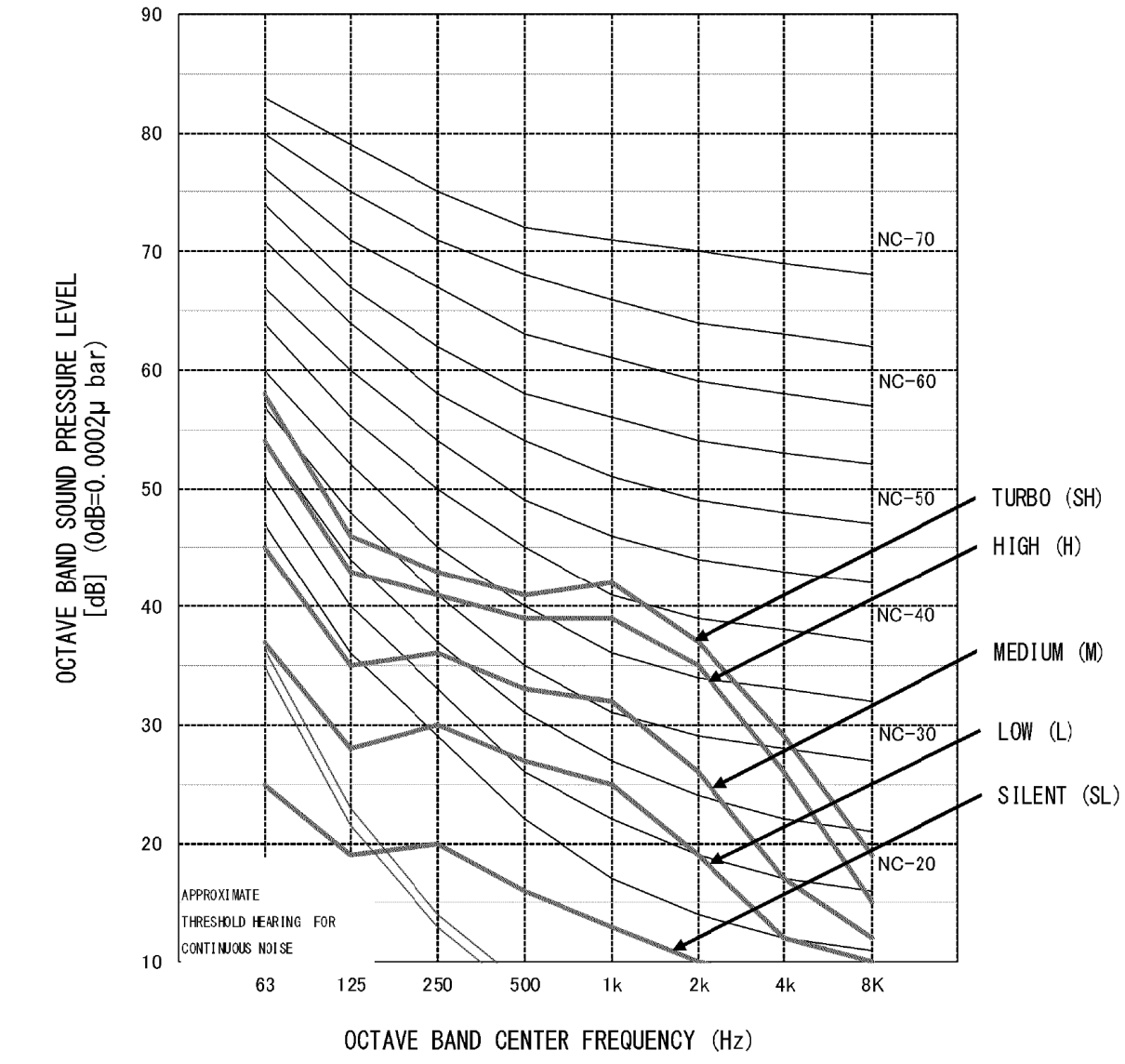
Model	Measuring Location
FTXB09B **FTXB12B** **FTXB18B** **FTXB24B**	

Notes:
1. Operation sound is measured in an anechoic chamber.

Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)								Overall (dBA)	Noise Criteria
		63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FTXB09B (Cooling)	High	54	43	41	39	39	35	26	15	43	38
	Med	45	35	36	33	32	26	17	12	36	31
	Low	37	28	30	27	25	19	12	10	29	23
	Quiet	25	19	20	16	13	10	8	9	19	0

NC Curve



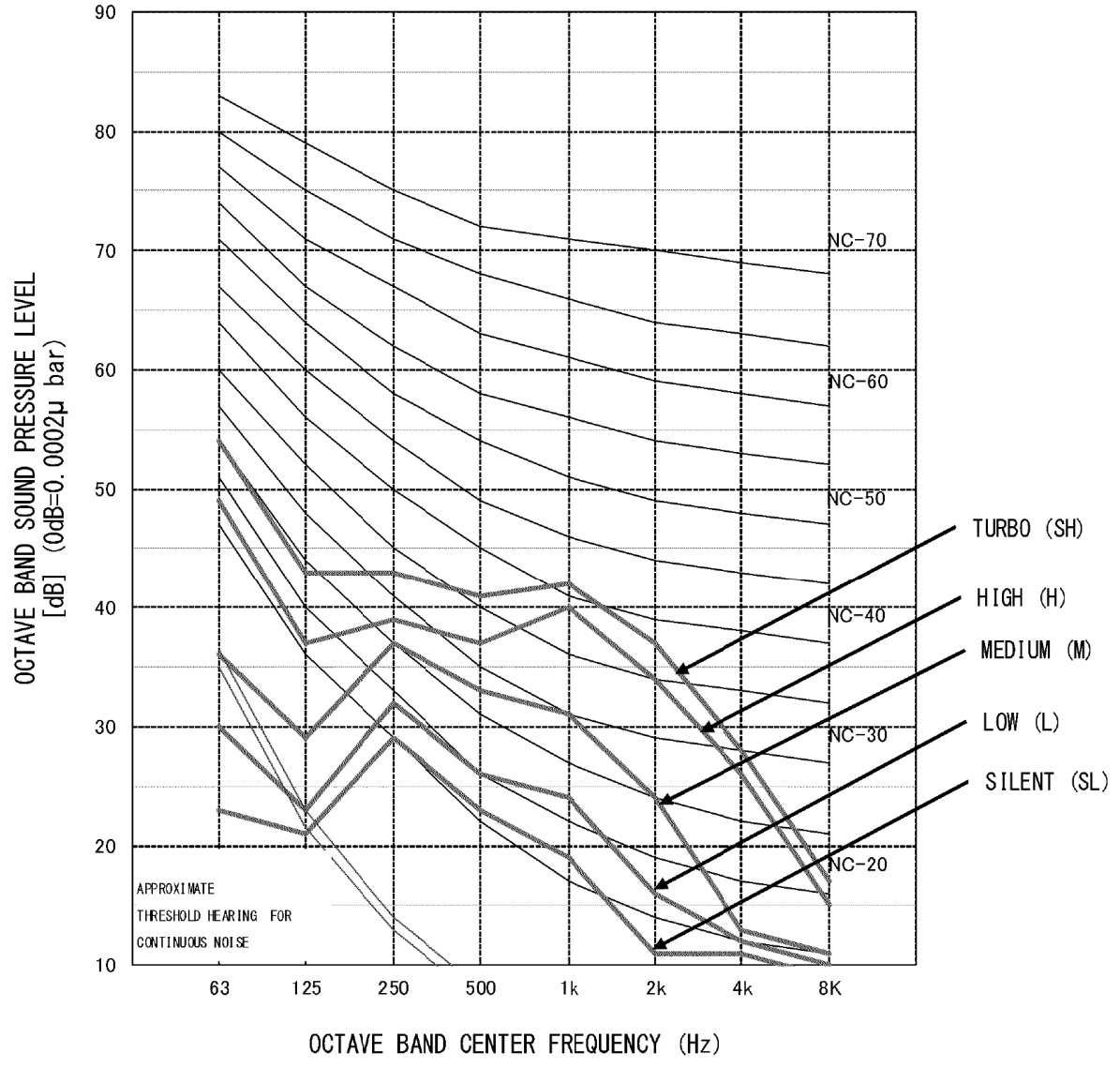
Note : SILENT (SL) is equivalent to QUIET (Q)

3D143480

Sound Pressure Level

Model	Speed	1/1 Octave A-weighted Sound Pressure Level (dB, ref 20μPa)								Overall (dBA)	Noise Criteria
		63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FTXB09B (Heating)	High	49	37	39	37	40	34	26	15	42	39
	Med	36	29	37	33	31	24	13	11	35	30
	Low	30	23	32	26	24	16	12	10	29	22
	Quiet	23	21	29	23	19	11	11	9	25	17

NC Curve



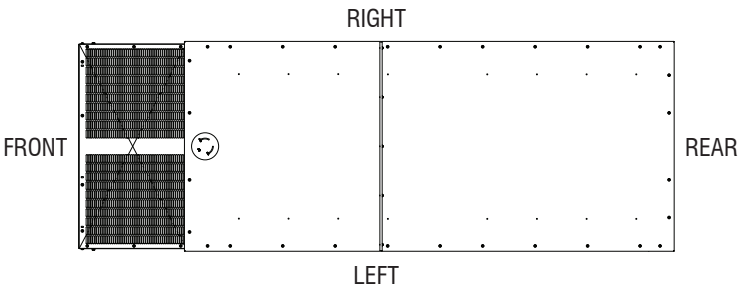
Note : SILENT (SL) is equivalent to QUIET (Q)

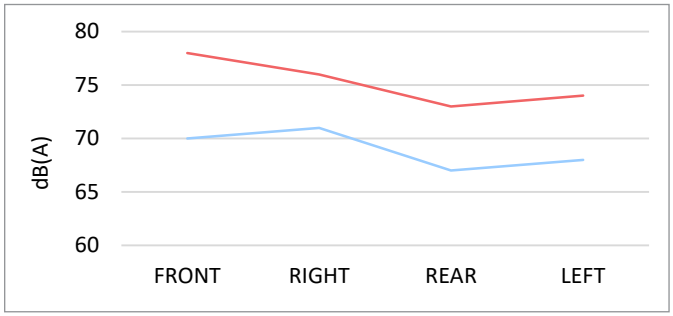
3D143480

LEVEL 2 SOUND ATTENUATED ENCLOSURE
D6.7L FPT, SD150

	60Hz NO-LOAD, dB(A)									DISTANCE: 7 METERS
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	dB(A)
FRONT	32	52	63	62	67	60	59	55	47	**70**
RIGHT	30	50	62	61	68	58	58	54	47	**71**
REAR	31	56	59	60	63	57	54	49	42	**67**
LEFT	31	54	60	61	64	59	56	55	49	**68**
AVERAGE	**31**	**53**	**61**	**61**	**65**	**59**	**57**	**53**	**46**	**69**

	60Hz FULL-LOAD, dB(A)									DISTANCE: 7 METERS
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	dB(A)
FRONT	33	64	77	67	69	61	58	55	48	**78**
RIGHT	33	62	75	61	67	61	60	55	48	**76**
REAR	35	63	71	63	63	60	54	49	44	**73**
LEFT	33	61	73	65	63	59	57	56	49	**74**
AVERAGE	**33**	**62**	**74**	**64**	**65**	**60**	**57**	**54**	**47**	**75**





- All positions at 23 feet (7 meters) from side faces of generator set.
- Test conducted on a 100 foot diameter asphalt surface.
- Sound pressure levels are subject to instrumentation, installation and testing conditions.
- Sound levels are ±2 dB(A).

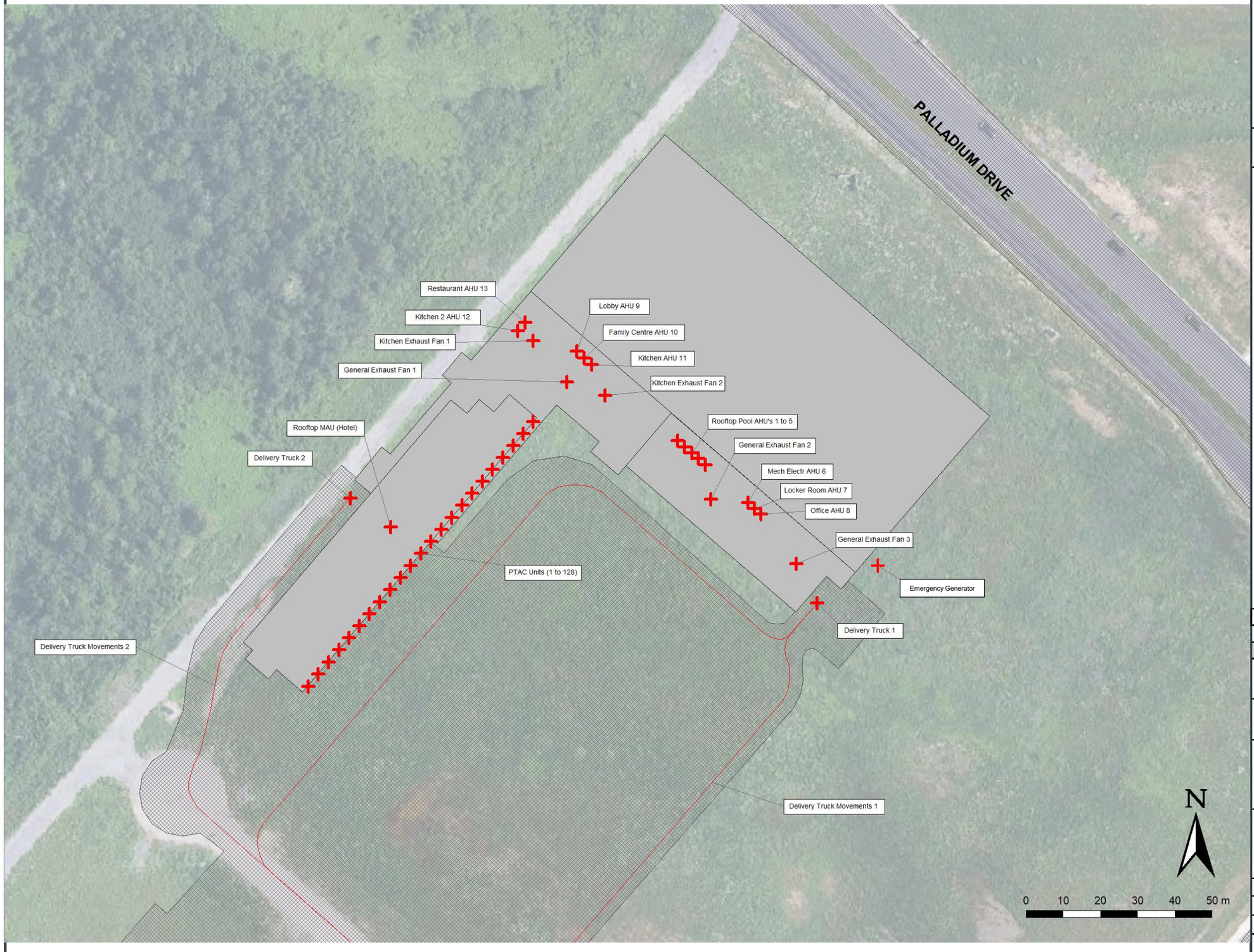
 © 2020 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

Appendix D:
CadnaA Model Figures

Figure D1: Estimated Location of Noise Sources
Figure D2: Predicted Noise Levels at 4.5m Above Grade – Non-Emergency Equipment
Figure D3: Predicted Noise Levels at 4.5m Above Grade – Non-Emergency Equipment w/ No-Idling Policy
Figure D4: Predicted Noise Levels at 4.5m Above Grade – Emergency Equipment Only
Figure D5: Predicted Noise Levels at 4.5m Above Grade – Emergency Equipment Only (67dBA at 7m)



ENGLOBE



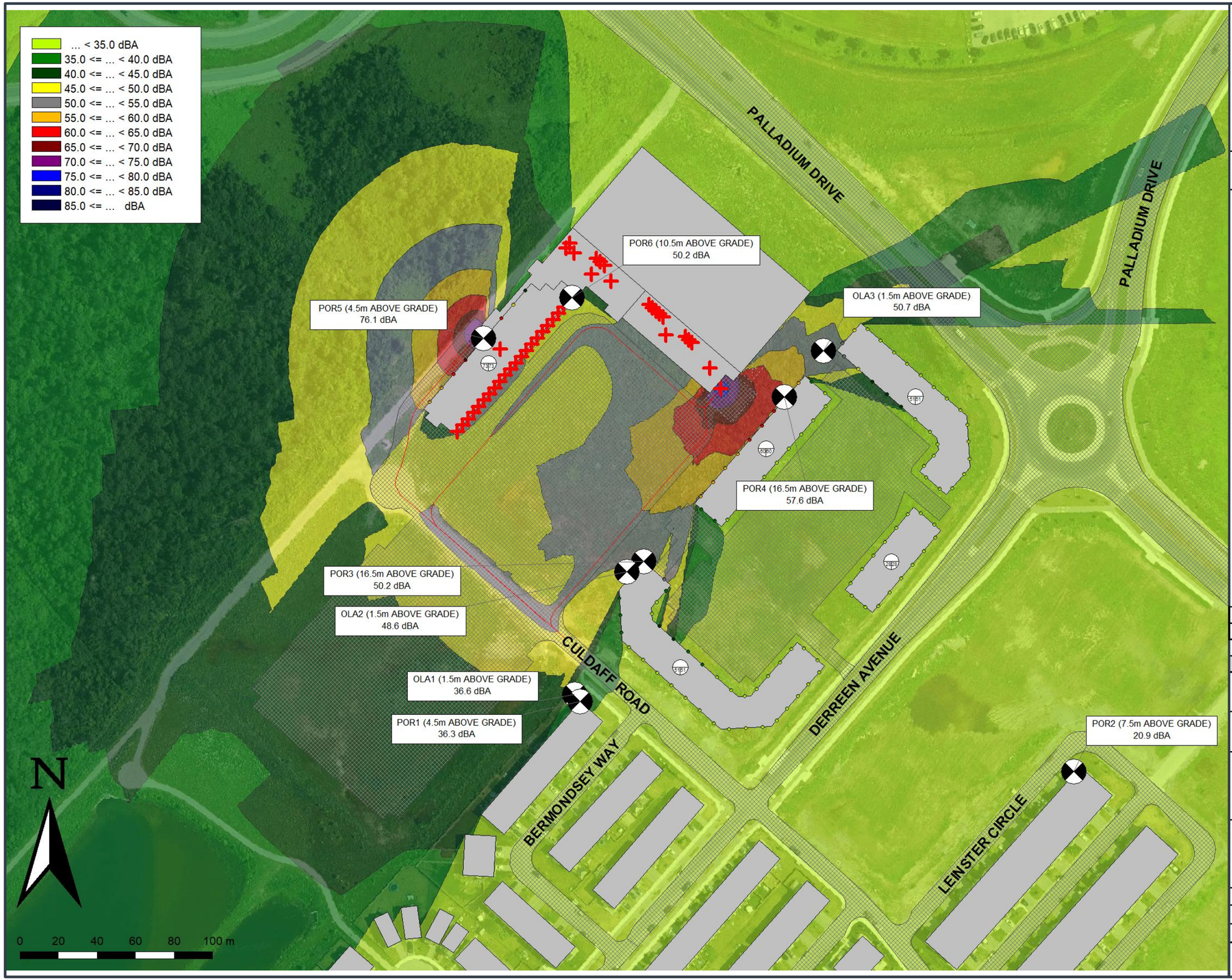
Note:
This drawing shall be read in conjunction with the associated report

REVISION	DATE	ISSUE	APPROVAL
1	2026/09/25	FINAL	M.V.
0	2026/06/25	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Estimated Location of Noise Sources

Designed By		Scale	NTS
Drawn By	M.V.	Date	25 June 2026
Approved By		Project No.	02631107.000
Figure No.	D1		

Copyright © 2026 Englobe Corp



eNGLOBe

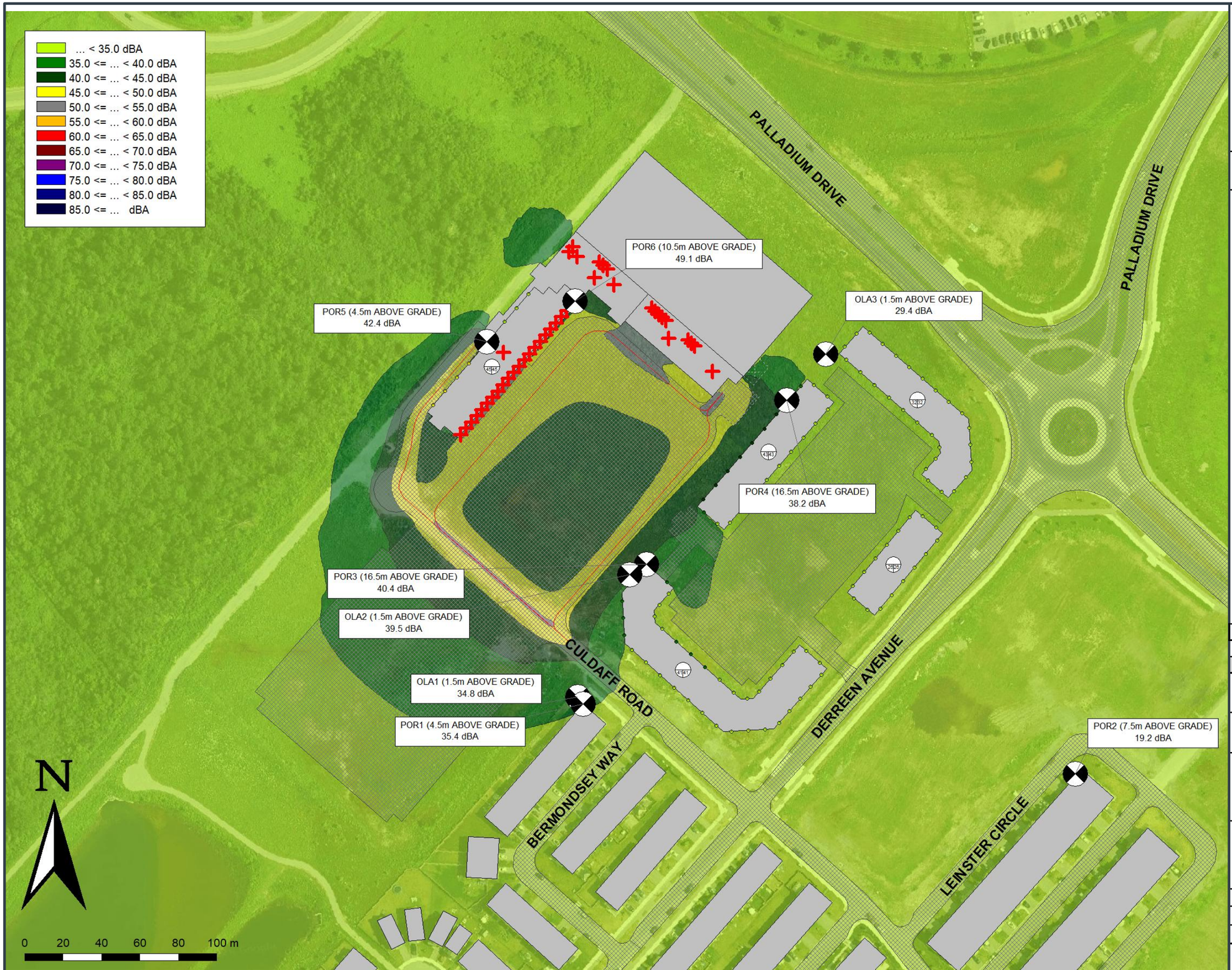
Note:
This drawing shall be read in conjunction with the associated report

REVISION	DATE	ISSUE	APPROVAL
2	2026/09/25	FINAL	M.V.
1	2026/06/30	FINAL	M.V.
0	2026/06/25	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Predicted Noise Levels at 4.5 m Above Grade - Non-Emergency Equipment

Designed By		Scale	NTS
Drawn By	M.V.	Date	30 June 2026
Approved By		Project No.	02631107.000
Figure No.	D2		

Copyright © 2026 Englobe Corp



Note:
This drawing shall be read in conjunction with the associated report

REVISION	DATE	ISSUE	APPROVAL
1	2026/09/25	FINAL	M.V.
0	2026/06/30	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Predicted Noise Levels at 4.5 m Above Grade - Non-Emergency Equipment w/ No-Idling Policy

Designed By		Scale	NTS
Drawn By	M.V.	Date	30 June 2026
Approved By		Project No.	02631107.000

Figure No. D3

Copyright © 2026 Englobe Corp



Note:
This drawing shall be read in conjunction with the associated report

REVISION	DATE	ISSUE	APPROVAL
1	2026/09/25	FINAL	M.V.
0	2026/06/30	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Predicted Noise Levels at 4.5 m Above Grade - Emergency Equipment Only

Designed By		Scale	NTS
Drawn By	M.V.	Date	30 June 2026
Approved By		Project No.	02631107.000
Figure No.	D4		

Copyright © 2026 Englobe Corp



eNGLOBe

Note:
This drawing shall be read in conjunction with the associated report

0	2026/09/25	FINAL	M.V.
REVISION	DATE	ISSUE	APPROVAL

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Predicted Noise Levels at 4.5 m Above Grade - Emergency Equipment Only (67dBA at 7m)

Designed By		Scale	NTS
Drawn By	M.V.	Date	25 September 2026
Approved By		Project No.	02631107.000
Figure No.	D5		

Copyright © 2026 Englobe Corp

Appendix E:
Sample CadnaA Output



ENGLOBE

Report (Palladium Resort Kanata_Rev1 (Sept 2026).cna)

Calculation Configuration

Configuration	
Parameter	Value
General	
Max. Error (dB)	0.00
Max. Search Radius (m)	2000.00
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (m)	1000.00
Min. Length of Section (m)	1.00
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	6.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	0.00
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	3
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613 (1996))	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Excl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (°C)	10
rel. Humidity (%)	70
Ground Absorption G	0.90
Wind Speed for Dir. (m/s)	3.0
Roads (NONE)	
Railways (NONE)	
Aircraft (NONE)	
Strictly acc. to AzB	

Group Day and Night

Name	Expression	Partial Sum Level (dB(A))																											
		OLA1			POR1			POR2			POR3			POR4			OLA2			OLA3			POR5			POR6			
		Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night		
Root	!*	36.6	36.6	36.6	36.3	36.3	36.3	20.9	20.9	20.9	50.2	50.2	50.2	57.6	57.6	57.6	48.6	48.6	48.6	50.7	50.7	50.7	76.1	76.1	76.1	50.2	50.2	50.2	
Mitigation (Generator Barrier)	!00*																												
PTAC Units	!01*	24.2	24.2	24.2	25.3	25.3	25.3	14.8	14.8	14.8	28.6	28.6	28.6	26.9	26.9	26.9	28.2	28.2	28.2	18.3	18.3	18.3	16.6	16.6	16.6	46.9	46.9	46.9	
All Other Sources	!02*	34.4	34.4	34.4	34.9	34.9	34.9	17.3	17.3	17.3	40.1	40.1	40.1	37.8	37.8	37.8	39.1	39.1	39.1	29.0	29.0	29.0	42.4	42.4	42.4	45.2	45.2	45.2	
Generator	!03*																												
Quieter Model	!0300*																												
75 dBA at 7m	!0301*																												
Idling Delivery Trucks	!04*	32.0	32.0	32.0	29.3	29.3	29.3	15.8	15.8	15.8	49.7	49.7	49.7	57.5	57.5	57.5	48.1	48.1	48.1	50.6	50.6	50.6	76.1	76.1	76.1	43.6	43.6	43.6	
Mitigation (Delivery Barrier)	!05*																												

Partial Day/Night

Source			Partial Level (dB(A))																										
Name	M.	ID	OLA1			POR1			POR2			POR3			POR4			OLA2			OLA3			POR5			POR6		
			Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
Delivery Truck 1		!04!S01a	31.8	31.8	31.8	29.0	29.0	29.0	14.4	14.4	14.4	49.7	49.7	49.7	57.5	57.5	57.5	48.0	48.0	48.0	50.6	50.6	50.6	22.3	22.3	22.3	43.5	43.5	43.5
Delivery Truck 2		!04!S01b	17.5	17.5	17.5	17.4	17.4	17.4	10.3	10.3	10.3	19.7	19.7	19.7	16.9	16.9	16.9	20.2	20.2	20.2	16.5	16.5	16.5	76.1	76.1	76.1	26.8	26.8	26.8

Source			Partial Level (dB(A))																											
Name	M.	ID	OLA1			POR1			POR2			POR3			POR4			OLA2			OLA3			POR5			POR6		
			Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
Rooftop MAU (Hotel)		!02!S03	11.5	11.5	11.5	13.2	13.2	13.2	7.5	7.5	7.5	17.4	17.4	17.4	15.6	15.6	15.6	14.7	14.7	14.7	8.8	8.8	8.8	18.6	18.6	18.6	10.8	10.8	10.8
Rooftop Pool AHU 1		!02!S04a	19.9	19.9	19.9	21.8	21.8	21.8	2.0	2.0	2.0	28.6	28.6	28.6	24.5	24.5	24.5	23.2	23.2	23.2	7.5	7.5	7.5	6.7	6.7	6.7	31.7	31.7	31.7
Rooftop Pool AHU 2		!02!S04b	19.9	19.9	19.9	21.8	21.8	21.8	-0.3	-0.3	-0.3	28.6	28.6	28.6	24.9	24.9	24.9	23.3	23.3	23.3	7.8	7.8	7.8	6.6	6.6	6.6	32.3	32.3	32.3
Rooftop Pool AHU 3		!02!S04c	20.0	20.0	20.0	21.9	21.9	21.9	-0.3	-0.3	-0.3	28.7	28.7	28.7	25.2	25.2	25.2	23.4	23.4	23.4	8.0	8.0	8.0	6.6	6.6	6.6	32.2	32.2	32.2
Rooftop Pool AHU 4		!02!S04d	20.0	20.0	20.0	21.9	21.9	21.9	-0.4	-0.4	-0.4	28.8	28.8	28.8	25.4	25.4	25.4	23.4	23.4	23.4	9.4	9.4	9.4	6.5	6.5	6.5	31.9	31.9	31.9
Rooftop Pool AHU 5		!02!S04e	20.0	20.0	20.0	22.0	22.0	22.0	-0.5	-0.5	-0.5	28.8	28.8	28.8	25.8	25.8	25.8	23.5	23.5	23.5	9.6	9.6	9.6	6.4	6.4	6.4	32.0	32.0	32.0
Mech Electr AHU 6		!02!S05a	14.3	14.3	14.3	16.0	16.0	16.0	-6.8	-6.8	-6.8	23.2	23.2	23.2	22.2	22.2	22.2	18.0	18.0	18.0	5.5	5.5	5.5	-0.2	-0.2	-0.2	26.8	26.8	26.8
Locker Room AHU 7		!02!S05b	7.9	7.9	7.9	9.2	9.2	9.2	-12.4	-12.4	-12.4	16.9	16.9	16.9	16.3	16.3	16.3	11.6	11.6	11.6	0.4	0.4	0.4	-6.5	-6.5	-6.5	20.2	20.2	20.2
Officel AHU 8		!02!S05c	7.9	7.9	7.9	9.2	9.2	9.2	-12.5	-12.5	-12.5	17.0	17.0	17.0	16.7	16.7	16.7	11.7	11.7	11.7	0.8	0.8	0.8	-6.6	-6.6	-6.6	20.1	20.1	20.1
Lobby AHU 9		!02!S05d	12.2	12.2	12.2	14.0	14.0	14.0	-3.0	-3.0	-3.0	21.4	21.4	21.4	18.4	18.4	18.4	15.2	15.2	15.2	1.4	1.4	1.4	2.9	2.9	2.9	28.6	28.6	28.6
Family Centre AHU 10		!02!S05e	12.2	12.2	12.2	14.0	14.0	14.0	-3.1	-3.1	-3.1	21.5	21.5	21.5	18.6	18.6	18.6	15.2	15.2	15.2	1.6	1.6	1.6	1.2	1.2	1.2	35.6	35.6	35.6
Kitchen AHU 11		!02!S05f	6.0	6.0	6.0	7.7	7.7	7.7	-8.8	-8.8	-8.8	15.3	15.3	15.3	12.3	12.3	12.3	9.0	9.0	9.0	-3.7	-3.7	-3.7	-5.3	-5.3	-5.3	29.4	29.4	29.4
Kitchen 2 AHU 12		!02!S05g	2.3	2.3	2.3	4.4	4.4	4.4	-8.5	-8.5	-8.5	14.4	14.4	14.4	12.3	12.3	12.3	8.1	8.1	8.1	-4.8	-4.8	-4.8	-0.7	-0.7	-0.7	14.1	14.1	14.1
Restaurant AHU 13		!02!S05h	3.1	3.1	3.1	5.5	5.5	5.5	-8.6	-8.6	-8.6	14.4	14.4	14.4	12.2	12.2	12.2	8.2	8.2	8.2	-4.9	-4.9	-4.9	-1.1	-1.1	-1.1	14.2	14.2	14.2
Kitchen Exhaust Fan 1		!02!S06a	12.1	12.1	12.1	14.4	14.4	14.4	-3.6	-3.6	-3.6	22.5	22.5	22.5	20.6	20.6	20.6	17.0	17.0	17.0	0.7	0.7	0.7	4.2	4.2	4.2	22.4	22.4	22.4
Kitchen Exhaust Fan 2		!02!S06b	14.1	14.1	14.1	15.4	15.4	15.4	-3.9	-3.9	-3.9	23.5	23.5	23.5	22.4	22.4	22.4	18.0	18.0	18.0	2.3	2.3	2.3	2.0	2.0	2.0	37.7	37.7	37.7
General Exhaust Fan 1		!02!S07a	12.9	12.9	12.9	14.4	14.4	14.4	-5.0	-5.0	-5.0	21.8	21.8	21.8	20.3	20.3	20.3	16.4	16.4	16.4	0.4	0.4	0.4	1.9	1.9	1.9	38.6	38.6	38.6
General Exhaust Fan 2		!02!S07b	14.6	14.6	14.6	16.2	16.2	16.2	-8.1	-8.1	-8.1	23.9	23.9	23.9	25.0	25.0	25.0	18.4	18.4	18.4	3.7	3.7	3.7	1.1	1.1	1.1	27.4	27.4	27.4
General Exhaust Fan 3		!02!S07c	12.7	12.7	12.7	9.8	9.8	9.8	-9.0	-9.0	-9.0	24.5	24.5	24.5	29.9	29.9	29.9	18.6	18.6	18.6	15.2	15.2	15.2	-0.3	-0.3	-0.3	26.3	26.3	26.3
PTAC Unit 1		!01!S08a	4.2	4.2	4.2	5.4	5.4	5.4	-3.3	-3.3	-3.3	8.0	8.0	8.0	4.9	4.9	4.9	7.8	7.8	7.8	-3.0	-3.0	-3.0	-7.9	-7.9	-7.9	9.2	9.2	9.2
PTAC Unit 2		!01!S08b	4.2	4.2	4.2	5.3	5.3	5.3	-3.3	-3.3	-3.3	8.1	8.1	8.1	5.0	5.0	5.0	7.8	7.8	7.8	-3.0	-3.0	-3.0	-7.4	-7.4	-7.4	9.5	9.5	9.5
PTAC Unit 3		!01!S08c	4.1	4.1	4.1	5.3	5.3	5.3	-3.4	-3.4	-3.4	8.1	8.1	8.1	5.2	5.2	5.2	7.8	7.8	7.8	-3.0	-3.0	-3.0	-6.8	-6.8	-6.8	9.8	9.8	9.8
PTAC Unit 4		!01!S08d	4.1	4.1	4.1	5.2	5.2	5.2	-3.3	-3.3	-3.3	8.1	8.1	8.1	5.4	5.4	5.4	7.8	7.8	7.8	-2.9	-2.9	-2.9	-6.1	-6.1	-6.1	10.0	10.0	10.0
PTAC Unit 5		!01!S08e	4.0	4.0	4.0	5.1	5.1	5.1	-3.2	-3.2	-3.2	8.1	8.1	8.1	5.5	5.5	5.5	7.7	7.7	7.7	-2.8	-2.8	-2.8	-5.3	-5.3	-5.3	10.3	10.3	10.3
PTAC Unit 6		!01!S08f	4.1	4.1	4.1	5.3	5.3	5.3	-3.2	-3.2	-3.2	8.0	8.0	8.0	5.6	5.6	5.6	7.8	7.8	7.8	-2.7	-2.7	-2.7	-4.5	-4.5	-4.5	10.6	10.6	10.6
PTAC Unit 7		!01!S08g	4.0	4.0	4.0	5.2	5.2	5.2	-3.1	-3.1	-3.1	8.0	8.0	8.0	5.7	5.7	5.7	7.8	7.8	7.8	-2.7	-2.7	-2.7	-3.6	-3.6	-3.6	10.1	10.1	10.1
PTAC Unit 8		!01!S08h	4.0	4.0	4.0	5.1	5.1	5.1	-3.1	-3.1	-3.1	8.0	8.0	8.0	5.8	5.8	5.8	7.7	7.7	7.7	-2.6	-2.6	-2.6	-2.8	-2.8	-2.8	9.5	9.5	9.5
PTAC Unit 9		!01!S08i	3.9	3.9	3.9	5.0	5.0	5.0	-3.2	-3.2	-3.2	7.9	7.9	7.9	5.9	5.9	5.9	7.7	7.7	7.7	-2.6	-2.6	-2.6	-2.0	-2.0	-2.0	8.7	8.7	8.7
PTAC Unit 10		!01!S08j	3.8	3.8	3.8	4.9	4.9	4.9	-7.3	-7.3	-7.3	7.8	7.8	7.8	6.0	6.0	6.0	7.5	7.5	7.5	-2.5	-2.5	-2.5	-1.3	-1.3	-1.3	8.8	8.8	8.8
PTAC Unit 11		!01!S08k	3.7	3.7	3.7	4.7	4.7	4.7	-9.6	-9.6	-9.6	7.8	7.8	7.8	6.1	6.1	6.1	7.5	7.5	7.5	-2.5	-2.5	-2.5	-0.9	-0.9	-0.9	9.9	9.9	9.9
PTAC Unit 12		!01!S08l	3.7	3.7	3.7	4.6	4.6	4.6	-11.7	-11.7	-11.7	7.7	7.7	7.7	6.1	6.1	6.1	7.4	7.4	7.4	-5.8	-5.8	-5.8	-0.8	-0.8	-0.8	8.0	8.0	8.0
PTAC Unit 13		!01!S08m	3.2	3.2	3.2	4.0	4.0	4.0	-13.2	-13.2	-13.2	7.6	7.6	7.6	0.9	0.9	0.9	7.0	7.0	7.0	-14.3	-14.3	-14.3	-1.1	-1.1	-1.1	2.8	2.8	2.8
PTAC Unit 14-15		!01!S08n	7.1	7.1	7.1	8.3	8.3	8.3	-0.3	-0.3	-0.3	11.1	11.1	11.1	7.7	7.7	7.7	10.8	10.8	10.8	-0.1	-0.1	-0.1	-4.9	-4.9	-4.9	12.5	12.5	12.5
PTAC Unit 16-17		!01!S08o	7.1	7.1	7.1	8.2	8.2	8.2	-0.3	-0.3	-0.3	11.1	11.1	11.1	7.9	7.9	7.9	10.8	10.8	10.8	-0.0	-0.0	-0.0	-4.4	-4.4	-4.4	12.8	12.8	12.8
PTAC Unit 18-19		!01!S08p	6.9	6.9	6.9	8.1	8.1	8.1	-0.4	-0.4	-0.4	11.1	11.1	11.1	8.1	8.1	8.1	10.8	10.8	10.8	0.0	0.0	0.0	-3.8	-3.8	-3.8	13.2	13.2	13.2
PTAC Unit 20-21		!01!S08q	6.9	6.9	6.9	8.0	8.0	8.0	-0.3	-0.3	-0.3	11.1	11.1	11.1	8.2	8.2	8.2	10.8	10.8	10.8	0.1	0.1	0.1	-3.1	-3.1	-3.1	13.6	13.6	13.6
PTAC Unit 22-23		!01!S08r	6.9	6.9	6.9	7.9	7.9	7.9	-0.3	-0.3	-0.3	11.1	11.1	11.1	8.4	8.4	8.4	10.7	10.7	10.7	0.2	0.2	0.2	-2.3	-2.3	-2.3	14.1	14.1	14.1
PTAC Unit 24-25		!01!S08s	7.1	7.1	7.1	8.2	8.2	8.2	-0.2	-0.2	-0.2	11.1	11.1	11.1	8.5	8.5	8.5	10.9	10.9	10.9	0.3	0.3	0.3	-1.5	-1.5	-1.5	14.5	14.5	14.5
PTAC Unit 26-27		!01!S08t	7.0	7.0	7.0	8.1	8.1	8.1	-0.2	-0.2	-0.2	11.1	11.1	11.1	8.6	8.6	8.6	10.8	10.8	10.8	0.4	0.4	0.4	-0.7	-0.7	-0.7	15.0	15.0	15.0
PTAC Unit 28-29		!01!S08u	7.0	7.0	7.0	8.1	8.1	8.1	-0.2	-0.2	-0.2	11.0	11.0	11.0	8.7	8.7	8.7	10.8	10.8	10.8	0.4	0.4	0.4	0.2	0.2	0.2	15.4	15.4	15.4
PTAC Unit 30-31		!01!S08v	7.0	7.0	7.0	8.0	8.0	8.0	-0.3	-0.3	-0.3	11.0	11.0	11.0	8.9	8.9	8.9	10.8	10.8	10.8	0.4	0.4	0.4	1.0	1.0	1.0	16.0	16.0	16.0
PTAC Unit 32-33		!01!S08w	6.9	6.9	6.9	7.9	7.9	7.9	-4.1	-4.1	-4.1	10.9	10.9	10.9	9.0	9.0	9.0	10.7	10.7	10.7	0.4	0.4	0.4	1.6	1.6	1.6	16.5	16.5	16.5
PTAC Unit 34-35		!01!S08x	6.9	6.9	6.9	7.7	7.7	7.7	-6.3	-6.3	-6.3	10.8	10.8	10.8	9.1	9.1	9.1	10.6	10.6	10.6	0.4	0.4	0.4	2.0	2.0	2.0	17.1	17.1	17.1
PTAC Unit 36-37		!01!S08y	6.9	6.9	6.9	7.8	7.8	7.8	-8.2	-8.2	-8.2	10.7	10.7	10.7	9.2	9.2	9.2	10.6	10.6	10.6	-0.6	-0.6	-0.6	2.1	2.1	2.1	17.7	17.7	17.7
PTAC Unit 38-39		!01!S08z	6.3	6.3	6.3	7.2	7.2	7.2	-9.5	-9.5	-9.5	10.6	10.6	10.6	9.1	9.1	9.1	10.4	10.4	10.4	-0.6	-0.6	-0.6	1.9	1.9	1.9	18.5	18.5	18.5
PTAC Unit 40-41		!01!S08aa	5.8	5.8	5.8	6.9	6.9	6.9	-11.4	-11.4	-11.4	10.4	10.4	10.4	9.2	9.2	9.2	10.3	10.3	10.3	-0.5	-0.5	-0.5	0.3	0.3	0.3	19.5	19.5	19.5
PTAC Unit 42-43		!01!S08ab	5.5	5.5	5.5	6.8	6.8	6.8	-11.8	-11.8	-11.8	10.3	10.3	10.3	9.3	9.3	9.3	9.9	9.9	9.9	-0.5	-0.5	-0.5	-0.8	-0.8	-0.8	20.5	20.5	20.5
PTAC Unit 44-45		!01!S08ac	5.2	5.2	5.2	6.7	6.7	6.7	-14.0	-14.0	-14.0	10.2	10.2	10.2	9.3	9.3	9.3	9.8	9.8	9.8	-0.8	-0.8	-0.8	-1.9	-1.9	-1.9	21.8	21.8	21.8
PTAC Unit 46-47		!01!S08ad	5.2	5.2	5.2	6.5	6.5	6.5	-14.3	-14.3	-14.3	10.1	10.1	10.1	9.3	9.3	9.3	9.6	9.6	9.6	-0.8	-0.8	-0.8	-2.9	-2.9	-2.9	23.2	23.2	23.2
PTAC Unit 48-49		!01!S08ae	5.0	5.0	5.0	6.4	6.4	6.4	-14.6	-14.6	-14.6	9.9	9.9	9.9	9.3	9.3	9.3	9.5	9.5	9.5	-0.7	-0.7	-0.7	-3.8	-3.8	-3.8	25.0	25.0	25.0
PTAC Unit 50-51		!01!S08af	4.8	4.8	4.8	6.3	6.3	6.3	-14.7	-14.7	-14.7	9.8	9.8	9.8	9.2	9.2	9.2	9.3	9.3	9.3	-5.2	-5.2	-5.2	-4.8	-4.8	-4.8	27.1	27.1	27.1
PTAC Unit 52-53		!01!S08ag	4.7	4.7	4.7	6.2	6.2	6.2	-14.8	-14.8	-14.8	9.7	9.7	9.7	9.2	9.2	9.2	9.1	9.1	9.1	-6.1	-6.1	-6.1	-5.5	-5.5	-5.5	29.8	29.8	29.8
PTAC Unit 54-55		!01!S08ah	4.5	4.5	4.5	6.0	6.0	6.0	-14.9	-14.9	-14.9	9.5	9.5	9.5	8.9	8.9	8.9	8.9	8.9	8.9	-6.5	-6.5	-6.5	-6.2	-6.2	-6.2	33.6	33.6	33.6
PTAC Unit 56-57		!01!S08ai	4.4	4.4	4.4	5.9	5.9	5.9	-15.0	-15.0	-15.0	9.3	9.3	9.3	8.6	8.6	8.6	8.8	8.8	8.8	-6.7	-6.7	-6.7	-6.8	-6.8	-6.8	39.2	39.2	39.2
PTAC Unit 58-59		!01!S08aj	4.3	4.3	4.3	5.9	5.9	5.9	-15.1	-15.1	-15.1	9.1	9.1	9.1	8.4	8.4	8.4	8.7	8.7	8.7	-6.8	-6.8	-6.8	-7.2	-7.2	-7.2	39.8	39.8	39.8
PTAC Unit 60-61		!01!S08ak	7.1	7.1	7.1	8.3	8.3	8.3	-0.6	-0.6	-0.6	11.1	11.1	11.1	7.7	7.7	7.7	10.8	10.8	10.8	1.4	1.4	1.4	-5.0	-5.0	-5.0	12.6	12.6	12.6
PTAC Unit 62-63		!01!S08al	7.0	7.0	7.0	8.2	8.2	8.2	-0.6	-0.6	-0.6	11.1	11.1	11.1	7.9	7.9	7.9	10.8	10.8	10.8	1.2	1.2	1.2	-4.5	-4.5	-4.5	13.0	13.0	13.0
PTAC Unit 64-65		!01!S08am	6.9	6.9	6.9	8.1	8.1	8.1	-0.7	-0.7	-0.7	11.1	11.1	11.1	8.1	8.1	8.1	10.8	10.8	10.8	1.1	1.1	1.1	-3.9	-3.9	-3.9	13.4	13.4	13.4
PTAC Unit 66-67		!01!S08an	6.9	6.9	6.9	8.0	8.0	8.0	-0.6	-0.6	-0.6	11.1	11.1	11.1	8.3	8.3	8.3	10.7	10.7	10.7	1.0	1.0	1.0	-3.1	-3.1	-3.1	13.8	13.8	13.8
PTAC Unit 68-69		!01!S08ao	6.8	6.8	6.8	7.9	7.9	7.9	-0.6	-0.6	-0.6	11.1	11.1	11.1	8.4	8.4	8.4	10.7	10.7	10.7	1.0	1.0	1.0	-2.4	-2.4	-2.4	14.2	14.2	14.2
PTAC Unit 70-71		!01!S08ap	6.7	6.7	6.7	7.8	7.8	7.8	-0.6	-0.6	-0.6	11.1	11.1	11.1	8.5	8.5	8.5	11.0	11.0	11.0	1.0	1.0	1.0	-1.6	-1.6	-1.6	14.7	14.7	14.7
PTAC Unit 72-73		!01!S08aq	6.6	6.6	6.6	7.7	7.7	7.7	-0.5	-0.5	-0.5	11.1	11.1	11.1	8.6	8.6	8.6	11.0	11.0	11.0	1.0	1.0	1.0	-0.8	-0.8	-0.8	15.1	15.1	15.1
PTAC Unit 74-75		!01!S08ar	6.6	6.6	6.6	7.6	7.6	7.6	-0.5	-0.5	-0.5	11.0	11.0	11.0	8.8	8.8	8.8	11.0	11.0	11.0	1.0	1.0	1.0	-0.2	-0.2	-0.2	15.6	15.6	15.6
PTAC Unit 76-77		!01!S08as	6.5	6.5	6.5	7.5	7.5	7.5	-0.6	-0.6	-0.6	11.0	11.0	11.0	8.9	8.9	8.9	10.9	10.9	10.9	1.1	1.1	1.1	0.5	0.5	0.5	16.1	16.1	16.1
PTAC Unit 78-79		!01!S08at	6.4	6.4	6.4	7.4	7.4	7.4	-3.3	-3.3	-3.3	10.9	10.9	10.9	9.0	9.0	9.0	10.8	10.8	10.8	1.1	1.1	1.1	1.1	1.1	1.1	16.7	16.7	16.7
PTAC Unit 80-81		!01!S08au	6.3	6.3	6.3	7.2	7.2	7.2	-5.3	-5.3	-5.3	10.8	10.8	10.8	9.1	9.1	9.1	10.8	10.8	10.8	1.1	1.1	1.1	1.4	1.4	1.4	17.2	17.2	17.2
PTAC Unit 82-83		!01!S08av	6.2	6.2	6.2	7.0	7.0	7.0	-6.6	-6.6	-6.6	10.8	10.8	10.8	9.2	9.2	9.2	10.7	10.7	10.7	1.2	1.2	1.2	1.5	1.5	1.5	17.8	17.8	17.8
PTAC Unit 84-85		!01!S08aw	6.0	6.0	6.0	6.8	6.8	6.8	-7.4	-7.4	-7.4	10.6	10.6	10.6	9.2	9.2	9.2	9.9	9.9	9.9	1.2	1.2	1.2	1.4	1.4	1.4	18.5	18.5	18.5
PTAC Unit 86-87		!01!S08ax	5.5	5.5	5.5	6.6	6.6	6.6	-8.4	-8.4	-8.4	10.4	10.4	10.4	9.3	9.3	9.3	9.8	9.8	9.8	1.2	1.2	1.2	-0.2	-0.2	-0.2	19.5	19.5	19.5

Source			Partial Level (dB(A))																									
Name	M.	ID	OLA1			POR1			POR2			POR3			POR4			OLA2			OLA3			POR5			POR6		
			Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night	Day	Evening	Night
PTAC Unit 88-89		!01!S08ay	5.2	5.2	5.2	6.4	6.4	6.4	-8.6	-8.6	-8.6	10.3	10.3	10.3	9.3	9.3	9.3	9.6	9.6	9.6	1.2	1.2	1.2	-1.2	-1.2	-1.2	20.6	20.6	20.6
PTAC Unit 90-91		!01!S08az	4.9	4.9	4.9	6.3	6.3	6.3	-11.6	-11.6	-11.6	10.2	10.2	10.2	9.3	9.3	9.3	9.5	9.5	9.5	1.3	1.3	1.3	-2.2	-2.2	-2.2	21.8	21.8	21.8
PTAC Unit 92-93		!01!S08ba	4.8	4.8	4.8	6.1	6.1	6.1	-11.8	-11.8	-11.8	10.1	10.1	10.1	9.4	9.4	9.4	9.3	9.3	9.3	1.3	1.3	1.3	-3.1	-3.1	-3.1	23.2	23.2	23.2
PTAC Unit 94-95		!01!S08bb	4.6	4.6	4.6	5.9	5.9	5.9	-11.9	-11.9	-11.9	10.0	10.0	10.0	9.4	9.4	9.4	9.2	9.2	9.2	1.3	1.3	1.3	-4.0	-4.0	-4.0	25.0	25.0	25.0
PTAC Unit 96-97		!01!S08bc	4.4	4.4	4.4	5.8	5.8	5.8	-12.0	-12.0	-12.0	9.8	9.8	9.8	9.3	9.3	9.3	9.0	9.0	9.0	-1.3	-1.3	-1.3	-4.8	-4.8	-4.8	27.1	27.1	27.1
PTAC Unit 98-99		!01!S08bd	4.2	4.2	4.2	5.6	5.6	5.6	-12.1	-12.1	-12.1	9.7	9.7	9.7	9.2	9.2	9.2	8.8	8.8	8.8	-1.2	-1.2	-1.2	-5.6	-5.6	-5.6	29.8	29.8	29.8
PTAC Unit 100-101		!01!S08be	4.1	4.1	4.1	5.5	5.5	5.5	-12.1	-12.1	-12.1	9.5	9.5	9.5	9.0	9.0	9.0	8.6	8.6	8.6	-1.2	-1.2	-1.2	-6.2	-6.2	-6.2	33.6	33.6	33.6
PTAC Unit 102-103		!01!S08bf	3.9	3.9	3.9	5.3	5.3	5.3	-12.1	-12.1	-12.1	9.3	9.3	9.3	8.6	8.6	8.6	8.4	8.4	8.4	-1.2	-1.2	-1.2	-6.8	-6.8	-6.8	39.2	39.2	39.2
PTAC Unit 104-105		!01!S08bg	3.7	3.7	3.7	5.2	5.2	5.2	-12.2	-12.2	-12.2	9.1	9.1	9.1	8.6	8.6	8.6	8.2	8.2	8.2	-1.1	-1.1	-1.1	-7.2	-7.2	-7.2	39.8	39.8	39.8
PTAC Unit 106-107		!01!S08bh	7.0	7.0	7.0	8.3	8.3	8.3	-0.6	-0.6	-0.6	11.1	11.1	11.1	7.7	7.7	7.7	10.7	10.7	10.7	1.8	1.8	1.8	-5.1	-5.1	-5.1	12.6	12.6	12.6
PTAC Unit 108-109		!01!S08bi	6.9	6.9	6.9	8.1	8.1	8.1	-0.7	-0.7	-0.7	11.1	11.1	11.1	8.1	8.1	8.1	10.7	10.7	10.7	1.6	1.6	1.6	-3.9	-3.9	-3.9	13.3	13.3	13.3
PTAC Unit 110-111		!01!S08bj	6.8	6.8	6.8	7.9	7.9	7.9	-0.6	-0.6	-0.6	11.1	11.1	11.1	8.4	8.4	8.4	10.6	10.6	10.6	1.5	1.5	1.5	-2.6	-2.6	-2.6	14.2	14.2	14.2
PTAC Unit 112-113		!01!S08bk	6.6	6.6	6.6	7.7	7.7	7.7	-0.5	-0.5	-0.5	11.1	11.1	11.1	8.6	8.6	8.6	10.5	10.5	10.5	1.5	1.5	1.5	-1.3	-1.3	-1.3	15.0	15.0	15.0
PTAC Unit 114-115		!01!S08bl	6.5	6.5	6.5	7.5	7.5	7.5	-0.6	-0.6	-0.6	11.0	11.0	11.0	8.9	8.9	8.9	10.4	10.4	10.4	1.6	1.6	1.6	-0.1	-0.1	-0.1	16.0	16.0	16.0
PTAC Unit 116-117		!01!S08bm	6.3	6.3	6.3	7.2	7.2	7.2	-3.4	-3.4	-3.4	10.8	10.8	10.8	9.1	9.1	9.1	10.2	10.2	10.2	1.7	1.7	1.7	0.5	0.5	0.5	17.1	17.1	17.1
PTAC Unit 118-119		!01!S08bn	6.0	6.0	6.0	6.8	6.8	6.8	-4.6	-4.6	-4.6	10.6	10.6	10.6	9.2	9.2	9.2	9.9	9.9	9.9	1.7	1.7	1.7	0.5	0.5	0.5	18.3	18.3	18.3
PTAC Unit 120-121		!01!S08bo	5.1	5.1	5.1	6.4	6.4	6.4	-5.2	-5.2	-5.2	10.3	10.3	10.3	9.3	9.3	9.3	9.6	9.6	9.6	1.8	1.8	1.8	-1.7	-1.7	-1.7	20.3	20.3	20.3
PTAC Unit 122-123		!01!S08bp	4.8	4.8	4.8	6.1	6.1	6.1	-6.4	-6.4	-6.4	10.1	10.1	10.1	9.4	9.4	9.4	9.3	9.3	9.3	1.8	1.8	1.8	-3.2	-3.2	-3.2	22.7	22.7	22.7
PTAC Unit 124-125		!01!S08bq	4.4	4.4	4.4	5.8	5.8	5.8	-6.4	-6.4	-6.4	9.8	9.8	9.8	9.3	9.3	9.3	9.0	9.0	9.0	0.2	0.2	0.2	-4.7	-4.7	-4.7	25.9	25.9	25.9
PTAC Unit 126-127		!01!S08br	4.0	4.0	4.0	5.5	5.5	5.5	-6.4	-6.4	-6.4	9.5	9.5	9.5	9.0	9.0	9.0	8.5	8.5	8.5	0.3	0.3	0.3	-6.3	-6.3	-6.3	29.8	29.8	29.8
PTAC Unit 128		!01!S08bs	0.7	0.7	0.7	2.1	2.1	2.1	-9.5	-9.5	-9.5	6.1	6.1	6.1	5.6	5.6	5.6	5.2	5.2	5.2	-2.6	-2.6	-2.6	-10.3	-10.3	-10.3	28.4	28.4	28.4
Emergency Generator	~	!0301!S09a																											
Emergency Generator (Quieter Model)	~	!0300!S09b																											
Delivery Truck Movements 2		!02!S02b	27.4	27.4	27.4	27.7	27.7	27.7	6.8	6.8	6.8	27.9	27.9	27.9	21.5	21.5	21.5	28.7	28.7	28.7	19.3	19.3	19.3	42.3	42.3	42.3	22.8	22.8	22.8
Delivery Truck Movements 1		!02!S02a	31.8	31.8	31.8	31.7	31.7	31.7	15.4	15.4	15.4	36.2	36.2	36.2	33.2	33.2	33.2	37.7	37.7	37.7	27.9	27.9	27.9	11.1	11.1	11.1	37.0	37.0	37.0

Sound Sources

Point Sources

Name	Sel.	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
				Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
				(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
Delivery Truck 1			!04!S01a	96.4	96.4	96.4	Lw	Lvl02		0.0	0.0	0.0							0.0		(none)	1.50	r	1638790.39	12117325.39	1.50
Delivery Truck 2			!04!S01b	96.4	96.4	96.4	Lw	Lvl02		0.0	0.0	0.0							0.0		(none)	1.50	r	1638666.52	12117353.15	1.50
Rooftop MAU (Hotel)			!02!S03	72.3	72.3	72.3	Lw	Lvl05		0.0	0.0	0.0							0.0		(none)	1.00	g	1638677.20	12117345.51	22.00
Rooftop Pool AHU 1			!02!S04a	78.3	78.3	78.3	Lw	Lvl04		0.0	0.0	0.0							0.0		(none)	1.00	g	1638753.40	12117368.48	4.00
Rooftop Pool AHU 2			!02!S04b	78.3	78.3	78.3	Lw	Lvl04		0.0	0.0	0.0							0.0		(none)	1.00	g	1638755.25	12117366.79	4.00
Rooftop Pool AHU 3			!02!S04c	78.3	78.3	78.3	Lw	Lvl04		0.0	0.0	0.0							0.0		(none)	1.00	g	1638757.13	12117365.15	4.00
Rooftop Pool AHU 4			!02!S04d	78.3	78.3	78.3	Lw	Lvl04		0.0	0.0	0.0							0.0		(none)	1.00	g	1638758.89	12117363.66	4.00
Rooftop Pool AHU 5			!02!S04e	78.3	78.3	78.3	Lw	Lvl04		0.0	0.0	0.0							0.0		(none)	1.00	g	1638760.73	12117362.04	4.00
Mech Electr AHU 6			!02!S05a	72.3	72.3	72.3	Lw	Lvl05		0.0	0.0	0.0							0.0		(none)	1.00	g	1638772.06	12117352.05	4.00
Locker Room AHU 7			!02!S05b	66.2	66.2	66.2	Lw	Lvl06		0.0	0.0	0.0							0.0		(none)	1.00	g	1638773.82	12117350.46	4.00
Officel AHU 8			!02!S05c	66.2	66.2	66.2	Lw	Lvl06		0.0	0.0	0.0							0.0		(none)	1.00	g	1638775.50	12117348.97	4.00
Lobby AHU 9			!02!S05d	72.3	72.3	72.3	Lw	Lvl05		0.0	0.0	0.0							0.0		(none)	1.00	g	1638726.55	12117392.15	7.00
Family Centre AHU 10			!02!S05e	72.3	72.3	72.3	Lw	Lvl05		0.0	0.0	0.0							0.0		(none)	1.00	g	1638728.52	12117390.39	7.00
Kitchen AHU 11			!02!S05f	66.2	66.2	66.2	Lw	Lvl06		0.0	0.0	0.0							0.0		(none)	1.00	g	1638730.61	12117388.59	7.00
Kitchen 2 AHU 12			!02!S05g	66.2	66.2	66.2	Lw	Lvl06		0.0	0.0	0.0							0.0		(none)	1.00	g	1638710.87	12117397.54	7.00
Restaurant AHU 13			!02!S05h	66.2	66.2	66.2	Lw	Lvl06		0.0	0.0	0.0							0.0		(none)	1.00	g	1638712.90	12117399.81	7.00
Kitchen Exhaust Fan 1			!02!S06a	74.5	74.5	74.5	Lw	Lvl07		0.0	0.0	0.0							0.0		(none)	0.50	g	1638714.97	12117394.89	6.50
Kitchen Exhaust Fan 2			!02!S06b	74.5	74.5	74.5	Lw	Lvl07		0.0	0.0	0.0							0.0		(none)	0.50	g	1638734.12	12117380.44	6.50
General Exhaust Fan 1			!02!S07a	73.2	73.2	73.2	Lw	Lvl08		0.0	0.0	0.0							0.0		(none)	0.50	g	1638723.99	12117384.06	6.50
General Exhaust Fan 2			!02!S07b	73.2	73.2	73.2	Lw	Lvl08		0.0	0.0	0.0							0.0		(none)	0.50	g	1638762.23	12117352.86	3.50
General Exhaust Fan 3			!02!S07c	73.2	73.2	73.2	Lw	Lvl08		0.0	0.0	0.0							0.0		(none)	0.50	g	1638784.80	12117335.85	3.50
PTAC Unit 1			!01!S08a	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638655.28	12117303.31	4.50
PTAC Unit 2			!01!S08b	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638657.98	12117306.52	4.50
PTAC Unit 3			!01!S08c	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638660.72	12117309.76	4.50
PTAC Unit 4			!01!S08d	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638663.47	12117312.96	4.50
PTAC Unit 5			!01!S08e	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638666.15	12117316.15	4.50
PTAC Unit 6			!01!S08f	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638668.86	12117319.31	4.50
PTAC Unit 7			!01!S08g	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638671.58	12117322.52	4.50
PTAC Unit 8			!01!S08h	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638674.29	12117325.70	4.50
PTAC Unit 9			!01!S08i	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638677.04	12117328.90	4.50
PTAC Unit 10			!01!S08j	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638679.78	12117332.12	4.50
PTAC Unit 11			!01!S08k	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638682.53	12117335.30	4.50
PTAC Unit 12			!01!S08l	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638685.23	12117338.50	4.50
PTAC Unit 13			!01!S08m	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	4.50	r	1638687.93	12117341.72	4.50
PTAC Unit 14-15			!01!S08n	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638655.28	12117303.31	7.50
PTAC Unit 16-17			!01!S08o	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638657.98	12117306.52	7.50
PTAC Unit 18-19			!01!S08p	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638660.72	12117309.76	7.50
PTAC Unit 20-21			!01!S08q	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638663.47	12117312.96	7.50

Name	Sel.	M.	ID	Result. PWL			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Height		Coordinates		
				Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night						X	Y	Z
				(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		(m)		(m)	(m)	(m)
PTAC Unit 22-23			!01!S08r	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638666.15	12117316.15	7.50
PTAC Unit 24-25			!01!S08s	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638668.86	12117319.31	7.50
PTAC Unit 26-27			!01!S08t	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638671.58	12117322.52	7.50
PTAC Unit 28-29			!01!S08u	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638674.29	12117325.70	7.50
PTAC Unit 30-31			!01!S08v	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638677.04	12117328.90	7.50
PTAC Unit 32-33			!01!S08w	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638679.78	12117332.12	7.50
PTAC Unit 34-35			!01!S08x	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638682.53	12117335.30	7.50
PTAC Unit 36-37			!01!S08y	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638685.23	12117338.50	7.50
PTAC Unit 38-39			!01!S08z	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638687.93	12117341.72	7.50
PTAC Unit 40-41			!01!S08aa	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638690.69	12117344.93	7.50
PTAC Unit 42-43			!01!S08ab	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638693.39	12117348.08	7.50
PTAC Unit 44-45			!01!S08ac	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638696.12	12117351.28	7.50
PTAC Unit 46-47			!01!S08ad	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638698.82	12117354.44	7.50
PTAC Unit 48-49			!01!S08ae	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638701.54	12117357.61	7.50
PTAC Unit 50-51			!01!S08af	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638704.27	12117360.78	7.50
PTAC Unit 52-53			!01!S08ag	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638706.97	12117363.93	7.50
PTAC Unit 54-55			!01!S08ah	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638709.68	12117367.10	7.50
PTAC Unit 56-57			!01!S08ai	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638712.42	12117370.28	7.50
PTAC Unit 58-59			!01!S08aj	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	7.50	r	1638715.05	12117373.45	7.50
PTAC Unit 60-61			!01!S08ak	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638655.28	12117303.31	13.50
PTAC Unit 62-63			!01!S08al	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638657.98	12117306.52	13.50
PTAC Unit 64-65			!01!S08am	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638660.72	12117309.76	13.50
PTAC Unit 66-67			!01!S08an	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638663.47	12117312.96	13.50
PTAC Unit 68-69			!01!S08ao	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638666.15	12117316.15	13.50
PTAC Unit 70-71			!01!S08ap	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638668.86	12117319.31	13.50
PTAC Unit 72-73			!01!S08aq	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638671.58	12117322.52	13.50
PTAC Unit 74-75			!01!S08ar	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638674.29	12117325.70	13.50
PTAC Unit 76-77			!01!S08as	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638677.04	12117328.90	13.50
PTAC Unit 78-79			!01!S08at	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638679.78	12117332.12	13.50
PTAC Unit 80-81			!01!S08au	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638682.53	12117335.30	13.50
PTAC Unit 82-83			!01!S08av	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638685.23	12117338.50	13.50
PTAC Unit 84-85			!01!S08aw	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638687.93	12117341.72	13.50
PTAC Unit 86-87			!01!S08ax	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638690.69	12117344.93	13.50
PTAC Unit 88-89			!01!S08ay	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638693.39	12117348.08	13.50
PTAC Unit 90-91			!01!S08az	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638696.12	12117351.28	13.50
PTAC Unit 92-93			!01!S08ba	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638698.82	12117354.44	13.50
PTAC Unit 94-95			!01!S08bb	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638701.54	12117357.61	13.50
PTAC Unit 96-97			!01!S08bc	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638704.27	12117360.78	13.50
PTAC Unit 98-99			!01!S08bd	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638706.97	12117363.93	13.50
PTAC Unit 100-101			!01!S08be	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638709.68	12117367.10	13.50
PTAC Unit 102-103			!01!S08bf	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638712.42	12117370.28	13.50
PTAC Unit 104-105			!01!S08bg	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	13.50	r	1638715.05	12117373.45	13.50
PTAC Unit 106-107			!01!S08bh	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638655.28	12117303.31	19.50
PTAC Unit 108-109			!01!S08bi	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638660.72	12117309.76	19.50
PTAC Unit 110-111			!01!S08bj	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638666.15	12117316.15	19.50
PTAC Unit 112-113			!01!S08bk	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638671.58	12117322.52	19.50
PTAC Unit 114-115			!01!S08bl	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638677.04	12117328.90	19.50
PTAC Unit 116-117			!01!S08bm	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638682.53	12117335.30	19.50
PTAC Unit 118-119			!01!S08bn	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638687.93	12117341.72	19.50
PTAC Unit 120-121			!01!S08bo	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638693.39	12117348.08	19.50
PTAC Unit 122-123			!01!S08bp	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638698.82	12117354.44	19.50
PTAC Unit 124-125			!01!S08bq	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638704.27	12117360.78	19.50
PTAC Unit 126-127			!01!S08br	61.3	61.3	61.3	Lw	Lvl01		3.0	3.0	3.0							0.0		(none)	19.50	r	1638709.68	12117367.10	19.50
PTAC Unit 128			!01!S08bs	58.3	58.3	58.3	Lw	Lvl01		0.0	0.0	0.0							0.0		(none)	19.50	r	1638715.05	12117373.45	19.50
Emergency Generator		~	!0301!S09a	100.2	100.2	100.2	Lw	Lvl09		0.0	0.0	0.0							0.0		(none)	1.50	r	1638806.45	12117335.69	1.50
Emergency Generator (Quieter Model)		~	!0300!S09b	92.2	92.2	92.2	Lw	Lvl09		-8.0	-8.0	-8.0							0.0		(none)	1.50	r	1638806.45	12117335.69	1.50

Line Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
				Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number			Speed
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)
Delivery Truck Movements 2			!02!S02b	77.9	77.9	77.9	55.0	55.0	55.0	PWL-Pt	Lvl03		0.0	0.0	0.0							0.0		(none)	4.0	4.0	4.0	30.0
Delivery Truck Movements 1			!02!S02a	81.6	81.6	81.6	55.0	55.0	55.0	PWL-Pt	Lvl03		0.0	0.0	0.0							0.0		(none)	4.0	4.0	4.0	30.0

Geometry Line Sources

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(m)		(m)		(m)	(m)	(m)	(m)
Delivery Truck Movements 2	!02!S02b	1.50	r			1638666.34	12117353.33	1.50	0.00

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(m)		(m)		(m)	(m)	(m)	(m)
						1638635.20	12117316.61	1.50	0.00
						1638632.86	12117312.65	1.50	0.00
						1638631.60	12117309.05	1.50	0.00
						1638630.79	12117305.00	1.50	0.00
						1638629.44	12117296.90	1.50	0.00
						1638628.00	12117291.23	1.50	0.00
						1638626.56	12117285.83	1.50	0.00
						1638624.85	12117282.41	1.50	0.00
						1638623.59	12117278.00	1.50	0.00
						1638623.59	12117275.75	1.50	0.00
						1638624.40	12117273.77	1.50	0.00
						1638626.02	12117271.07	1.50	0.00
						1638701.26	12117205.18	1.50	0.00
Delivery Truck Movements 1	!02!S02a	1.50	r			1638704.03	12117202.72	1.50	0.00
						1638703.10	12117205.22	1.50	0.00
						1638703.17	12117207.43	1.50	0.00
						1638704.60	12117210.43	1.50	0.00
						1638707.53	12117214.15	1.50	0.00
						1638781.36	12117299.65	1.50	0.00
						1638782.60	12117302.15	1.50	0.00
						1638783.11	12117305.67	1.50	0.00
						1638782.93	12117308.48	1.50	0.00
						1638782.33	12117310.55	1.50	0.00
						1638781.91	12117311.84	1.50	0.00
						1638781.81	12117313.14	1.50	0.00
						1638781.96	12117314.23	1.50	0.00
						1638782.23	12117315.33	1.50	0.00
						1638782.65	12117316.43	1.50	0.00
						1638790.36	12117325.38	1.50	0.00
						1638782.62	12117316.38	1.50	0.00
						1638781.54	12117315.84	1.50	0.00
						1638780.37	12117315.75	1.50	0.00
						1638779.15	12117315.97	1.50	0.00
						1638777.89	12117316.42	1.50	0.00
						1638776.27	12117317.50	1.50	0.00
						1638774.25	12117319.17	1.50	0.00
						1638732.91	12117355.00	1.50	0.00
						1638730.64	12117356.14	1.50	0.00
						1638728.43	12117356.65	1.50	0.00
						1638726.05	12117356.70	1.50	0.00
						1638724.01	12117356.65	1.50	0.00
						1638722.37	12117356.31	1.50	0.00
						1638720.61	12117355.51	1.50	0.00
						1638718.96	12117354.44	1.50	0.00
						1638717.55	12117353.19	1.50	0.00
						1638643.61	12117267.23	1.50	0.00
						1638642.41	12117265.47	1.50	0.00
						1638641.90	12117263.71	1.50	0.00
						1638641.73	12117261.78	1.50	0.00
						1638642.13	12117259.69	1.50	0.00
						1638642.81	12117257.70	1.50	0.00
						1638643.61	12117256.11	1.50	0.00
						1638645.53	12117253.90	1.50	0.00
						1638710.86	12117196.86	1.50	0.00

Area Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.	Moving Pt. Src		
				Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night				Number		
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night

Geometry Area Sources

Name	ID	Height				Coordinates			
		Begin		End		x	y	z	Ground
		(m)		(m)		(m)	(m)	(m)	(m)

Vertical Area Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL"			Lw / Li			Correction			Sound Reduction		Attenuation	Operating Time			K0	Freq.	Direct.
				Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area		Day	Special	Night			
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	dB(A)	dB(A)	dB(A)		(m²)		(min)	(min)	(min)	(dB)	(Hz)	

Road

Name	Sel.	M.	ID	Lme			Count Data		exact Count Data						Speed Limit		SCS	Surface			Gradient	Mult. Reflection		
				Day	Evening	Night	DTV	Str.class.	M			p (%)			Auto	Truck	Dist.	Dstro	Type			Drefl	Hbuild	Dist.
				(dBA)	(dBA)	(dBA)			Day	Evening	Night	Day	Evening	Night	(km/h)	(km/h)		(dB)		(%)	(dB)	(m)	(m)

Geometry Road

Name	Height		Coordinates				Dist	LSlope
	Begin	End	x	y	z	Ground	(m)	(%)
	(m)	(m)	(m)	(m)	(m)	(m)		

Receptors

Name	Sel.	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
				Day	Evening	Night	Day	Evening	Night	Type	Auto	Noise Type			X	Y	Z
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(m)		(m)	(m)	(m)
OLA1			R1	36.6	36.6	36.6	0.0	0.0	0.0		x	Total	1.50	r	1638715.38	12117168.34	1.50
POR1			R2	36.3	36.3	36.3	0.0	0.0	0.0		x	Total	4.50	r	1638718.20	12117164.89	4.50
POR2			R3	20.9	20.9	20.9	0.0	0.0	0.0		x	Total	7.50	r	1638971.24	12117128.88	7.50
POR3			R4	50.2	50.2	50.2	0.0	0.0	0.0		x	Total	16.50	r	1638750.84	12117236.79	16.50
POR4			R5	57.6	57.6	57.6	0.0	0.0	0.0		x	Total	16.50	r	1638822.90	12117321.04	16.50
OLA2			R6	48.6	48.6	48.6	0.0	0.0	0.0		x	Total	1.50	r	1638742.22	12117231.54	1.50
OLA3			R7	50.7	50.7	50.7	0.0	0.0	0.0		x	Total	1.50	r	1638842.87	12117344.69	1.50
POR5			R9	76.1	76.1	76.1	0.0	0.0	0.0		x	Total	4.50	r	1638668.63	12117351.27	4.50
POR6			R10	50.2	50.2	50.2	0.0	0.0	0.0		x	Total	10.50	r	1638713.94	12117371.97	10.50

Obstacles

Barriers

Name	Sel.	M.	ID	Absorption		Z-Ext.	Cantilever		Height			
				left	right		horz.	vert.	Begin		End	
						(m)	(m)	(m)	(m)		(m)	
Barrier 1		~	!05!Bar01	0.21	0.21				3.00	r		
Barrier 2		~	!00!Bar02	0.60	0.21				9.00	r		

Geometry Barriers

Name	Sel.	M.	ID	Absorption		Z-Ext.	Cantilever		Height				Coordinates			
				left	right		horz.	vert.	Begin		End		x	y	z	Ground
						(m)	(m)	(m)	(m)		(m)		(m)	(m)	(m)	(m)
Barrier 1		~	!05!Bar01	0.21	0.21				3.00	r			1638798.57	12117331.39	3.00	0.00
													1638808.56	12117322.71	3.00	0.00
													1638795.96	12117307.90	3.00	0.00
													1638782.10	12117320.07	3.00	0.00
													1638784.64	12117323.05	3.00	0.00
Barrier 2		~	!00!Bar02	0.60	0.21				9.00	r			1638800.47	12117333.66	9.00	0.00
													1638805.87	12117329.05	9.00	0.00
													1638813.67	12117338.09	9.00	0.00
													1638808.19	12117342.74	9.00	0.00

Building

Name	Sel.	M.	ID	RB	Residents	Absorption	Height	
							Begin	
							(m)	
Res01			Res01	x	0		6.00	r
Res02			Res02	x	0		6.00	r
Res03			Res03	x	0		6.00	r
Res04			Res04	x	0		6.00	r
Res05			Res05	x	0		6.00	r
Res06			Res06	x	0		6.00	r
Res07			Res07	x	0		6.00	r
Res08			Res08	x	0		6.00	r
Res09			Res09	x	0		6.00	r
Res10			Res10	x	0		6.00	r
Res11			Res11	x	0		6.00	r
Res12			Res12	x	0		6.00	r
Res13			Res13	x	0		6.00	r
Res14			Res14	x	0		6.00	r
Res15			Res15	x	0		6.00	r
Res16			Res16	x	0		6.00	r
Res17			Res17	x	0		6.00	r

Name	Sel.	M.	ID	RB	Residents	Absorption	Height	
							Begin	
							(m)	
Res18			Res18	x	0		6.00	r
Res19			Res19	x	0		6.00	r
Res20			Res20	x	0		6.00	r
Res21			Res21	x	0		9.00	r
Res22			Res22	x	0		9.00	r
Support Building			Support_Building		0	0.21	3.00	r
Family Centre & Admin			Family_Centre_Admin		0		6.00	r
Hotel			Hotel		0		21.00	r
Water Park (Assumed 3 Storeys - Mech Brief)			Water_Park		0	0.21	9.00	r
425 Culdaff Residential Building			425Culdaff	x	0		18.00	r
2765 Palladium Dr_Bldg A			2765Palladium_A	x	0	0.37	18.00	r
2765 Palladium Dr_Bldg B			2765Palladium_B	x	0		18.00	r
2765 Palladium Dr_Bldg C			2765Palladium_C	x	0		18.00	r

Geometry Building

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(m)		(m)	(m)	(m)	(m)
Res01			Res01	x	0		6.00	r	1638718.18	12117164.72	6.00	0.00
									1638667.52	12117106.99	6.00	0.00
									1638679.23	12117096.71	6.00	0.00
									1638729.90	12117154.43	6.00	0.00
Res02			Res02	x	0		6.00	r	1638749.83	12117139.65	6.00	0.00
									1638701.70	12117087.32	6.00	0.00
									1638712.62	12117077.27	6.00	0.00
									1638760.75	12117129.60	6.00	0.00
Res03			Res03	x	0		6.00	r	1638770.39	12117121.35	6.00	0.00
									1638724.56	12117068.17	6.00	0.00
									1638735.72	12117058.55	6.00	0.00
									1638781.55	12117111.74	6.00	0.00
Res04			Res04	x	0		6.00	r	1638659.19	12117096.66	6.00	0.00
									1638657.97	12117075.75	6.00	0.00
									1638673.81	12117074.83	6.00	0.00
									1638675.03	12117095.74	6.00	0.00
Res05			Res05	x	0		6.00	r	1638678.43	12117072.75	6.00	0.00
									1638715.59	12117039.08	6.00	0.00
									1638705.69	12117028.15	6.00	0.00
									1638668.53	12117061.82	6.00	0.00
Res06			Res06	x	0		6.00	r	1638809.95	12117093.51	6.00	0.00
									1638711.80	12116981.64	6.00	0.00
									1638722.57	12116972.19	6.00	0.00
									1638820.72	12117084.06	6.00	0.00
Res07			Res07	x	0		6.00	r	1638834.56	12117072.99	6.00	0.00
									1638735.49	12116960.77	6.00	0.00
									1638747.13	12116950.50	6.00	0.00
									1638846.19	12117062.72	6.00	0.00
Res08			Res08	x	0		6.00	r	1638831.32	12117009.10	6.00	0.00
									1638782.04	12116952.11	6.00	0.00
									1638793.32	12116942.37	6.00	0.00
									1638842.60	12116999.36	6.00	0.00
Res09			Res09	x	0		6.00	r	1638848.04	12117028.40	6.00	0.00
									1638863.05	12117044.49	6.00	0.00
									1638874.20	12117034.10	6.00	0.00
									1638859.20	12117018.00	6.00	0.00
Res10			Res10	x	0		6.00	r	1638879.78	12117017.81	6.00	0.00
									1638805.14	12116933.78	6.00	0.00
									1638816.76	12116923.46	6.00	0.00
									1638891.40	12117007.49	6.00	0.00
Res11			Res11	x	0		6.00	r	1638600.17	12117039.44	6.00	0.00
									1638524.06	12116953.10	6.00	0.00
									1638536.06	12116942.52	6.00	0.00
									1638612.18	12117028.85	6.00	0.00
Res12			Res12	x	0		6.00	r	1638548.67	12116917.71	6.00	0.00
									1638637.38	12117015.35	6.00	0.00
									1638648.67	12117005.10	6.00	0.00
									1638559.96	12116907.45	6.00	0.00
Res13			Res13	x	0		6.00	r	1638561.93	12116889.58	6.00	0.00
									1638658.82	12116996.06	6.00	0.00
									1638671.14	12116984.85	6.00	0.00
									1638574.25	12116878.37	6.00	0.00

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(m)		(m)	(m)	(m)	(m)
Res14			Res14	x	0		6.00	r	1638696.33	12116962.71	6.00	0.00
									1638606.17	12116859.43	6.00	0.00
									1638616.54	12116850.38	6.00	0.00
									1638706.70	12116953.66	6.00	0.00
Res15			Res15	x	0		6.00	r	1638718.21	12116942.69	6.00	0.00
									1638628.28	12116842.05	6.00	0.00
									1638640.17	12116831.43	6.00	0.00
									1638730.10	12116932.06	6.00	0.00
Res16			Res16	x	0		6.00	r	1638653.91	12117032.50	6.00	0.00
									1638687.36	12117001.41	6.00	0.00
									1638697.76	12117012.60	6.00	0.00
									1638664.31	12117043.69	6.00	0.00
Res17			Res17	x	0		6.00	r	1638612.28	12117053.34	6.00	0.00
									1638619.46	12117038.59	6.00	0.00
									1638626.62	12117042.08	6.00	0.00
									1638619.44	12117056.83	6.00	0.00
Res18			Res18	x	0		6.00	r	1638626.30	12117058.91	6.00	0.00
									1638628.42	12117042.73	6.00	0.00
									1638636.70	12117043.81	6.00	0.00
									1638634.57	12117059.99	6.00	0.00
Res19			Res19	x	0		6.00	r	1638646.39	12117058.43	6.00	0.00
									1638638.48	12117044.04	6.00	0.00
									1638645.68	12117040.09	6.00	0.00
									1638653.58	12117054.48	6.00	0.00
Res20			Res20	x	0		6.00	r	1638654.65	12117051.36	6.00	0.00
									1638646.95	12117040.46	6.00	0.00
									1638653.37	12117035.93	6.00	0.00
									1638661.07	12117046.82	6.00	0.00
Res21			Res21	x	0		9.00	r	1638895.02	12117041.61	9.00	0.00
									1638974.82	12117131.24	9.00	0.00
									1638991.08	12117116.77	9.00	0.00
									1638911.28	12117027.14	9.00	0.00
Res22			Res22	x	0		9.00	r	1638925.59	12117008.87	9.00	0.00
									1639008.59	12117100.97	9.00	0.00
									1639024.74	12117086.41	9.00	0.00
									1638941.74	12116994.32	9.00	0.00
Support Building			Support_Building		0	0.21	3.00	r	1638739.13	12117362.25	3.00	0.00
									1638784.68	12117323.01	3.00	0.00
									1638792.81	12117332.45	3.00	0.00
									1638796.67	12117329.13	3.00	0.00
									1638800.50	12117333.57	3.00	0.00
									1638751.20	12117376.05	3.00	0.00
Family Centre & Admin			Family_Centre_Admin		0		6.00	r	1638677.04	12117364.93	6.00	0.00
									1638693.29	12117383.76	6.00	0.00
									1638690.84	12117385.88	6.00	0.00
									1638696.03	12117391.88	6.00	0.00
									1638698.52	12117389.73	6.00	0.00
									1638714.43	12117408.15	6.00	0.00
									1638751.76	12117375.91	6.00	0.00
									1638737.47	12117359.38	6.00	0.00
									1638730.30	12117365.58	6.00	0.00
									1638732.57	12117368.21	6.00	0.00
									1638721.27	12117377.98	6.00	0.00
									1638689.54	12117341.22	6.00	0.00
									1638673.25	12117355.32	6.00	0.00
									1638672.18	12117354.18	6.00	0.00
									1638667.60	12117358.04	6.00	0.00
									1638674.89	12117366.76	6.00	0.00
Hotel			Hotel		0		21.00	r	1638700.69	12117379.43	21.00	0.00
									1638697.46	12117375.70	21.00	0.00
									1638693.14	12117379.25	21.00	0.00
									1638638.06	12117315.04	21.00	0.00
									1638640.61	12117312.86	21.00	0.00
									1638638.56	12117310.46	21.00	0.00
									1638644.74	12117305.18	21.00	0.00
									1638646.88	12117307.69	21.00	0.00
									1638653.78	12117301.79	21.00	0.00
									1638715.92	12117374.57	21.00	0.00
									1638708.64	12117380.77	21.00	0.00

Name	Sel.	M.	ID	RB	Residents	Absorption	Height		Coordinates			
							Begin		x	y	z	Ground
							(m)		(m)	(m)	(m)	(m)
									1638704.63	12117376.07	21.00	0.00
Water Park (Assumed 3 Storeys - Mech Brief)			Water_Park		0	0.21	9.00	r	1638714.36	12117408.07	9.00	0.00
									1638749.91	12117449.60	9.00	0.00
									1638836.19	12117374.94	9.00	0.00
									1638800.49	12117333.49	9.00	0.00
425 Culdaff Residential Building			425Culdaff	x	0		18.00	r	1638750.88	12117236.64	18.00	0.00
									1638738.17	12117222.30	18.00	0.00
									1638739.53	12117195.97	18.00	0.00
									1638790.27	12117150.57	18.00	0.00
									1638816.14	12117152.04	18.00	0.00
									1638843.39	12117183.03	18.00	0.00
									1638829.55	12117195.19	18.00	0.00
									1638805.60	12117167.72	18.00	0.00
									1638799.25	12117167.38	18.00	0.00
									1638755.09	12117206.77	18.00	0.00
									1638754.75	12117213.01	18.00	0.00
									1638764.74	12117224.48	18.00	0.00
2765 Palladium Dr_Bldg A			2765Palladium_A	x	0	0.37	18.00	r	1638777.00	12117266.46	18.00	0.00
									1638833.40	12117331.87	18.00	0.00
									1638847.04	12117320.10	18.00	0.00
									1638790.58	12117254.62	18.00	0.00
2765 Palladium Dr_Bldg B			2765Palladium_B	x	0		18.00	r	1638849.79	12117345.21	18.00	0.00
									1638862.05	12117358.90	18.00	0.00
									1638916.46	12117311.33	18.00	0.00
									1638918.08	12117285.02	18.00	0.00
									1638906.01	12117270.97	18.00	0.00
									1638892.16	12117282.86	18.00	0.00
									1638901.89	12117293.85	18.00	0.00
									1638901.17	12117299.98	18.00	0.00
2765 Palladium Dr_Bldg C			2765Palladium_C	x	0		18.00	r	1638889.20	12117264.49	18.00	0.00
									1638853.97	12117222.14	18.00	0.00
									1638868.08	12117210.41	18.00	0.00
									1638903.16	12117252.58	18.00	0.00

3D Reflector

Name	Sel.	M.	ID	Type	Attenuation	B	m	Height
					dB/100m	%	1/m	(m)

Geometry Absorption

Name	Sel.	M.	ID	Type	Attenuation	B	m	Height	Coordinates			
					dB/100m	%	1/m	(m)	x	y	z	Ground
									(m)	(m)	(m)	(m)

Ground Absorption

Name	Sel.	M.	ID	G
Parking Area			G01	0.0
Parking Area			G01	0.0
425 Culdaff Parking Area			G02	0.0

Geometry Absorption

Name	Sel.	M.	ID	G	Coordinates	
					x	y
					(m)	(m)
Parking Area			G01	0.0	1638617.70	12117286.00
					1638613.91	12117283.47
					1638611.38	12117279.69
					1638610.49	12117275.22
					1638611.38	12117270.75
					1638613.91	12117266.96
					1638617.70	12117264.43
					1638622.17	12117263.54
					1638626.63	12117264.43
					1638633.01	12117259.67
					1638617.87	12117243.10
					1638614.59	12117245.65
					1638549.44	12117171.19
					1638554.55	12117166.95
					1638550.20	12117162.29

Name	Sel.	M.	ID	G	Coordinates	
					x	y
					(m)	(m)
					1638617.02	12117104.26
					1638620.55	12117108.37
					1638624.94	12117104.36
					1638694.32	12117185.10
					1638690.60	12117188.34
					1638695.56	12117194.45
					1638697.95	12117195.88
					1638701.48	12117196.46
					1638704.63	12117195.79
					1638708.92	12117192.26
					1638741.85	12117163.91
					1638747.10	12117169.64
					1638713.12	12117199.89
					1638711.02	12117202.28
					1638709.59	12117204.95
					1638709.21	12117208.00
					1638709.40	12117211.15
					1638710.38	12117213.43
					1638783.99	12117297.52
					1638785.98	12117301.54
					1638786.61	12117304.87
					1638786.43	12117308.47
					1638786.52	12117311.17
					1638787.51	12117312.70
					1638788.77	12117313.35
					1638789.94	12117313.15
					1638795.97	12117308.02
					1638808.43	12117322.57
					1638794.09	12117335.09
					1638783.53	12117322.00
					1638781.53	12117320.02
					1638779.87	12117319.83
					1638778.33	12117319.97
					1638777.33	12117320.35
					1638730.59	12117362.16
					1638723.23	12117364.41
					1638715.25	12117363.19
					1638708.29	12117358.28
					1638691.31	12117338.64
					1638664.10	12117361.96
					1638628.10	12117319.41
					1638625.03	12117314.50
					1638623.39	12117307.13
					1638622.17	12117296.90
Parking Area			G01	0.0	1638649.06	12117579.48
					1638788.08	12117464.97
					1638885.63	12117375.27
					1638900.02	12117356.16
					1638913.96	12117340.65
					1638928.35	12117325.36
					1638935.32	12117314.12
					1638938.47	12117301.98
					1638938.47	12117291.19
					1638936.44	12117283.77
					1638931.05	12117272.53
					1638899.80	12117231.61
					1638858.88	12117182.60
					1638809.02	12117121.74
					1638807.65	12117120.46
					1638805.64	12117119.82
					1638803.72	12117120.01
					1638801.90	12117121.10
					1638798.43	12117123.84
					1638745.56	12117170.86
					1638740.36	12117165.20
					1638742.91	12117163.01
					1638743.82	12117161.64
					1638744.10	12117160.36
					1638743.92	12117159.08

Name	Sel.	M.	ID	G	Coordinates	
					x	y
					(m)	(m)
					1638742.36	12117156.89
					1638713.88	12117124.75
					1638684.18	12117090.84
					1638682.53	12117086.62
					1638682.35	12117081.12
					1638684.00	12117076.91
					1638686.20	12117073.79
					1638729.09	12117036.95
					1638730.96	12117034.02
					1638731.08	12117032.73
					1638730.73	12117031.09
					1638730.03	12117029.45
					1638728.62	12117028.05
					1638726.63	12117026.76
					1638723.24	12117026.06
					1638709.82	12117010.76
					1638717.24	12117004.28
					1638747.64	12117039.02
					1638742.15	12117043.52
					1638741.21	12117042.61
					1638739.98	12117041.90
					1638738.60	12117041.76
					1638737.26	12117041.73
					1638736.27	12117042.07
					1638695.24	12117078.72
					1638693.87	12117080.98
					1638693.46	12117082.92
					1638693.46	12117085.12
					1638693.69	12117086.88
					1638694.09	12117088.09
					1638695.17	12117089.72
					1638696.66	12117091.65
					1638740.67	12117141.66
					1638742.75	12117144.16
					1638743.60	12117146.88
					1638744.62	12117148.02
					1638749.10	12117152.89
					1638750.52	12117153.41
					1638752.22	12117153.46
					1638753.64	12117153.06
					1638755.40	12117152.10
					1638756.76	12117150.46
					1638758.29	12117148.75
					1638759.31	12117145.80
					1638760.67	12117143.93
					1638794.31	12117114.49
					1638795.42	12117113.87
					1638796.22	12117113.43
					1638796.98	12117112.61
					1638797.39	12117111.58
					1638797.60	12117110.26
					1638797.67	12117109.05
					1638797.46	12117108.05
					1638745.93	12117050.19
					1638743.48	12117045.70
					1638742.17	12117043.55
					1638747.67	12117039.04
					1638803.88	12117103.29
					1638805.29	12117104.11
					1638807.18	12117104.47
					1638809.30	12117104.00
					1638842.61	12117074.45
					1638852.61	12117065.29
					1638854.03	12117063.22
					1638854.41	12117061.14
					1638854.22	12117058.97
					1638810.44	12117008.97
					1638816.76	12117003.50
					1638853.75	12117045.20

Name	Sel.	M.	ID	G	Coordinates	
					x	y
					(m)	(m)
					1638855.16	12117048.69
					1638857.24	12117051.71
					1638859.22	12117053.50
					1638861.29	12117054.35
					1638863.84	12117054.16
					1638865.54	12117053.12
					1638867.43	12117051.14
					1638899.88	12117009.82
					1638906.86	12117015.29
					1638888.56	12117038.88
					1638887.81	12117041.33
					1638888.28	12117043.31
					1638889.88	12117046.05
					1638902.05	12117059.54
					1638913.47	12117072.94
					1638969.19	12117135.38
					1638972.55	12117137.82
					1638977.13	12117139.50
					1638982.78	12117137.82
					1638999.73	12117124.08
					1639002.47	12117120.72
					1639002.78	12117118.28
					1639002.02	12117116.14
					1638913.16	12117015.84
					1638918.50	12117010.65
					1639005.22	12117107.75
					1639008.73	12117111.26
					1639011.02	12117112.17
					1639013.77	12117111.71
					1639015.60	12117110.19
					1639030.41	12117094.00
					1639032.25	12117091.41
					1639033.16	12117088.05
					1639033.16	12117086.07
					1639032.25	12117083.01
					1639029.96	12117080.11
					1638968.43	12117011.71
					1638974.99	12117006.68
					1639040.49	12117079.04
					1639043.24	12117083.47
					1639044.15	12117089.12
					1639043.09	12117093.24
					1639040.49	12117097.52
					1638985.99	12117146.22
					1638982.41	12117148.24
					1638979.08	12117149.32
					1638975.62	12117149.67
					1638971.69	12117149.20
					1638968.24	12117147.17
					1638960.14	12117138.00
					1638888.45	12117057.69
					1638887.88	12117055.42
					1638886.74	12117053.05
					1638885.23	12117051.44
					1638883.15	12117050.40
					1638880.59	12117050.02
					1638878.13	12117051.63
					1638863.16	12117067.35
					1638837.59	12117090.36
					1638815.17	12117109.53
					1638814.49	12117110.66
					1638814.41	12117112.79
					1638814.87	12117114.98
					1638820.47	12117121.57
					1638833.42	12117136.27
					1638882.43	12117191.25
					1638890.55	12117199.52
					1638915.90	12117224.87
					1638928.58	12117238.12

Name	Sel.	M.	ID	G	Coordinates	
					x	y
					(m)	(m)
					1638933.45	12117245.11
					1638941.42	12117255.83
					1638946.82	12117262.47
					1638952.75	12117267.60
					1638961.96	12117272.65
					1638966.74	12117274.24
					1638972.58	12117274.86
					1638977.54	12117274.51
					1638980.55	12117273.80
					1638986.57	12117271.23
					1638991.44	12117267.51
					1639008.26	12117251.75
					1639021.37	12117239.45
					1639035.44	12117227.14
					1639075.57	12117191.39
					1639089.74	12117208.82
					1639016.22	12117272.33
					1639010.46	12117277.86
					1639006.08	12117283.63
					1639003.54	12117289.39
					1638999.85	12117300.11
					1638997.66	12117309.67
					1638996.28	12117318.55
					1638996.40	12117327.08
					1638997.32	12117331.34
					1638999.16	12117335.38
					1639001.81	12117342.64
					1639004.00	12117348.52
					1639005.27	12117352.78
					1639005.96	12117358.78
					1639006.31	12117366.27
					1639007.23	12117375.72
					1639009.18	12117391.10
					1639013.82	12117414.55
					1639021.15	12117434.58
					1639030.68	12117456.07
					1639042.89	12117477.07
					1639054.61	12117496.12
					1639081.96	12117534.71
					1639071.22	12117545.70
					1639049.73	12117515.66
					1639036.78	12117496.37
					1639024.08	12117474.88
					1639013.82	12117457.05
					1639004.06	12117438.00
					1638996.48	12117419.19
					1638991.11	12117399.65
					1638988.18	12117386.46
					1638983.30	12117375.23
					1638976.46	12117367.66
					1638968.89	12117362.77
					1638961.07	12117359.60
					1638951.79	12117358.62
					1638946.17	12117359.11
					1638938.85	12117361.31
					1638927.37	12117368.39
					1638916.87	12117375.96
					1638777.17	12117514.20
					1638716.08	12117582.72
425 Culdaff Parking Area			G02	0.0	1638859.05	12117182.80
					1638855.05	12117185.30
					1638847.40	12117192.09
					1638851.01	12117196.16
					1638836.79	12117209.78
					1638879.12	12117257.83
					1638884.45	12117272.65
					1638902.38	12117257.69
					1638908.05	12117264.63
					1638887.69	12117282.20

Name	Sel.	M.	ID	G	Coordinates	
					x	y
					(m)	(m)
					1638888.27	12117285.01
					1638897.78	12117295.93
					1638849.72	12117338.42
					1638841.86	12117329.25
					1638852.81	12117319.62
					1638792.17	12117249.54
					1638773.43	12117266.87
					1638769.85	12117263.10
					1638768.40	12117264.48
					1638763.58	12117259.44
					1638765.13	12117257.93
					1638761.52	12117254.20
					1638767.27	12117248.63
					1638768.20	12117247.74
					1638755.08	12117232.69
					1638760.37	12117228.15
					1638776.39	12117246.63
					1638776.64	12117246.77
					1638777.00	12117246.84
					1638777.32	12117246.70
					1638777.78	12117246.38
					1638784.54	12117240.23
					1638785.26	12117238.94
					1638785.54	12117237.62
					1638785.44	12117235.73
					1638785.01	12117235.01
					1638784.72	12117234.62
					1638781.47	12117237.48
					1638762.23	12117215.45
					1638766.49	12117211.66
					1638763.14	12117207.90
					1638799.86	12117174.42
					1638803.31	12117178.21
					1638807.00	12117174.84
					1638829.02	12117199.76
					1638850.98	12117180.01
					1638853.25	12117176.55
					1638853.20	12117175.75

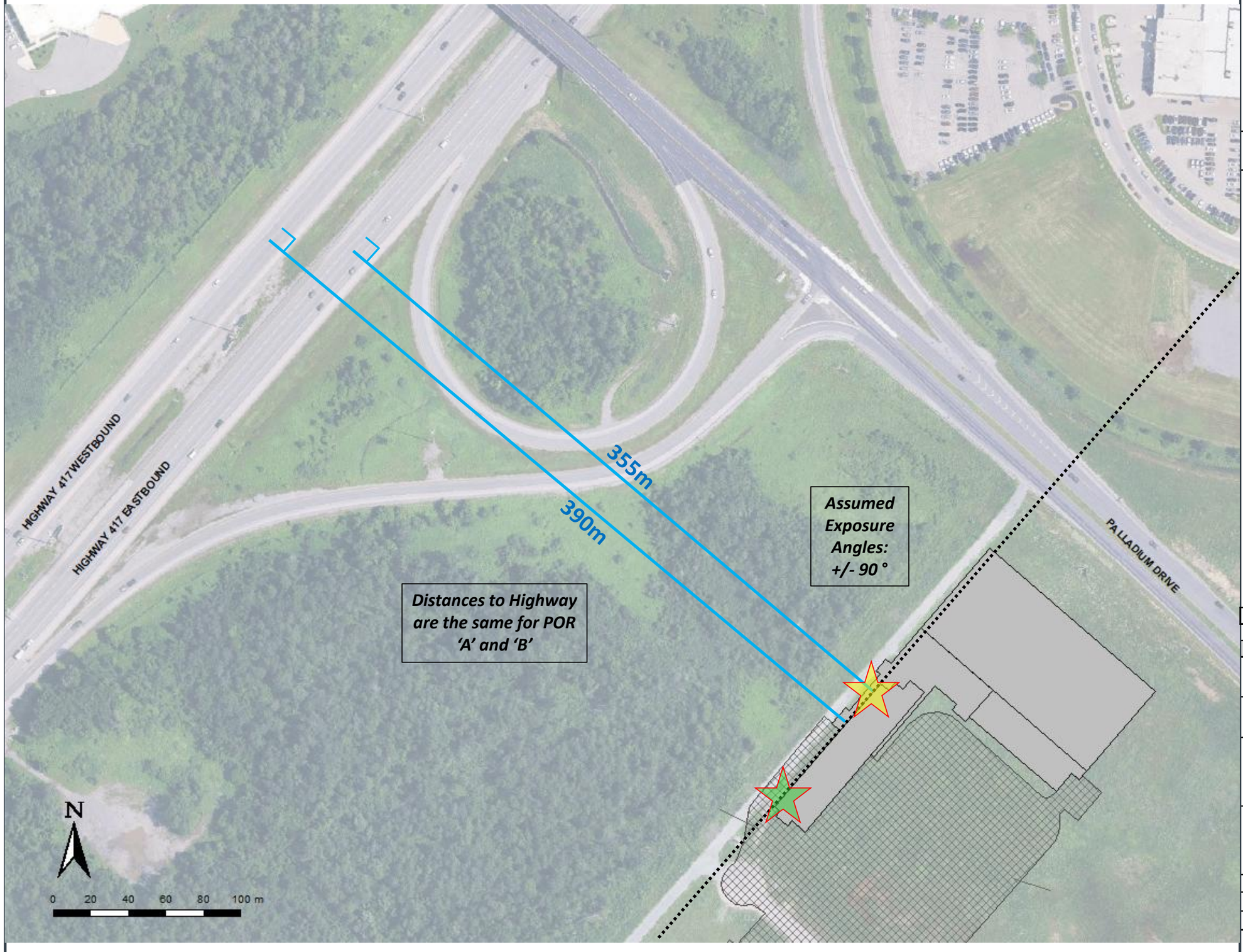
Contour Lines

Geometry Contour Line

Name	Sel.	M.	ID	OnlyPts	Height		Coordinates		
					Begin	End	x	y	z
					(m)	(m)	(m)	(m)	(m)

Appendix F: Transportation Corridor NIS Figures

Figure F1: Transportation Corridor Noise Impact Details



ENGLOBE

Note:
This drawing shall be read in conjunction with the associated report

Legend:

★ : Point of Reception POR 'A'

★ : Point of Reception POR 'B'

REVISION	DATE	ISSUE	APPROVAL
1	2026/09/25	FINAL	M.V.
0	2026/06/25	FINAL	M.V.

Client	Palladium Resort Development Limited Partnership
Project Name	Palladium Resort Development Noise Impact Study (NIS)
Report Title	Palladium Resort Development Noise Impact Study (NIS)
Drawing Title	Transportation Corridor Noise Impact Details

Designed By		Scale	NTS
Drawn By	M.V.	Date	25 June 2026
Approved By		Project No.	02631107.000
Figure No.	F1		

Copyright © 2026 Englobe Corp

Appendix G:
Transportation Corridor NIS Results



ENGLOBE

REPORT:	**INPUT TRAFFIC FOR TNM VEHICLES (LAeq)**		
TNM VERSION:	3.2.8741.34338	REPORT DATE:	25 June 2026
CALCULATED WITH:	TNM v3.2.8741.34338	CALCULATION DATE:	25/06/2026 1:52:09 PM
CASE:	Palladium Resort Development	ORGANIZATION:	Englobe Corp
PATH:		ANALYSIS BY:	Martin Villeneuve
CALCULATION SEQUENCE NUMBER:		TNM SERIAL NUMBER:	
		PROJECT/CONTRACT:	Palladium Resort Development

Roadway Name	Road Segment			Auto		Medium Truck		Heavy Truck		Bus		Motorcycle	
	Start Point		Total Volume	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed
	Name	No.	[Veh/hr]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]
Highway 417 (Eastbound)-3Lanes	Point-0	0	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-4	3	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-5	4	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-1	1	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-6	5	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-7	6	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-3	2	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
Highway 417 (Westbound)-3Lanes	Point-8	7	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-9	8	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-11	9	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-13	10	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-15	11	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-17	12	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-19	13	3162	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0

Roadway Name	Road Segment			Auto		Medium Truck		Heavy Truck		Bus		Motorcycle	
	Start Point		Total Volume	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed
	Name	No.											
			[Veh/hr]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]
Highway 417 (Eastbound Offramp)-1Lane	Point-20	14	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-21	15	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-23	16	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-25	17	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-27	18	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-29	19	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-31	20	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-33	21	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-35	22	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-37	23	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-39	24	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-41	25	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-43	26	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-45	27	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-47	28	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-49	29	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-51	30	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-53	31	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-55	32	1054	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
Highway 417 (Eastbound Onramp)-1Lane	Point-56	33	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-57	34	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-59	35	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0

Roadway Name	Road Segment			Auto		Medium Truck		Heavy Truck		Bus		Motorcycle	
	Start Point		Total Volume	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed
	Name	No.											
			[Veh/hr]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]
Highway 417 (Eastbound Onramp)-1Lane	Point-61	36	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-63	37	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-65	38	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-67	39	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-69	40	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-71	41	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-73	42	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-75	43	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-77	44	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-79	45	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-81	46	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-83	47	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-85	48	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-87	49	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-89	50	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-91	51	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-93	52	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-95	53	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-97	54	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-99	55	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-101	56	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-103	57	1054	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0

REPORT:	**Results: Sound Levels - No Barrier Objects**		
TNM VERSION	3.2.8741.34338	REPORT DATE:	25 June 2026
CALCULATED WITH:	TNM v3.2.8741.34338	CALCULATION DATE:	25/06/2026 1:52:09 PM
CASE:	Palladium Resort Development	ORGANIZATION:	Englobe Corp
UNITS:	Metric	ANALYSIS BY:	Martin Villeneuve
DEFAULT GROUND TYPE:	FieldGrass	PROJECT/CONTRACT	Palladium Resort Development
ATMOSPHERICS:	20°C, 50%	Average pavement type shall be used unless a state highway agency substantiates the use of a different type with approval FHWA.	
PAVEMENT TYPE(S) USED:	Average		

Receiver				Modeled Traffic Noise Levels				
				LAeq		Increase over Existing		
Name	No.	Nb. R.R.	Existing LAeq	Calc.	Absolute Criterion	Calc.	Relative Criterion	Type of Impact
			dBA	dBA	dBA	dBA	dBA	
Hotel (Conference Room - Main Floor)	1	1	---	50.3	0.0	---	---	Sound Level

REPORT:	**INPUT TRAFFIC FOR TNM VEHICLES (LAeq)**		
TNM VERSION:	3.2.8741.34338	REPORT DATE:	25 June 2026
CALCULATED WITH:	TNM v3.2.8741.34338	CALCULATION DATE:	25/06/2026 3:32:55 PM
CASE:	Palladium Resort Development	ORGANIZATION:	Englobe Corp
PATH:		ANALYSIS BY:	Martin Villeneuve
CALCULATION SEQUENCE NUMBER:		TNM SERIAL NUMBER:	
		PROJECT/CONTRACT:	Palladium Resort Development

Roadway Name	Road Segment			Auto		Medium Truck		Heavy Truck		Bus		Motorcycle	
	Start Point		Total Volume	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed
	Name	No.	[Veh/hr]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]
Highway 417 (Eastbound)-3Lanes	Point-0	0	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-4	3	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-5	4	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-1	1	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-6	5	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-7	6	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-3	2	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
Highway 417 (Westbound)-3Lanes	Point-8	7	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-9	8	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-11	9	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-13	10	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-15	11	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-17	12	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0
	Point-19	13	550	88.0	110	7.0	110	5.0	110	0.0	0	0.0	0

Roadway Name	Road Segment			Auto		Medium Truck		Heavy Truck		Bus		Motorcycle	
	Start Point		Total Volume	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed
	Name	No.											
			[Veh/hr]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]
Highway 417 (Eastbound Offramp)-1Lane	Point-20	14	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-21	15	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-23	16	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-25	17	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-27	18	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-29	19	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-31	20	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-33	21	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-35	22	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-37	23	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-39	24	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-41	25	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-43	26	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-45	27	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-47	28	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-49	29	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-51	30	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-53	31	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
	Point-55	32	183	88.0	60	7.0	60	5.0	60	0.0	0	0.0	0
Highway 417 (Eastbound Onramp)-1Lane	Point-56	33	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-57	34	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-59	35	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0

Roadway Name	Road Segment			Auto		Medium Truck		Heavy Truck		Bus		Motorcycle	
	Start Point		Total Volume	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed	Percent	Speed
	Name	No.											
			[Veh/hr]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]	[%]	[km/h]
Highway 417 (Eastbound Onramp)-1Lane	Point-61	36	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-63	37	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-65	38	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-67	39	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-69	40	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-71	41	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-73	42	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-75	43	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-77	44	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-79	45	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-81	46	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-83	47	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-85	48	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-87	49	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-89	50	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-91	51	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-93	52	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-95	53	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-97	54	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-99	55	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-101	56	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0
	Point-103	57	183	88.0	40	7.0	40	5.0	40	0.0	0	0.0	0

REPORT:	**Results: Sound Levels - No Barrier Objects**		
TNM VERSION	3.2.8741.34338	REPORT DATE:	25 June 2026
CALCULATED WITH:	TNM v3.2.8741.34338	CALCULATION DATE:	25/06/2026 3:32:55 PM
CASE:	Palladium Resort Development	ORGANIZATION:	Englobe Corp
UNITS:	Metric	ANALYSIS BY:	Martin Villeneuve
DEFAULT GROUND TYPE:	FieldGrass	PROJECT/CONTRACT	Palladium Resort Development
ATMOSPHERICS:	20°C, 50%	Average pavement type shall be used unless a state highway agency substantiates the use of a different type with approval FHWA.	
PAVEMENT TYPE(S) USED:	Average		

Receiver				Modeled Traffic Noise Levels				
				LAeq		Increase over Existing		
Name	No.	Nb. R.R.	Existing LAeq	Calc.	Absolute Criterion	Calc.	Relative Criterion	Type of Impact
			dBA	dBA	dBA	dBA	dBA	
Hotel (Hotel Room - Top Floor)	1	1	---	53.3	0.0	---	---	Sound Level

Appendix H:
Statement of Limitations



ENGLOBE

STATEMENT OF LIMITATIONS

This report (hereinafter, the “Report”) was prepared by Englobe Corp. (hereinafter the “Company”) and is provided for the sole and exclusive use and benefit of Pye & Richards - Temprano & Young Architects Inc. (the “Client”). Ownership in and copyright for the contents of the Report belong to the Company.

No other person is authorized to rely on, use, copy, duplicate, reproduce or disseminate this Report, in whole or in part and for any reason whatsoever, without the express prior written consent of the Company. Any person using this Report, other than the person(s) to whom it is directly addressed, does so entirely at its own risk. The Company assumes no responsibility or liability in connection with decisions made or actions taken based on the Report, or the observations and/or comments contained within the Report. Others with interest in the site and/or subject matter of this Report should undertake their own investigations and studies to determine how or if they or their plans could be affected.

This Report should be considered in its entirety; selecting specific portions of the Report may result in the misinterpretation of the content.

The work performed by the Company was carried out in accordance with the terms and conditions specified in the Professional Services Agreement between the Company and the Client, currently accepted engineering standards and practices and in a manner consistent with the level of skill, care and competence ordinarily exercised by members of the same profession currently practicing under similar conditions and like circumstances in the same jurisdiction in which the services were provided. Standards, guidelines and practices may change over time; those which were applied to produce this Report may be obsolete or unacceptable at a later date.

The findings, recommendations, suggestions, or opinions expressed in this Report reflect the Company’s best professional judgment based on observations and/or information reasonably available at the time the work was performed. No other warranty or representation, expressed or implied, is included in this Report including, but not limited to, that the Report deals with all issues potentially applicable to the site and/or that the Report deals with any and all of the important features of the site, except as expressly provided in the scope of work.

This Report has been prepared for the specific site, development, building, design or building assessment objectives and/or purposes that were understood by the Company. The applicability and reliability of the content of this Report, subject to the limitations provided herein, are only valid to the extent that there has been no material alteration or variation thereto, and the Company expressly disclaims any obligation to update the Report. However, the Company reserves the right to amend or supplement this Report based on additional information, documentation or evidence made available to it.

The Company makes no representation concerning the legal significance of its findings, nor as to the present or future value of the property, or its fitness for a particular purpose and hereby disclaims any responsibility or liability for consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

Since the passage of time, natural occurrences, and direct or indirect human intervention may affect the views, conclusions and recommendations (if any) provided in this Report, it is intended for immediate use.

In preparing this Report, the Company has relied in good faith on information available to the Company and has assumed that such information is factual, accurate and complete. The Company accepts no responsibility or liability for any deficiency, misstatement or inaccuracy in this Report resulting from the information provided, concealed or not fully disclosed by those individuals.

This Statement of Limitations forms an integral part of the Report.