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430 Raglan Street, Collingwood

NOISE IMPACT STUDY

Tin Shack Ltd.

Document Control

File:

118188

Date:

August
25, 2026

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Issue	Date	Description
1	August 25, 2026	Final report

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1 Introduction

Tatham Engineering Limited (Tatham) was retained by Tin Shack Ltd. to provide engineering services in support of the site plan approval application for a proposed new warehouse building (the Proposed Development) located at 430 Raglan Street, in the Town of Collingwood.

1.1 PURPOSE AND SCOPE OF ASSESSMENT

This Noise Impact Assessment has been prepared in support of the site plan approval application for the proposed development. The purpose of the assessment is to evaluate potential noise impacts from the proposed warehouse operations on the surrounding environment, including nearby sensitive noise receptors, in accordance with applicable MECP noise guidelines.

No significant sources of vibration were identified in the area of the proposed development; therefore, a vibration assessment is not deemed required.

1.2 SITE INFORMATION

The proposed development is located at 430 Raglan Street in the Town of Collingwood. Currently, the site is vacant with plans to construct a new warehouse building with paved parking and loading areas for trucks and trailers, and a stormwater management pond. The proposed site plan and drawings are included in Appendix A and Figure 1.

1.3 ZONING BY-LAW

The proposed development site is currently zoned as Industrial under the Town of Collingwood Zoning By-Law 2010-40. The zoning map is presented in Figure 2.

As per the Town of Collingwood Zoning By-Law 2010-40, the surrounding land use includes:

- **North:** Zoned as Industrial.
- **East:** Zoned as Community Services (CS).
- **South:** Zoned as Recreation (REC).
- **West:** Zoned as Environmental Protection (EP) and zoned as Residential Third Density (R3) with various exceptions, including R3-8, R3-74, R3-75 immediately across the river.

1.4 HOURS OF OPERATION

The proposed hours of operation are from 7:00 to 19:00, including all shipping and receiving activities.



1.5 NOISE SOURCE CRITERIA

The MECP noise guideline for stationary sources impacting sensitive points of reception is outlined in Publication NPC-300, Environmental Noise Guideline – Stationary and Transportation Sources: Approval and Planning (August 2013).

For steady (non-impulsive) sound sources, the applicable performance criteria are expressed as the one-hour equivalent sound level (Leq, 1-hour, dBA). The sound level limits correspond to the higher of the NPC-300 exclusionary limits or the existing ambient sound levels. According to MECP Publication NPC-300, the proposed development site and surrounding area fall under a Class 2 acoustic environment. This designation applies to areas typical of population centres, where daytime background noise (from 07:00 to 19:00) is primarily influenced by human activity and road traffic. During evening and nighttime hours (19:00 to 23:00 and 23:00 to 07:00), background noise levels are generally lower, with natural sounds and occasional human activity.

For this assessment, the applicable Class 2 exclusionary limits are presented below for outdoor living areas (OLA) and plane-of-window (POW) locations.

Impulsive sound sources are assessed separately using the logarithmic mean impulse sound level (LIm, dBAI), with limits dependent on the number of impulses occurring within a one-hour period. The applicable criteria for a Class 2 area are also summarized below.

As the proposed facility operates during daytime hours only (07:00 to 19:00), nighttime criteria are not considered in this assessment.

Table 1. Exclusion Limit Values of One-Hour Equivalent Sound Level (Leq, dBA) – Class 2

POINT OF RECEPTION	TIME OF DAY	CLASS 2 SOUND PERFORMANCE CRITERIA (dBA)
Outdoor Living Area	07:00 – 19:00	50
Plane of Window	07:00 – 19:00	50

Table 2. Exclusion Limit Values for Impulsive Sound Level (LIm, dBAI), Outdoor Points of Reception

TIME OF DAY	ACTUAL NUMBER OF IMPULSES IN ONE HOUR	CLASS 2 AREA
07:00–23:00	9 or more	50
07:00–23:00	7 to 8	55
07:00–23:00	5 to 6	60



TIME OF DAY	ACTUAL NUMBER OF IMPULSES IN ONE HOUR	CLASS 2 AREA
07:00-23:00	4	65
07:00-23:00	3	70
07:00-23:00	2	75
07:00-23:00	1	80

Table 3. Exclusion Limit Values for Impulsive Sound Level (Lim, dBAI), Plane of Window – Noise Sensitive Spaces (Day/Night)

ACTUAL NUMBER OF IMPULSES IN ONE HOUR	CLASS 2 AREA (07:00-23:00 / 23:00-07:00)
9 or more	50 / 45
7 to 8	55 / 50
5 to 6	60 / 55
4	65 / 60
3	70 / 65
2	75 / 70
1	80 / 75

Since the loading/unloading and coupling/uncoupling activities are expected to generate 9 or more impulses in a one-hour period, the applicable Class 2 daytime impulsive sound level limit is 50 dBAI.



2 Noise Impacts of Proposed Development on Surrounding Environment

This section summarizes the impact of the proposed development on the surrounding environment.

2.1 SENSITIVE POINTS OF RECEPTION

Noise impacts from the proposed development were evaluated at nearby sensitive points of reception (POR), selected based on their proximity and likelihood of experiencing the highest impact. In accordance with NPC-300, both plane-of-window (POW) and outdoor living areas (OLA) were considered and assessed, as shown in Figure 3 and summarized in Table 4 below.

Table 4: Summary of Points of Reception

POINT OF RECEPTION	DESCRIPTION	LOCATION RELATIVE TO PROPOSED DEVELOPMENT	RECEPTOR HEIGHT
R1-POW	Plane of Window (vacant residential lot)	West	4.5 m
R1-OLA	Outdoor Living Area (vacant residential lot)	West	1.5 m
R2-POW	Plane of Window (existing 2-storey dwelling)	West	4.5 m
R2-OLA	Outdoor Living Area (existing dwelling)	West	1.5 m
R3-POW	Plane of Window (existing 2-storey dwelling)	West	4.5 m
R3-OLA	Outdoor Living Area (existing dwelling)	West	1.5 m
R4-POW	Plane of Window (vacant residential lot)	West	4.5 m
R4-OLA	Outdoor Living Area (vacant residential lot)	West	1.5 m



The land parcels located north, east and south of the proposed development are currently zoned as industrial, recreation, and community services. None of these parcels is considered sensitive noise receptors in this study.

2.2 NOISE SOURCES DESCRIPTION

The primary noise sources associated with the proposed warehouse development include truck movements along the site access route, truck idling at loading bays, and loading/unloading activities. The proposed development consists of a 4,060 m² warehouse building with associated truck loading and unloading areas.

Based on the information provided, the proposed warehouse building is not expected to include HVAC equipment. If rooftop units, exhaust fans, make-up air units, emergency generators, or other exterior mechanical equipment are introduced during detailed design, the noise assessment should be updated based on the new design.

As shown in Figure 3, the site plan identifies a single truck path providing access to the loading areas, with a total of six loading bay door positions.

Assumed daytime operation scenario:

- 12 trucks arrive and depart the site per hour.
- 6 trucks idle at the 6 loading bay doors for up to 5 minutes.
- Loading/unloading of trailers by forklifts (dock leveling impulsive noise) and coupling/uncoupling of trucks to/from trailers happen at the same time for 6 loading docks.

The sound power levels measured from similar facilities were used in our analysis. A summary of the modeled noise sources is provided in Table 5.

Table 5. Noise Source Summary

SOURCE ID	SOURCE DESCRIPTION	SOUND POWER LEVEL (dBA)	SOUND CHARACTERISTICS	SOURCE LOCATION	NOISE CONTROL MEASURE
TR	Truck Route	105.8	Steady	Outdoor	Uncontrolled
TI	Truck Idle	100.9	Steady	Outdoor	Uncontrolled

Impulsive noise sources are assessed separately from non-impulsive (steady) sound sources. Two types of impulsive noise are expected to be generated by the proposed facility: loading and unloading of trailers by forklifts (dock leveling) and coupling and uncoupling of trucks to and from trailers. Truck coupling was modeled at 116 dBAI and dock leveling was modeled at 108



dBAI. These values are based on representative data for similar industrial operations. The impulsive noise sources are assumed to occur only during daytime periods of operation.

2.3 NOISE ANALYSIS METHOD

The analysis was conducted using CadnaA v2026, an environmental noise modelling software that adheres to ISO Standard 9613-2: Acoustics – Attenuation of Sound during Propagation Outdoors. It considers attenuation due to distance, barrier, air attenuation and ground absorption.

2.4 NOISE IMPACT MODELLING RESULTS

2.4.1 Non-Impulsive Sources

The predicted sound levels due to the trucking activities (truck route and idling) at the closest sensitive noise receptors are summarized in the following table.

Table 6. Predicted Non-Impulsive Source Sound Levels at Residential Receptors, Unmitigated, Leq (dBA)

POR ID	DESCRIPTION	TIME PERIOD	PREDICTED SOUND LEVEL (dBA)	SOUND LEVEL LIMIT (dBA)	COMPLIANCE WITH PERFORMANCE LIMIT (Y/N)	AREA CLASS
R1- POW	Plane of Window (vacant residential lot)	Daytime	45.4	50	Y	Class 2
R1- OLA	Outdoor Living Area (vacant residential lot)	Daytime	45.8	50	Y	Class 2
R2- POW	Plane of Window (existing 2-storey dwelling)	Daytime	47.3	50	Y	Class 2
R2- OLA	Outdoor Living Area (existing dwelling)	Daytime	46.5	50	Y	Class 2



R3- POW	Plane of Window (existing 2-storey dwelling)	Daytime	46.9	50	Y	Class 2
R3- OLA	Outdoor Living Area (existing dwelling)	Daytime	46.1	50	Y	Class 2
R4- POW	Plane of Window (vacant residential lot)	Daytime	43.6	50	Y	Class 2
R4- OLA	Outdoor Living Area (vacant residential lot)	Daytime	43.0	50	Y	Class 2

The results presented in Table 6 indicate that the predicted non-impulsive sound levels comply with the applicable performance limit at all assessed receptors without mitigation. The predicted unmitigated steady-state noise contours and modelled source and receptor locations are shown in Figure 3.

2.4.2 Impulsive Sources

The predicted impulsive sound levels are summarized in the table below.

Table 7. Predicted Impulsive Source Sound Levels at Residential Receptors, Unmitigated, LIm (dBAI)

POR ID	DESCRIPTION	TIME PERIOD	PREDICTED SOUND LEVEL (dBAI)	SOUND LEVEL LIMIT (dBAI)	COMPLIANCE WITH PERFORMANCE LIMIT (Y/N)	AREA CLASS
R1- POW	Plane of Window (vacant residential lot)	Daytime	47.8	50	Y	Class 2



R1-OLA	Outdoor Area	Living (vacant residential lot)	Daytime	48.8	50	Y	Class 2
R2-POW	Plane of Window	(existing 2-storey dwelling)	Daytime	49.3	50	Y	Class 2
R2-OLA	Outdoor Area	Living (existing dwelling)	Daytime	49.4	50	Y	Class 2
R3-POW	Plane of Window	(existing 2-storey dwelling)	Daytime	49	50	Y	Class 2
R3-OLA	Outdoor Area	Living (existing dwelling)	Daytime	49.1	50	Y	Class 2
R4-POW	Plane of Window	(vacant residential lot)	Daytime	46.2	50	Y	Class 2
R4-OLA	Outdoor Area	Living (vacant residential lot)	Daytime	46.4	50	Y	Class 2

The results from the table above indicate that the predicted impulsive source sound levels at all assessed residential receptors are within the applicable Class 2 daytime sound level limit of 50 dBAI.



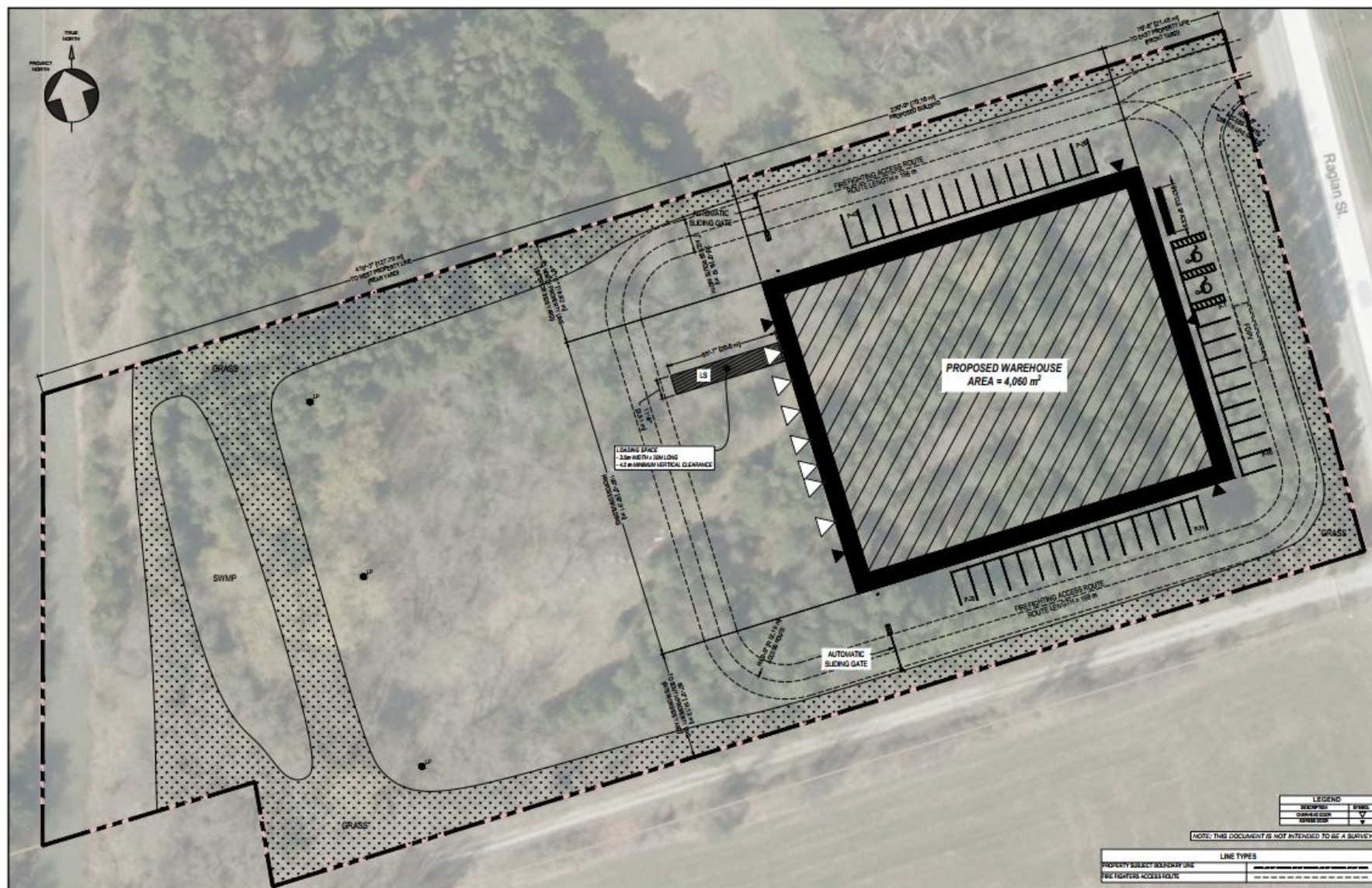
3 Summary

Tatham Engineering Limited was engaged by Tin Shack Ltd. to conduct a Noise Impact Assessment in support of the site plan approval application for a proposed warehouse building located at 430 Raglan Street in the Town of Collingwood.

The results of the analysis indicate that the unmitigated predicted sound levels due to non-impulsive and impulsive noise sources are within the applicable MECP limits at all nearest residential receptors located to the west of the proposed development.

The proposed development is not expected to impact the surrounding residential uses negatively. The results of this assessment should be updated if any changes to the site plan or location of the building or changes to the site grading happen in future.

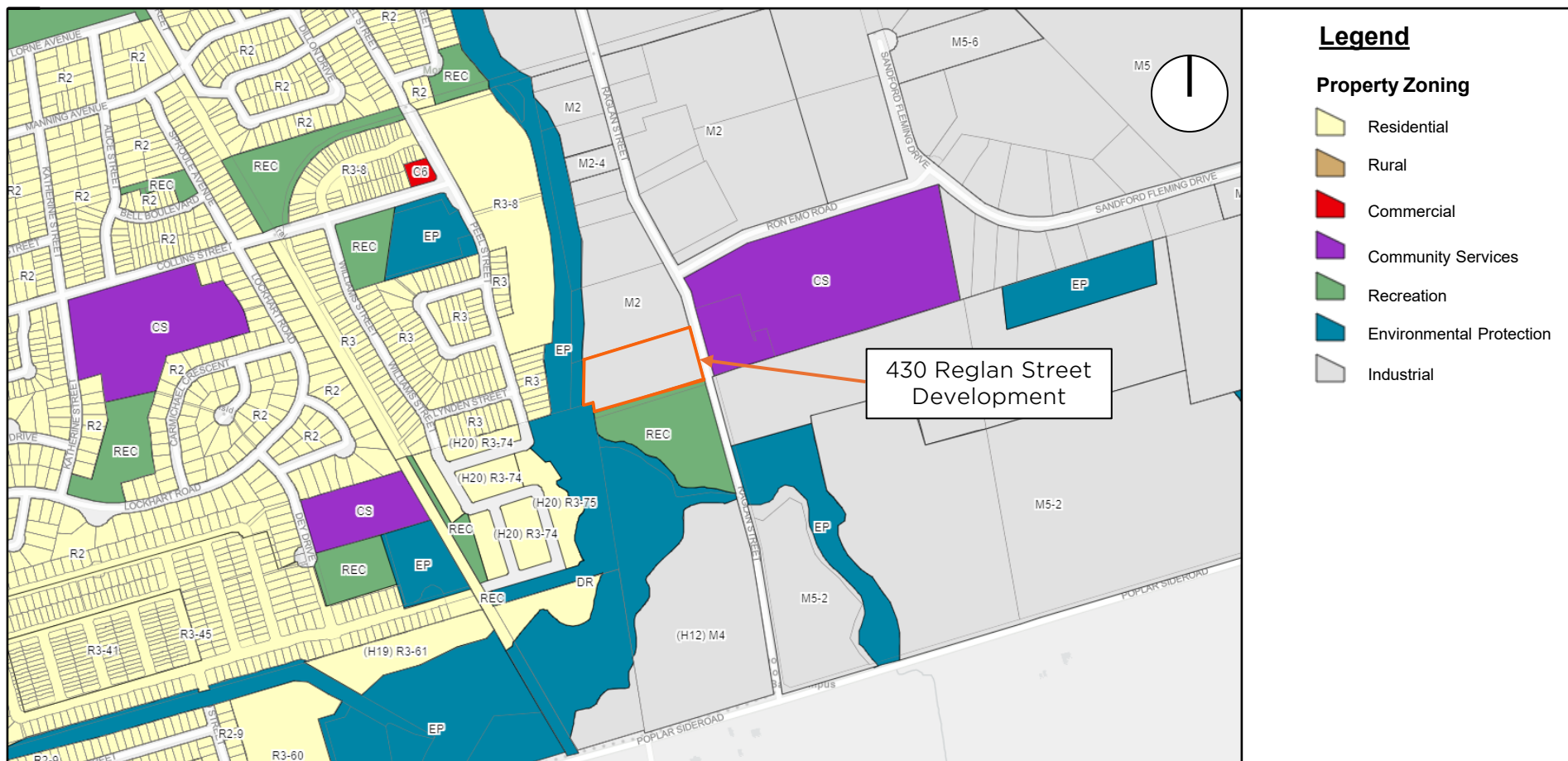




Tin Shack Ltd. – 430 Raglan Street, Collingwood – Noise Impact Study

Figure 1: Site Plan

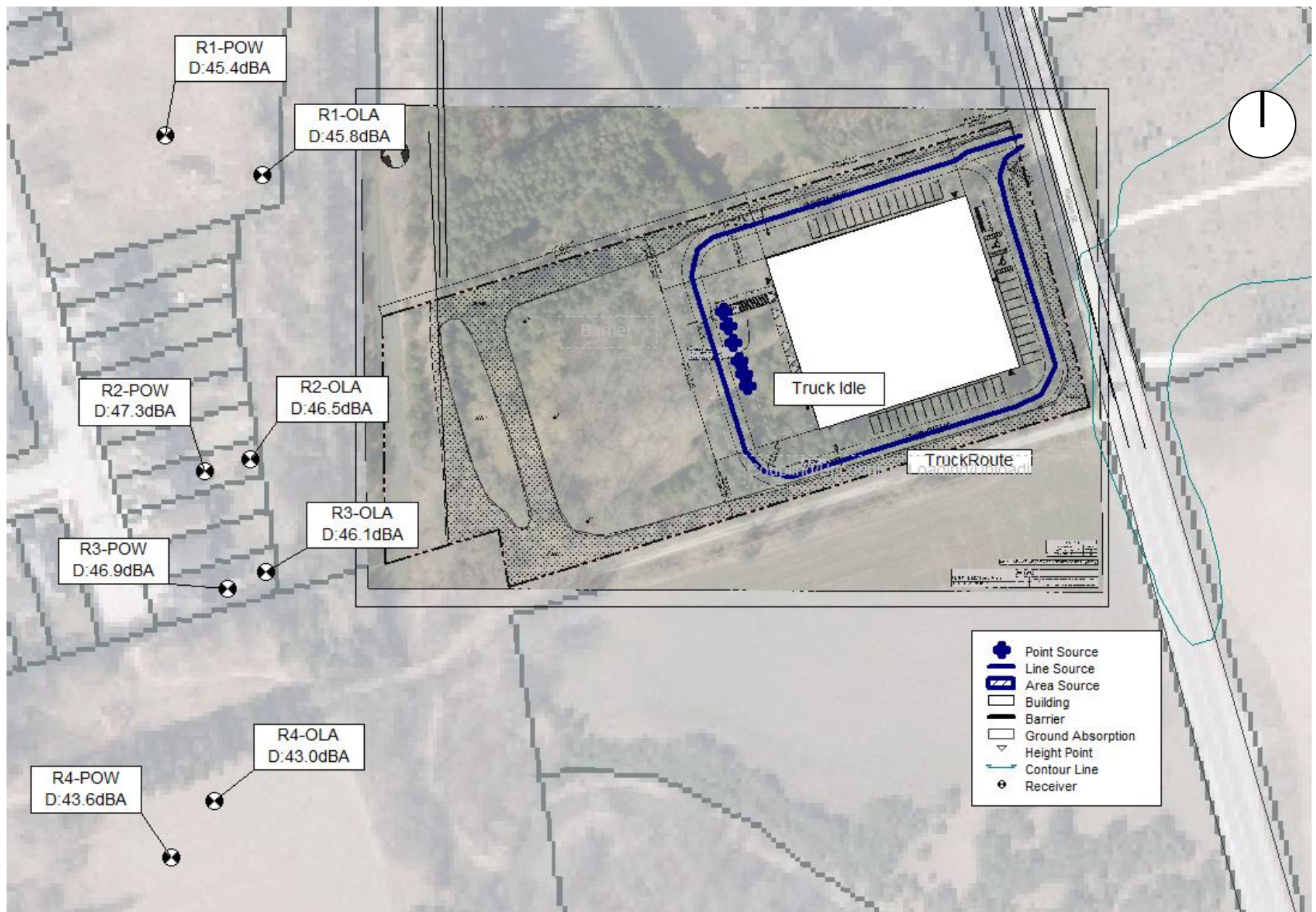




Tin Shack Ltd. – 430 Raglan Street, Collingwood – Noise Impact Study

Figure 2: Zoning Plan (Development and Surrounding Area)

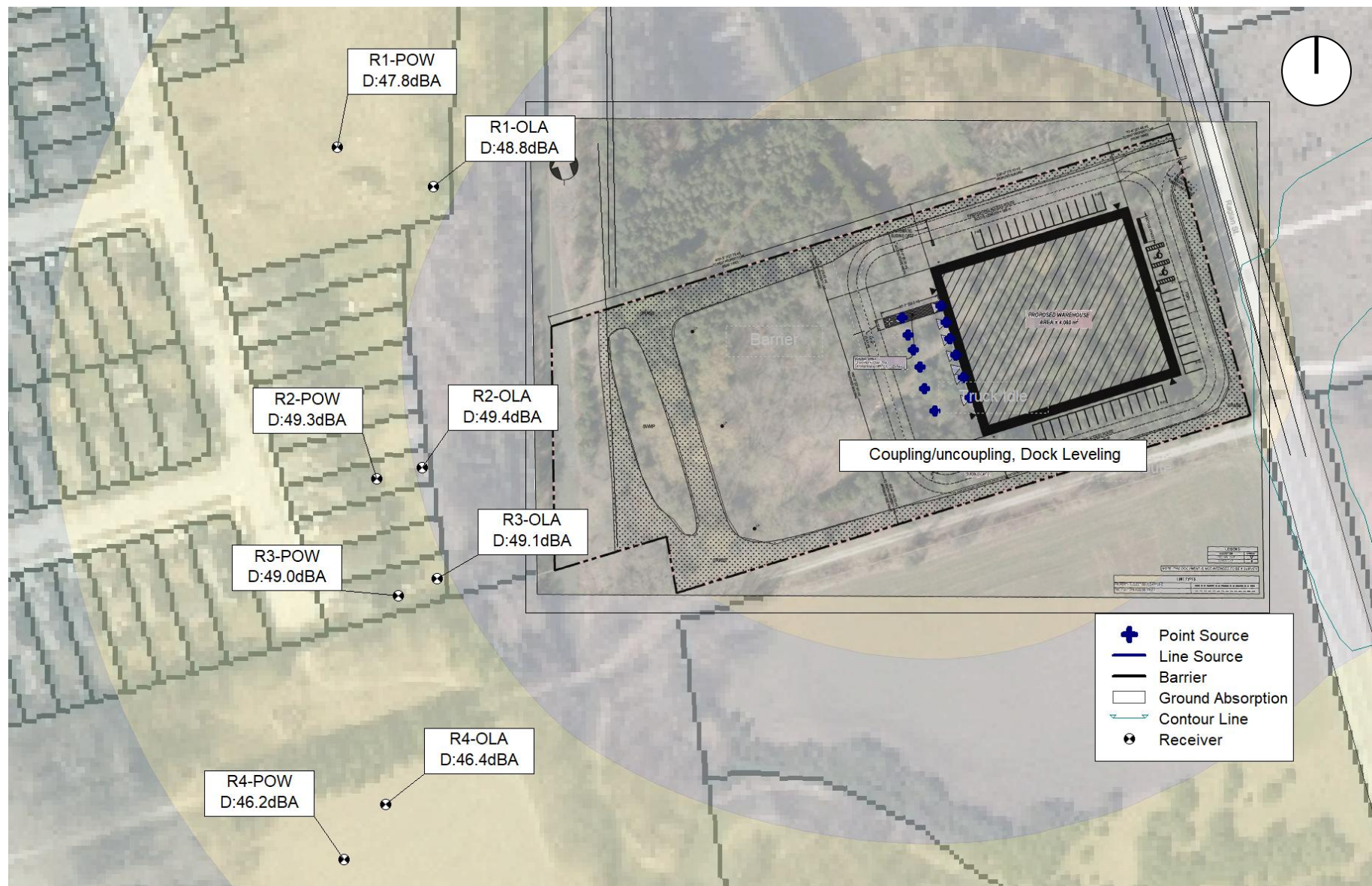




Tin Shack Ltd. – 430 Raglan Street, Collingwood – Noise Impact Study

Figure 3: Noise Model Source and Receptor Locations, and Predicted Noise Level – Steady State, Unmitigated





Tin Shack Ltd. – 430 Raglan Street, Collingwood – Noise Impact Study

Figure 4: Noise Model Source and Receptor Locations, and Predicted Noise Level – Impulsive, Unmitigated



Appendix A: Site Plan and Building Drawings

190'x230' WAREHOUSE

TIN SHACK LTD.

410 RAGLAN STREET
COLLINGWOOD, ONTARIO L9Y 5P9



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Drawings For
Tin Shack Review

VERSION 1 - SEPT. 8, 2025
VERSION 2 - SEPT. 10, 2025
VERSION 3 - SEPT. 11, 2025

DRAWING REVISIONS			
No.	DATE	REVISION	BY / APP'D

DRAWING RELEASE			
DATE	ISSUE	BY	APP'D
SEPT 6, 2025	FOR REVISION	RMM	HB

ENGINEER:

H.BYE ENGINEERING
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OWNER INFORMATION:

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TIN SHACK
TIN SHACK LTD.
31 STEWART ROAD
COLLINGWOOD, ON. L9Y 0C5

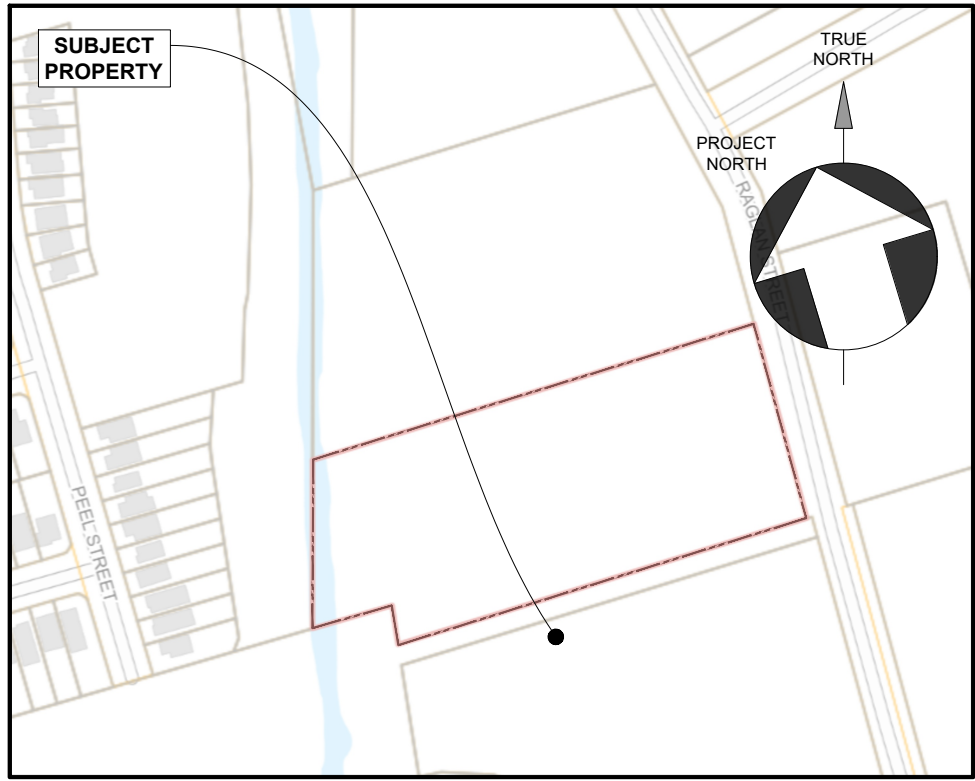
PROJECT NAME / LOCATION:

190'x230' WAREHOUSE
410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

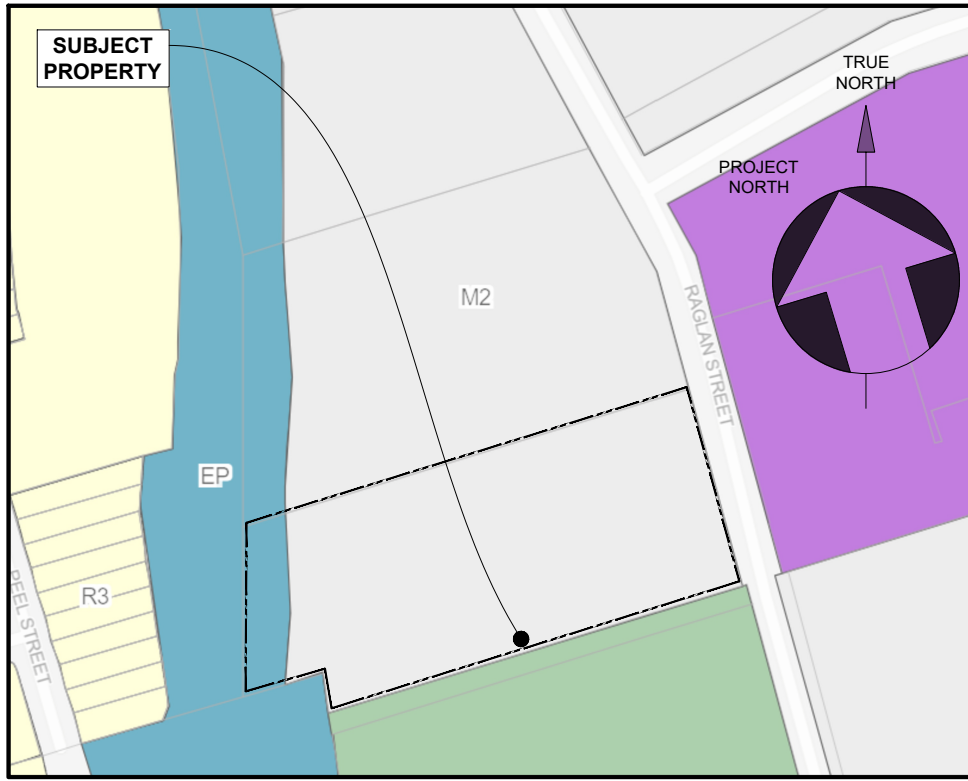
SHEET TITLE: FLOOR PLAN

DWG FILE:	...	JOB#	...
DRAWN BY:	R.M.M.		
CHECKED BY:	H.B.		
REVISION:	N/A		
DATE:	SEPT 6, 2025		
SCALE:	AS NOTED		

SHEET SIZE - 36" x 24" - DO NOT SCALE DRAWINGS



KEY PLAN
SCALE 1" = 300'



ZONING PLAN
SCALE 1" = 300'

GENERAL NOTES:

- ALL WORK ON THIS PROJECT SHALL CONFORM TO THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT.
- OWNER & GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.
- DRAWINGS ARE NOT TO BE SCALED.
- GENERAL REVIEW OF THE CONSTRUCTION MUST BE COMPLETED BY THE TOWNSHIP BUILDING OFFICIAL(S) OR A LICENSED PROFESSIONAL ENGINEER OR BOTH. ALL ENGINEERING REPORTS, IF REQUESTED BY THE TOWNSHIP, ARE TO BE FORWARDED TO THE BUILDING DEPARTMENT. INSPECTIONS MAY INCLUDE BUT ARE NOT LIMITED TO:
 - FOOTINGS AND WALLS (PRIOR TO POURING)
 - CONCRETE REINFORCING (PRIOR TO POURING)
 - STRUCTURAL STEEL

SOIL/SUBGRADE SPECIFICATIONS

- PREPARE THE AREA FOR THE PROPOSED STRUCTURE BY REMOVING ALL TOPSOIL & ORGANIC MATERIAL FROM THE AREA OF THE FOUNDATION.
- ENSURE MIN 24" OF FREE DRAINING COMPACTED GRANULARS UNDER CONCRETE SLABS TO PREVENT UNEQUAL FROST HEAVE.
- IF ANY "SOFT AREAS" OR SOIL THAT IS NOT NATIVE IS ENCOUNTERED DURING EXCAVATION IT IS TO BE SUB EXCAVATED, REMOVED, FILLED WITH GRANULAR AND COMPACTED.
- DO NOT ALLOW SOIL TO FREEZE AND FROST TO DEVELOP UNDER ANY FOOTINGS OR FLOATING SLABS.

3.2.2.79. Group F, Division 2, up to 4 Storeys, Sprinklered

- A building classified as Group F, Division 2 is permitted to conform to Sentence (2) provided
 - except as permitted by Sentences 3.2.2.7.(1) and 3.2.2.18.(2), the building is sprinklered throughout,
 - it has a building area not more than
 - 9 600 m² if 1 storey in building height,
 - 4 800 m² if 2 storeys in building height,
 - 3 200 m² if 3 storeys in building height, or
 - 2 400 m² if 4 storeys in building height.
- The building referred to in Sentence (1) is permitted to be of combustible construction or noncombustible construction used singly or in combination, and
 - floor assemblies shall be fire separations with a fire-resistance rating not less than 45 min,
 - mezzanines shall have, if of combustible construction, a fire-resistance rating not less than 45 min,
 - loadbearing walls, columns and arches supporting an assembly required to have a fire-resistance rating shall
 - have a fire-resistance rating not less than 45 min, or
 - be of noncombustible construction, and
 - loadbearing walls, columns and arches supporting a fire separation shall have a fire-resistance rating not less than that required for the supported assembly.

LEGEND	
DESCRIPTION	TAG
OVERHEAD DOOR	▽
EGRESS DOOR	▼
MAIN ENTRANCE	M_ENT
PARKING SPOT	P-#
VISITORS PARKING SPOT	VP-#
BARRIER FREE PARKING SPOT	♿
FIRE DEPARTMENT PUMPER VEHICLE	FDPV
LOADING SPACE	LS
LIGHT POLE	○ LP
STORM POND	SWMP
GRASS	• • • •

3.2.5.5. LOCATION OF ACCESS ROUTES (OBC 2024)

- Access routes for firefighting shall be located so that the principal entrance is located not less than 3 m (9'-10") and not more than 15 m (49'-3") from the closest portion of the access route required for fire department use, measured horizontally from the face of the building.
- Access routes shall be provided to a building so that
 - for a building provided with a fire department connection, a fire department pumper vehicle can be located adjacent to the hydrants referred to in Article 3.2.5.16, 2.b,
 - for a building not provided with a fire department connection, a fire department pumper vehicle can be located so that the length of the access route from a hydrant to the vehicle plus the unobstructed path of travel for the firefighter from the vehicle to the building is not more than 90 m (295'-3"), and
 - the unobstructed path of travel for the firefighter from the vehicle to the building is not more than 45 m (147'-8").
- The unobstructed path of travel for the firefighter required by Sentence (2) from the vehicle to the building shall be measured from the vehicle to the fire department connection provided for the building, except that if no fire department connection is provided, the path of travel shall be measured to the principal entrance of the building.
- If a portion of a building is completely cut off from the remainder of the building so that there is no access to the remainder of the building, the access routes required by Sentence (2) shall be located so that the unobstructed path of travel from the vehicle to one entrance of each portion of the building is not more than 45 m (147'-8").

3.2.5.6. ACCESS ROUTE DESIGN (OBC 2024)

- A portion of a roadway or yard provided as a required access route for fire department use shall
 - have a clear width not less than 6 m, unless it can be shown that lesser widths are satisfactory,
 - have a centreline radius not less than 12 m,
 - have an overhead clearance not less than 5 m,
 - have a change of gradient not more than 1 in 12.5 over a minimum distance of 15 m,
 - be designed to support the expected loads imposed by firefighting equipment and be surfaced with concrete, asphalt or other material designed to permit accessibility under all climatic conditions,
 - have turnaround facilities for any dead-end portion of the access route more than 90 m long, and
 - be connected with a public thoroughfare.



ENLARGED SITE PLAN
SCALE 1/32" = 1'-0"

PARCEL DESCRIPTION	
ARN	433103000305710
ADDRESS	430 RAGLAN STREET, COLLINGWOOD
MUNICIPALITY	Town of Collingwood
ZONING	M2

SECTION 8 - INDUSTRIAL ZONES (M2) (Collingwood Zoning By-law 2010-040) Consolidated: Sept. 4, 2025			
	DESCRIPTION	MINIMUM/MAXIMUM ZONING REQUIREMENTS	PROVIDED
8.1	PERMITTED USES	Warehouse	COMPLIES
8.3.1	Industrial Provisions - Minimum Lot Area (m2)	3,000	21,884 m
8.3.1	Industrial Provisions - Minimum Lot Frontage (m)	30	86.6 m
8.3.1	Industrial Provisions - Minimum Front Yard (m)	12	21.48 m
8.3.1	Industrial Provisions - Minimum Exterior Side Yard (m)	12	N/A
8.3.1	Industrial Provisions - Minimum Interior Side Yard (m)	6.0 (a)	NORTH 18.62 m SOUTH 19.13 m
8.3.1	Industrial Provisions - Minimum Rear Yard (m)	7.5 (a)	127.3 m
8.3.1	Industrial Provisions - Maximum Height (m)	15.0	13.3 m
8.3.1	Industrial Provisions - Maximum Lot Coverage	50%	18.55% (4,060 m ²)
8.3.1	Industrial Provisions - Minimum Landscaped Open Space	15%	18.38% (4,024 m ²)

ONTARIO BUILDING CODE DATA MATRIX PART 3 & 9		BUILDING CODE PART 3	BUILDING CODE PART 9
1	PROJECT TYPE ☒ NEW ☐ CHANGE OF USE DESCRIPTION:	☐ ADDITION ☐ RENOVATION ☐ ALTERATION	2.1.1 9.10.1.3
2	MAJOR OCCUPANCY CLASSIFICATION: OCCUPANCY: F2 - MEDIUM HAZARD INDUSTRIAL		3.1.2.1 (1) 9.10.2
3	BUILDING AREA (m ²) EXISTING: 4,060 m ² NEW: 4,060 m ²	EXISTING TO DEMOLISH: 4,060 m ²	1.1.3.2 1.1.3.2
4	GROSS AREA (m ²) EXISTING: 4,060 m ² NEW: 4,060 m ²	EXISTING TO DEMOLISH: 4,060 m ²	1.1.3.2 1.1.3.2
5	NUMBER OF STOREYS ABOVE GRADE: 2 BELOW GRADE:		3.2.1.1 & 1.1.3.2 2.1.1.3
6	BUILDING HEIGHT (m) 10.67 m		2.1.1.3
7	NUMBER OF STREETS FIREFIGHTER ACCESS 1 STREET(S)		3.2.2.10 & 3.2.5.5
8	BUILDING CLASSIFICATION 3.2.2.79. GROUP F, DIVISION 2, UP TO 4 STOREYS, SPRINKLERED		3.2.2.20-83 9.10.4
9	SPRINKLER SYSTEM ☒ REQUIRED PROPOSED: ☐ NONE BUILDING ☐ SELECTED FLOOR AREAS ☐ IN USE OF ROOF RATING ☐ NONE		3.2.2.20-83 3.2.1.9 3.2.2.17 3.2.9
10	STANDPIPE REQUIRED ☐ YES ☒ NO		3.2.9
11	FIRE ALARM SYSTEM ☒ REQUIRED PROPOSED: ☐ SINGLE STAGE ☐ TWO STAGE ☐ NONE		3.2.4 9.10.7.2
12	WATER SERVICE SUPPLY IS ADEQUATE ☒ YES ☐ NO		
13	IMPORTANCE CATEGORY: ☐ LOW ☒ NORMAL ☐ HIGH ☐ POST DISASTER ☐ EXPLOSIVE OR HAZARDOUS SUBSTANCES	☐ LOW HUMAN OCCUPANCY ☐ POST DISASTER BUILDING ☐ EXPLOSIVE OR HAZARDOUS SUBSTANCES	3.2.6 4.1.2.1 (3) & 74.1.2.1.6
14	CONSTRUCTION TYPE: RESTRICTION: ☐ COMBUSTIBLE PERMITTED ACTUAL: ☐ COMBUSTIBLE ☒ NON-COMBUSTIBLE	☒ NON-COMBUSTIBLE ☐ COMBINATION	3.2.2.20-83 9.10.6
15	MEZZANINE AREA (m ²) EXISTING: 1588.6 NEW: 1588.6	EXISTING TO DEMOLISH: 1588.6	3.2.1.1 (2) & (4) 9.10.4.1
16	OCCUPANT LOAD BASED ON: ☐ H/PERSON POSTED MAXIMUM OCCUPANT LOAD: 7 (SEVEN)	DESIGN OF BUILDING	3.1.1.6 9.9.1.3
17	BARRIER-FREE DESIGN ☒ YES ☐ NO	EXPLANATION:	3.8 9.9.2
18	HAZARDOUS SUBSTANCES ☐ YES ☒ NO	EXPLANATION:	3.3.1.2 (1) & 3.3.1.1 (1) 9.10.1.3
19	REQUIRED FIRE RESISTANCE RATINGS FLOORS: 45 MIN MEZZANINE: 45 MIN ROOF: N/A	☒ YES ☐ NO ☐ N/A	3.2.2.20-83 & 3.2.1.4 9.10.8 9.10.9
20	SPATIAL SEPARATION WALL NORTH: 748 18.9 10.7 100 <100 NO SOUTH: 748 18.9 10.7 100 <100 NO EAST: 618 63.5 10.7 100 <100 NO WEST: 618 90 10.7 100 <100 NO	☒ NON-COMBUSTIBLE ☐ NON-COMBUSTIBLE ☐ NON-COMBUSTIBLE ☐ NON-COMBUSTIBLE	3.2.3 9.10.14
21	PLUMBING FIXTURE REQUIREMENTS NUMBER OF MEN: 6 MINIMUM AMOUNT OF WATER CLOSETS FOR MEN: 1 MINIMUM AMOUNT OF WATER CLOSETS FOR WOMEN: 1 TOTAL AMOUNT OF WATER CLOSETS PROVIDED: 1		9.3.1 & 3.7.4
22	ENERGY EFFICIENCY COMPLIANCE PATH: TO BE DETERMINED		12.2.1

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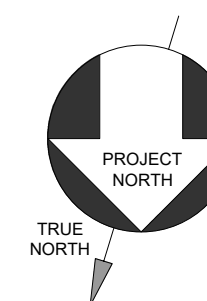


TIN SHACK LTD.
31 STEWART AVE.
COLLINGWOOD, ON. L9Y 0C5
PROJECT NAME / LOCATION:
190'x230' WAREHOUSE
410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

SHEET TITLE: FLOOR PLAN

DWG FILE:	...
DRAWN BY:	R.M.M.
CHECKED BY:	H.B.
REVISION:	N/A
DATE:	SEPT 6, 2025
SCALE:	AS NOTED

A1



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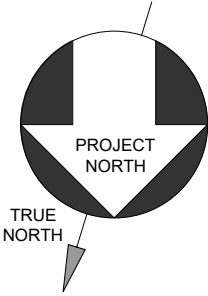
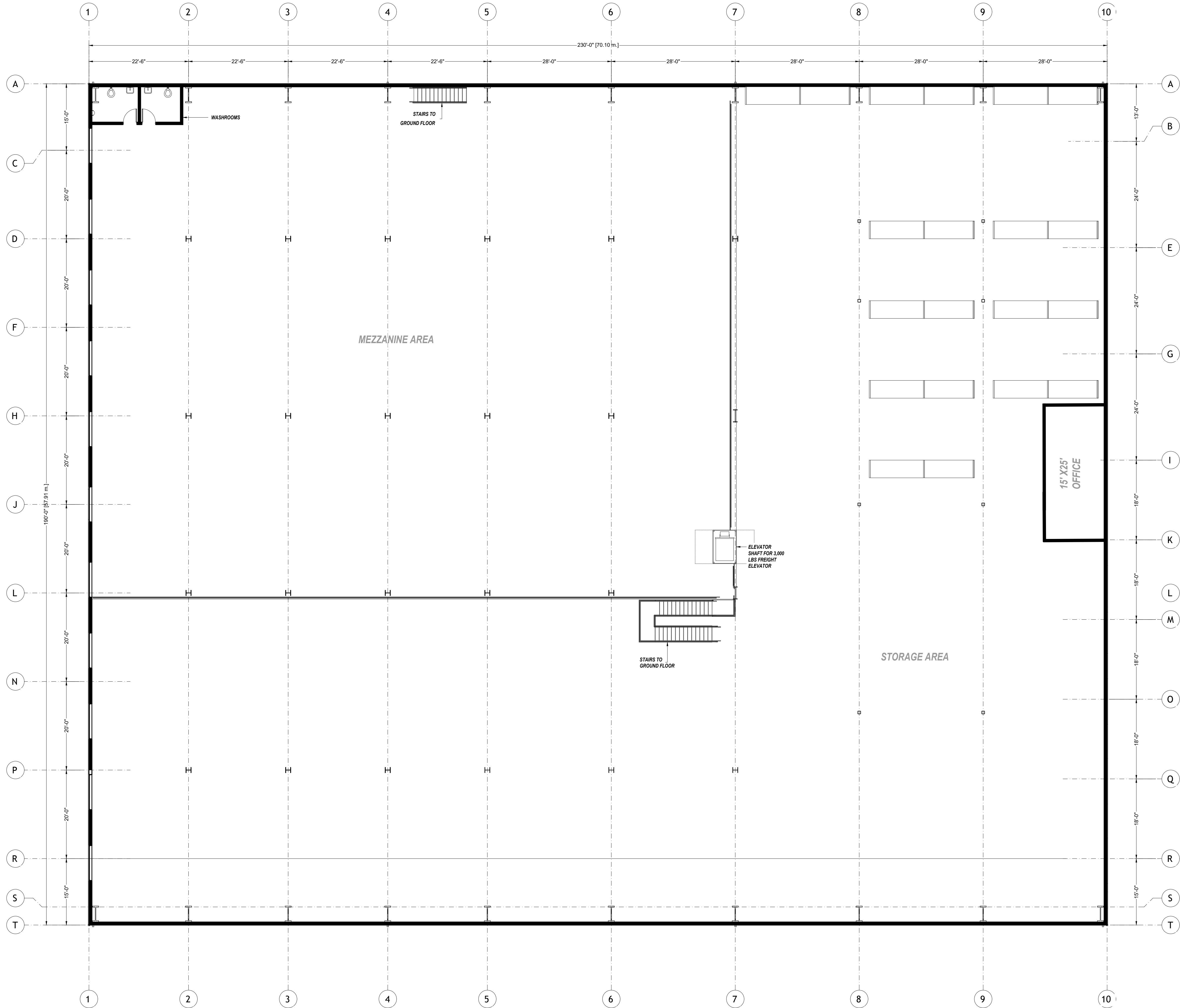
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PROJECT NAME / LOCATION:
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410 RAGLAN ST.
COLLINGWOOD, ON, L9Y 5P

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	DATE:	SEPT. 6, 2025			
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MEZZANINE PLAN
SCALE 3/32" = 1'-0"

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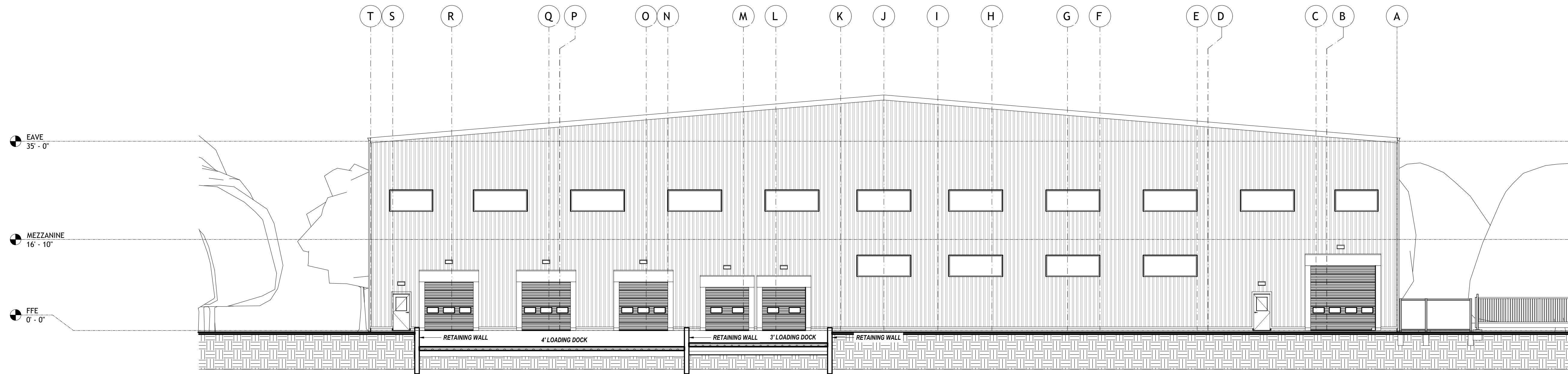
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31 STEWART ROAD
COLLINGWOOD, ON. L9Y 0C5

PROJECT NAME / LOCATION:
190'x230' WAREHOUSE
410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

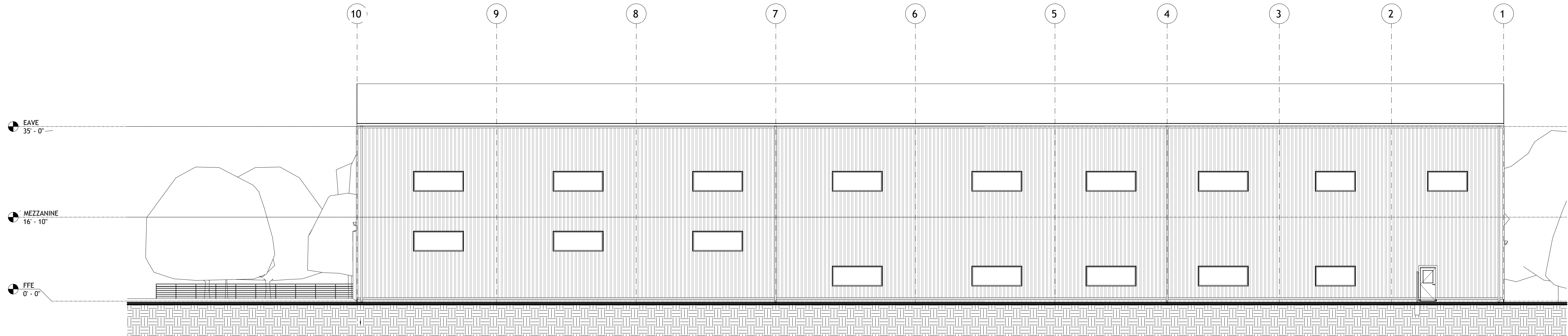
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DRAWN BY:	R.M.M.	CHECKED BY:	H.B.
REVISION:	N/A	DATE:	SEPT 6, 2025
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ELEVATION #1
SCALE 3/32" = 1'-0"



ELEVATION #2
SCALE 3/32" = 1'-0"

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PROJECT NAME / LOCATION:
190'x230' WAREHOUSE
410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

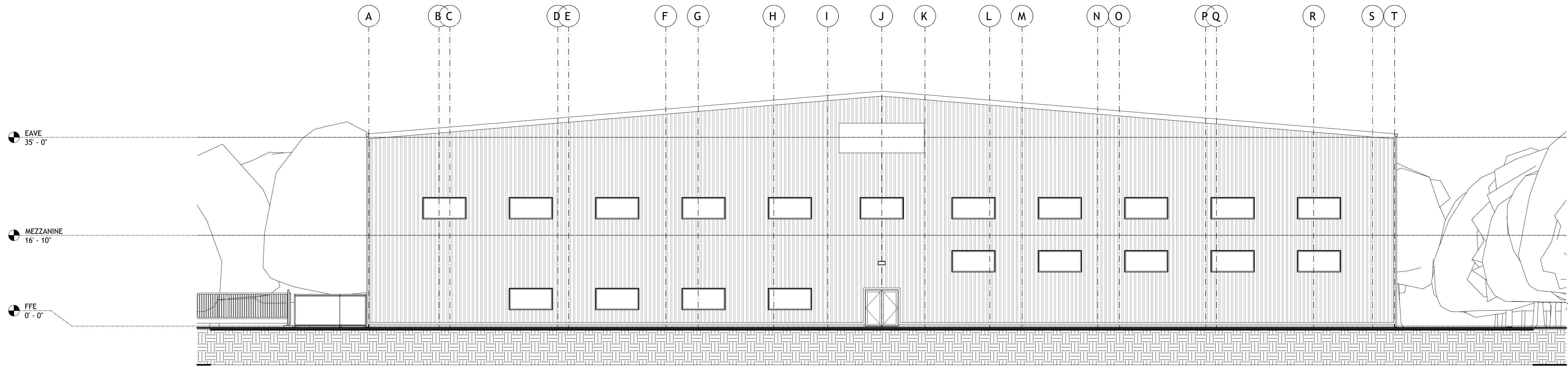
SHEET TITLE:
ELEVATIONS #1

DWG FILE: ...
DRAWN BY: R.M.M.
CHECKED BY: H.B.
REVISION: N/A
DATE: SEPT 6, 2025
SCALE: AS NOTED

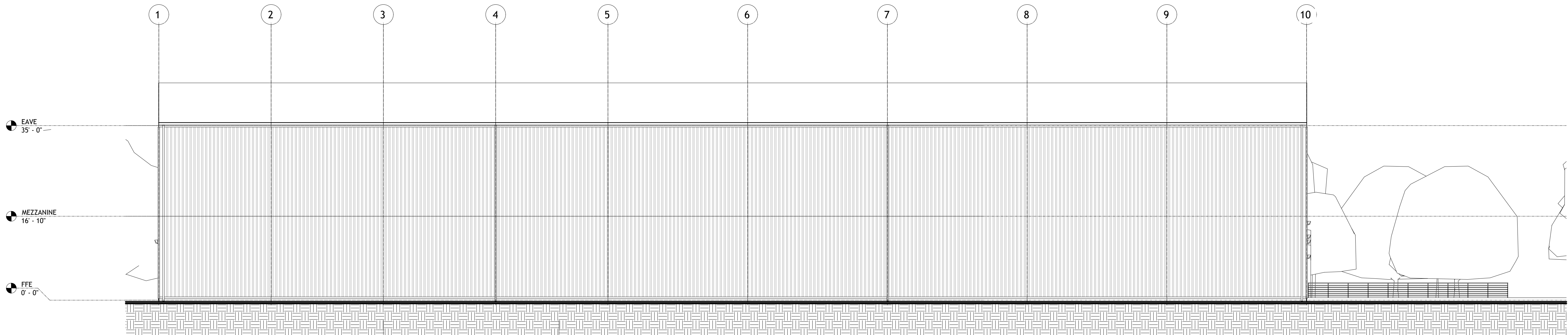
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ELEVATION #3
SCALE 3/32" = 1'-0"



ELEVATION #4
SCALE 3/32" = 1'-0"

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COLLINGWOOD, ON. L9Y 0C5

PROJECT NAME / LOCATION:
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410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

SHEET TITLE:
ELEVATIONS #2

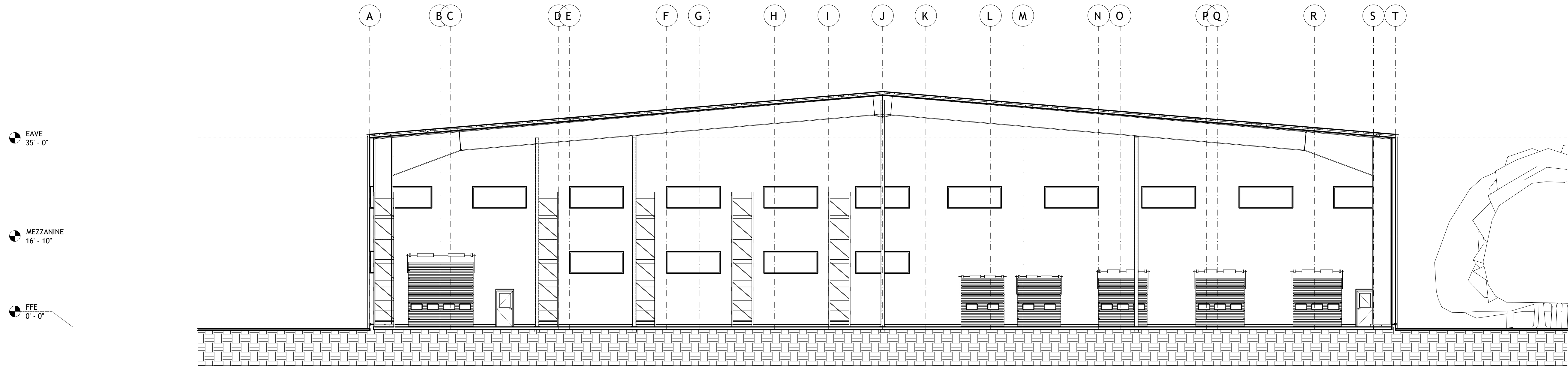
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DRAWN BY:	R.M.M.	JOB#	...
CHECKED BY:	H.B.		
REVISION:	NA		
DATE:	SEPT 6, 2025		
SCALE:	AS NOTED		

A4

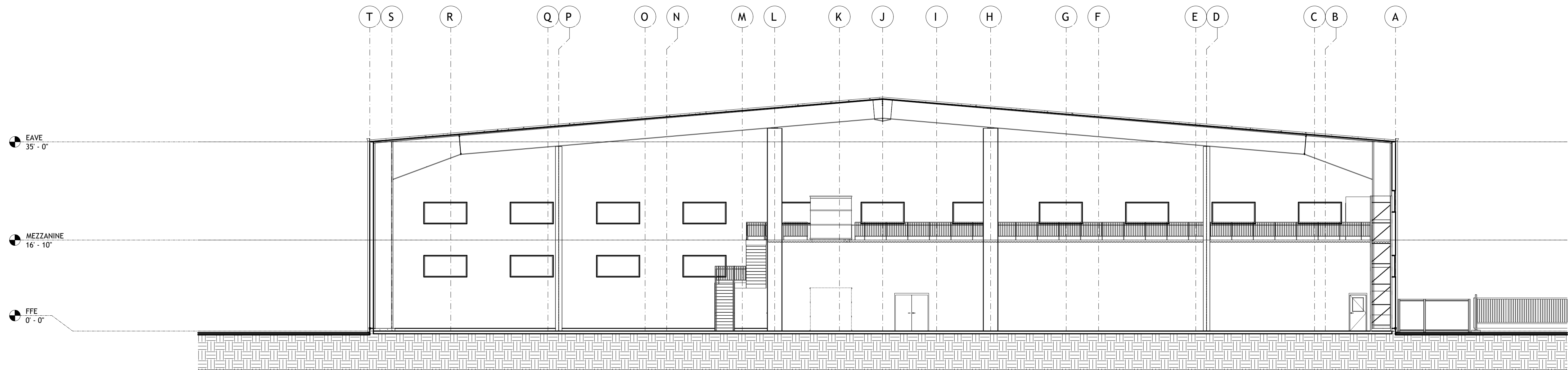
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Drawings For
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SECTION THROUGH BUILDING
SCALE 3/32" = 1'-0"



SECTION THROUGH BUILDING
SCALE 3/32" = 1'-0"

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PROJECT NAME / LOCATION:
190'x230' WAREHOUSE
410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

SHEET TITLE:
SECTION

DWG FILE:	...
DRAWN BY:	R.M.M.
CHECKED BY:	H.B.
REVISION:	N/A
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SCALE:	AS NOTED

A5

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RENDER #1
SCALE N.T.S.



RENDER #2
SCALE N.T.S.



RENDER #5
SCALE N.T.S.

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PROJECT NAME / LOCATION:
190'x230' WAREHOUSE
410 RAGLAN ST.
COLLINGWOOD, ON. L9Y 5P9

SHEET TITLE:
RENDERS

DWG FILE:	...	JOB#	...
DRAWN BY:	R.M.M.		
CHECKED BY:	H.B.		
REVISION:	N/A		
DATE:	SEPT 6, 2025		
SCALE:	AS NOTED		

A6

SHEET SIZE - 36" x 24" - DO NOT SCALE DRAWINGS

Appendix B: CadnaA Calculation Detail

CadnaA Parameters

Point Sources

Name	Sel.	M.	ID	Result. PWL			Lw / Li			Correction			Reduction		Operating Time			K0	Freq.	Direct.	Height		Coordinates		
				Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (m²)	Day (min)	Special (min)	Night (min)	(dB)	(Hz)		(m)		X (m)	Y (m)	Z (m)
Coupling1			I03ITI	116	116	116	Lw	Coupling		0	0	0	0		0.15	0.15	0	0	(none)	2.5	r	17563954	4926461	196.87	
Coupling2			I03ITI	116	116	116	Lw	Coupling		0	0	0	0		0.15	0.15	0	0	(none)	2.5	r	17563956	4926456	196.89	
Coupling3			I03ITI	116	116	116	Lw	Coupling		0	0	0	0		0.15	0.15	0	0	(none)	2.5	r	17563958	4926451	196.90	
Coupling4			I03ITI	116	116	116	Lw	Coupling		0	0	0	0		0.15	0.15	0	0	(none)	2.5	r	17563960	4926445	196.92	
Coupling5			I03ITI	116	116	116	Lw	Coupling		0	0	0	0		0.15	0.15	0	0	(none)	2.5	r	17563961	4926438	196.94	
Loading1			I03ITI	108	108	108	Lw	Loading		0	0	0	0		4	4	0	0	(none)	2.5	r	17563967	4926465	196.93	
Loading2			I03ITI	108	108	108	Lw	Loading		0	0	0	0		4	4	5	0	(none)	2.5	r	17563969	4926460	196.94	
Loading3			I03ITI	108	108	108	Lw	Loading		0	0	0	0		4	4	0	0	(none)	2.5	r	17563970	4926454	196.95	
Loading4			I03ITI	108	108	108	Lw	Loading		0	0	0	0		4	4	0	0	(none)	2.5	r	17563972	4926449	196.97	
Loading4			I03ITI	108	108	108	Lw	Loading		0	0	0	0		4	4	0	0	(none)	2.5	r	17563977	4926435	197.02	
Loading4			I03ITI	116	116	116	Lw	Coupling		0	0	0	0		0.17	0.17	0	0	(none)	2.5	r	17563965	4926430	196.97	
Loading5			I03ITI	108	108	108	Lw	Loading		0	0	0	0		4	4	0	0	(none)	2.5	r	17563974	4926441	197.00	
Truck Idle Bay1			I02ITI	100.9	100.9	100.9	Lw	HeavyTruck_idle		0	0	0	0		5	5	5	0	(none)	2.5	r	17563950	4926460	196.85	
Truck Idle Bay2			I02ITI	100.9	100.9	100.9	Lw	HeavyTruck_idle		0	0	0	0		5	5	5	0	(none)	2.5	r	17563951	4926455	196.86	
Truck Idle Bay3			I02ITI	100.9	100.9	100.9	Lw	HeavyTruck_idle		0	0	0	0		5	5	5	0	(none)	2.5	r	17563953	4926450	196.88	
Truck Idle Bay4			I02ITI	100.9	100.9	100.9	Lw	HeavyTruck_idle		0	0	0	0		5	5	5	0	(none)	2.5	r	17563955	4926444	196.90	
Truck Idle Bay6			I02ITI	100.9	100.9	100.9	Lw	HeavyTruck_idle		0	0	0	0		5	5	5	0	(none)	2.5	r	17563957	4926436	196.93	

Line Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL'						Correction					Operating Time			K0	Freq.	Direct.	Moving Pt. Src			
				Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Evening	Night	R	Area	Day	Evening	Night				Number		Speed	
				(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)					(m²)	(min)	(min)	(min)	(dB)	(Hz)		Day	Evening	Night	(km/h)
TruckRoute			I02ITR	102.4	102.4	102.4	76.6	76.6	76.6	PWL-Pt	Heavy_10kph		0	0	0							0	(none)	12	12	12	10
TruckRoute			I02ITR	92.8	92.8	92.8	76.6	76.6	76.6	PWL-Pt	Heavy_10kph		0	0	0							0	(none)	12	12	12	10

Receivers

Steady State Noise

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)
R1-OLA			!01!R1OLA	45.3	45.3	45.3	50	50	0				1.5	r	17563796	4926506	195.05
R1-POW			!01!R1POW	45	45	45	50	50	45				4.5	r	17563764	4926519	197.87
R2-OLA			!01!R2OLA	46.1	46.1	46.1	50	50	0				1.5	r	17563792	4926411	195.18
R2-POW			!01!R2POW	46.9	46.9	46.9	50	50	45				4.5	r	17563777	4926407	198.12
R3-OLA			!01!R3OLA	45.7	45.7	45.7	50	50	0				1.5	r	17563797	4926374	195.27
R3-POW			!01!R3POW	46.6	46.6	46.6	50	50	45				4.5	r	17563785	4926368	198.21
R4-OLA			!01!R4OLA	42.7	42.7	42.7	50	50	0				1.5	r	17563780	4926298	195.31
R4-POW			!01!R4POW	43.3	43.3	43.3	50	50	50				4.5	r	17563766	4926279	198.27

Impulsive Noise

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)
R1-OLA			!01!R1OLA	48.8	48.8	41	50	50	0				1.5	r	17563796	4926506	195.05
R1-POW			!01!R1POW	47.8	47.8	39.9	50	50	45				4.5	r	17563764	4926519	197.87
R2-OLA			!01!R2OLA	49.4	49.4	41.6	50	50	0				1.5	r	17563792	4926411	195.18
R2-POW			!01!R2POW	49.3	49.3	41.5	50	50	45				4.5	r	17563777	4926407	198.12
R3-OLA			!01!R3OLA	49.1	49.1	41.2	50	50	0				1.5	r	17563797	4926374	195.27
R3-POW			!01!R3POW	49	49	41.1	50	50	45				4.5	r	17563785	4926368	198.21
R4-OLA			!01!R4OLA	46.4	46.4	38.5	50	50	0				1.5	r	17563780	4926298	195.31
R4-POW			!01!R4POW	46.2	46.2	38.3	50	50	50				4.5	r	17563766	4926279	198.27

Receiver
Name: R1-POW
ID: !01!R1POW
X: 17563763.86 m
Y: 4926518.79 m
Z: 197.87 m

Point Source, ISO 9613, Name: "Loading2", ID: "!03!TI"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
5	17563968.61	4926459.74	196.94	0	D	32	-39.4	0.0	-11.8	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-105.7
5	17563968.61	4926459.74	196.94	0	D	63	-26.2	0.0	-11.8	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-92.5
5	17563968.61	4926459.74	196.94	0	D	125	-16.1	0.0	-11.8	0.0	0.0	57.6	0.1	2.4	0.0	0.0	0.0	0.0	0.0	-87.9
5	17563968.61	4926459.74	196.94	0	D	250	-8.6	0.0	-11.8	0.0	0.0	57.6	0.2	1.6	0.0	0.0	0.0	0.0	0.0	-79.7
5	17563968.61	4926459.74	196.94	0	D	500	-3.2	0.0	-11.8	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	-72.1
5	17563968.61	4926459.74	196.94	0	D	1000	108.0	0.0	-11.8	0.0	0.0	57.6	0.8	-1.1	0.0	0.0	0.0	0.0	0.0	39.0
5	17563968.61	4926459.74	196.94	0	D	2000	1.2	0.0	-11.8	0.0	0.0	57.6	2.1	-1.1	0.0	0.0	0.0	0.0	0.0	-69.1
5	17563968.61	4926459.74	196.94	0	D	4000	1.0	0.0	-11.8	0.0	0.0	57.6	7.0	-1.1	0.0	0.0	0.0	0.0	0.0	-74.2
5	17563968.61	4926459.74	196.94	0	D	8000	-1.1	0.0	-11.8	0.0	0.0	57.6	24.9	-1.1	0.0	0.0	0.0	0.0	0.0	-94.2
5	17563968.61	4926459.74	196.94	0	N	32	-39.4	0.0	-10.8	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-104.7
5	17563968.61	4926459.74	196.94	0	N	63	-26.2	0.0	-10.8	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-91.5
5	17563968.61	4926459.74	196.94	0	N	125	-16.1	0.0	-10.8	0.0	0.0	57.6	0.1	2.4	0.0	0.0	0.0	0.0	0.0	-86.9
5	17563968.61	4926459.74	196.94	0	N	250	-8.6	0.0	-10.8	0.0	0.0	57.6	0.2	1.6	0.0	0.0	0.0	0.0	0.0	-78.8
5	17563968.61	4926459.74	196.94	0	N	500	-3.2	0.0	-10.8	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	-71.1
5	17563968.61	4926459.74	196.94	0	N	1000	108.0	0.0	-10.8	0.0	0.0	57.6	0.8	-1.1	0.0	0.0	0.0	0.0	0.0	39.9
5	17563968.61	4926459.74	196.94	0	N	2000	1.2	0.0	-10.8	0.0	0.0	57.6	2.1	-1.1	0.0	0.0	0.0	0.0	0.0	-68.1
5	17563968.61	4926459.74	196.94	0	N	4000	1.0	0.0	-10.8	0.0	0.0	57.6	7.0	-1.1	0.0	0.0	0.0	0.0	0.0	-73.3
5	17563968.61	4926459.74	196.94	0	N	8000	-1.1	0.0	-10.8	0.0	0.0	57.6	24.9	-1.1	0.0	0.0	0.0	0.0	0.0	-93.3
5	17563968.61	4926459.74	196.94	0	E	32	-39.4	0.0	-11.8	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-105.7
5	17563968.61	4926459.74	196.94	0	E	63	-26.2	0.0	-11.8	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-92.5
5	17563968.61	4926459.74	196.94	0	E	125	-16.1	0.0	-11.8	0.0	0.0	57.6	0.1	2.4	0.0	0.0	0.0	0.0	0.0	-87.9
5	17563968.61	4926459.74	196.94	0	E	250	-8.6	0.0	-11.8	0.0	0.0	57.6	0.2	1.6	0.0	0.0	0.0	0.0	0.0	-79.7
5	17563968.61	4926459.74	196.94	0	E	500	-3.2	0.0	-11.8	0.0	0.0	57.6	0.4	-0.9	0.0	0.0	0.0	0.0	0.0	-72.1
5	17563968.61	4926459.74	196.94	0	E	1000	108.0	0.0	-11.8	0.0	0.0	57.6	0.8	-1.1	0.0	0.0	0.0	0.0	0.0	39.0
5	17563968.61	4926459.74	196.94	0	E	2000	1.2	0.0	-11.8	0.0	0.0	57.6	2.1	-1.1	0.0	0.0	0.0	0.0	0.0	-69.1
5	17563968.61	4926459.74	196.94	0	E	4000	1.0	0.0	-11.8	0.0	0.0	57.6	7.0	-1.1	0.0	0.0	0.0	0.0	0.0	-74.2
5	17563968.61	4926459.74	196.94	0	E	8000	-1.1	0.0	-11.8	0.0	0.0	57.6	24.9	-1.1	0.0	0.0	0.0	0.0	0.0	-94.2

Point Source, ISO 9613, Name: "Loading1", ID: "!03!TI"

Nr.	X (m)	Y (m)	Z (m)	Refl.	DEN	Freq. (Hz)	Lw dB(A)	l/a dB	Optime dB	K0 (dB)	Di (dB)	Adiv (dB)	Aatm (dB)	Agr (dB)	Afol (dB)	Ahous (dB)	Abar (dB)	Cmet (dB)	RL (dB)	Lr dB(A)
7	17563966.91	4926465.35	196.93	0	D	32	-39.4	0.0	-11.8	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-105.6
7	17563966.91	4926465.35	196.93	0	D	63	-26.2	0.0	-11.8	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-92.4
7	17563966.91	4926465.35	196.93	0	D	125	-16.1	0.0	-11.8	0.0	0.0	57.4	0.1	2.7	0.0	0.0	0.0	0.0	0.0	-88.1
7	17563966.91	4926465.35	196.93	0	D	250	-8.6	0.0	-11.8	0.0	0.0	57.4	0.2	2.3	0.0	0.0	0.0	0.0	0.0	-80.3
7	17563966.91	4926465.35	196.93	0	D	500	-3.2	0.0	-11.8	0.0	0.0	57.4	0.4	-0.6	0.0	0.0	0.0	0.0	0.0	-72.2
7	17563966.91	4926465.35	196.93	0	D	1000	108.0	0.0	-11.8	0.0	0.0	57.4	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	38.9
7	17563966.91	4926465.35	196.93	0	D	2000	1.2	0.0	-11.8	0.0	0.0	57.4	2.0	-0.9	0.0	0.0	0.0	0.0	0.0	-69.1
7	17563966.91	4926465.35	196.93	0	D	4000	1.0	0.0	-11.8	0.0	0.0	57.4	6.9	-0.9	0.0	0.0	0.0	0.0	0.0	-74.2
7	17563966.91	4926465.35	196.93	0	D	8000	-1.1	0.0	-11.8	0.0	0.0	57.4	24.5	-0.9	0.0	0.0	0.0	0.0	0.0	-93.9
7	17563966.91	4926465.35	196.93	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-281.9
7	17563966.91	4926465.35	196.93	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-268.7
7	17563966.91	4926465.35	196.93	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.4	0.1	2.7	0.0	0.0	0.0	0.0	0.0	-264.4
7	17563966.91	4926465.35	196.93	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.4	0.2	2.3	0.0	0.0	0.0	0.0	0.0	-256.6
7	17563966.91	4926465.35	196.93	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.4	0.4	-0.6	0.0	0.0	0.0	0.0	0.0	-248.4
7	17563966.91	4926465.35	196.93	0	N	1000	108.0	0.0	-188.0	0.0	0.0	57.4	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	-137.3
7	17563966.91	4926465.35	196.93	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.4	2.0	-0.9	0.0	0.0	0.0	0.0	0.0	-245.3
7	17563966.91	4926465.35	196.93	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.4	6.9	-0.9	0.0	0.0	0.0	0.0	0.0	-250.4
7	17563966.91	4926465.35	196.93	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.4	24.5	-0.9	0.0	0.0	0.0	0.0	0.0	-270.2
7	17563966.91	4926465.35	196.93	0	E	32	-39.4	0.0	-11.8	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-105.6
7	17563966.91	4926465.35	196.93	0	E	63	-26.2	0.0	-11.8	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-92.4
7	17563966.91	4926465.35	196.93	0	E	125	-16.1	0.0	-11.8	0.0	0.0	57.4	0.1	2.7	0.0	0.0	0.0	0.0	0.0	-88.1

Point Source, ISO 9613, Name: "Loading1", ID: "I03!T1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
7	17563966.91	4926465.35	196.93	0	E	250	-8.6	0.0	-11.8	0.0	0.0	57.4	0.2	2.3	0.0	0.0	0.0	0.0	0.0	-80.3
7	17563966.91	4926465.35	196.93	0	E	500	-3.2	0.0	-11.8	0.0	0.0	57.4	0.4	-0.6	0.0	0.0	0.0	0.0	0.0	-72.2
7	17563966.91	4926465.35	196.93	0	E	1000	108.0	0.0	-11.8	0.0	0.0	57.4	0.8	-0.9	0.0	0.0	0.0	0.0	0.0	38.9
7	17563966.91	4926465.35	196.93	0	E	2000	1.2	0.0	-11.8	0.0	0.0	57.4	2.0	-0.9	0.0	0.0	0.0	0.0	0.0	-69.1
7	17563966.91	4926465.35	196.93	0	E	4000	1.0	0.0	-11.8	0.0	0.0	57.4	6.9	-0.9	0.0	0.0	0.0	0.0	0.0	-74.2
7	17563966.91	4926465.35	196.93	0	E	8000	-1.1	0.0	-11.8	0.0	0.0	57.4	24.5	-0.9	0.0	0.0	0.0	0.0	0.0	-93.9

Point Source, ISO 9613, Name: "Loading3", ID: "I03!T1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
12	17563970.04	4926454.37	196.95	0	D	32	-39.4	0.0	-11.8	0.0	0.0	57.7	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-105.8
12	17563970.04	4926454.37	196.95	0	D	63	-26.2	0.0	-11.8	0.0	0.0	57.7	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-92.6
12	17563970.04	4926454.37	196.95	0	D	125	-16.1	0.0	-11.8	0.0	0.0	57.7	0.1	2.0	0.0	0.0	0.0	0.0	0.0	-87.7
12	17563970.04	4926454.37	196.95	0	D	250	-8.6	0.0	-11.8	0.0	0.0	57.7	0.2	1.0	0.0	0.0	0.0	0.0	0.0	-79.2
12	17563970.04	4926454.37	196.95	0	D	500	-3.2	0.0	-11.8	0.0	0.0	57.7	0.4	-1.1	0.0	0.0	0.0	0.0	0.0	-72.0
12	17563970.04	4926454.37	196.95	0	D	1000	108.0	0.0	-11.8	0.0	0.0	57.7	0.8	-1.2	0.0	0.0	0.0	0.0	0.0	39.0
12	17563970.04	4926454.37	196.95	0	D	2000	1.2	0.0	-11.8	0.0	0.0	57.7	2.1	-1.2	0.0	0.0	0.0	0.0	0.0	-69.1
12	17563970.04	4926454.37	196.95	0	D	4000	1.0	0.0	-11.8	0.0	0.0	57.7	7.1	-1.2	0.0	0.0	0.0	0.0	0.0	-74.3
12	17563970.04	4926454.37	196.95	0	D	8000	-1.1	0.0	-11.8	0.0	0.0	57.7	25.2	-1.2	0.0	0.0	0.0	0.0	0.0	-94.6
12	17563970.04	4926454.37	196.95	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.7	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-282.0
12	17563970.04	4926454.37	196.95	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.7	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-268.8
12	17563970.04	4926454.37	196.95	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.7	0.1	2.0	0.0	0.0	0.0	0.0	0.0	-263.9
12	17563970.04	4926454.37	196.95	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.7	0.2	1.0	0.0	0.0	0.0	0.0	0.0	-255.5
12	17563970.04	4926454.37	196.95	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.7	0.4	-1.1	0.0	0.0	0.0	0.0	0.0	-248.2
12	17563970.04	4926454.37	196.95	0	N	1000	108.0	0.0	-188.0	0.0	0.0	57.7	0.8	-1.2	0.0	0.0	0.0	0.0	0.0	-137.2
12	17563970.04	4926454.37	196.95	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.7	2.1	-1.2	0.0	0.0	0.0	0.0	0.0	-245.3
12	17563970.04	4926454.37	196.95	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.7	7.1	-1.2	0.0	0.0	0.0	0.0	0.0	-250.5
12	17563970.04	4926454.37	196.95	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.7	25.2	-1.2	0.0	0.0	0.0	0.0	0.0	-270.8
12	17563970.04	4926454.37	196.95	0	E	32	-39.4	0.0	-11.8	0.0	0.0	57.7	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-105.8
12	17563970.04	4926454.37	196.95	0	E	63	-26.2	0.0	-11.8	0.0	0.0	57.7	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-92.6
12	17563970.04	4926454.37	196.95	0	E	125	-16.1	0.0	-11.8	0.0	0.0	57.7	0.1	2.0	0.0	0.0	0.0	0.0	0.0	-87.7
12	17563970.04	4926454.37	196.95	0	E	250	-8.6	0.0	-11.8	0.0	0.0	57.7	0.2	1.0	0.0	0.0	0.0	0.0	0.0	-79.2
12	17563970.04	4926454.37	196.95	0	E	500	-3.2	0.0	-11.8	0.0	0.0	57.7	0.4	-1.1	0.0	0.0	0.0	0.0	0.0	-72.0
12	17563970.04	4926454.37	196.95	0	E	1000	108.0	0.0	-11.8	0.0	0.0	57.7	0.8	-1.2	0.0	0.0	0.0	0.0	0.0	39.0
12	17563970.04	4926454.37	196.95	0	E	2000	1.2	0.0	-11.8	0.0	0.0	57.7	2.1	-1.2	0.0	0.0	0.0	0.0	0.0	-69.1
12	17563970.04	4926454.37	196.95	0	E	4000	1.0	0.0	-11.8	0.0	0.0	57.7	7.1	-1.2	0.0	0.0	0.0	0.0	0.0	-74.3
12	17563970.04	4926454.37	196.95	0	E	8000	-1.1	0.0	-11.8	0.0	0.0	57.7	25.2	-1.2	0.0	0.0	0.0	0.0	0.0	-94.6

Point Source, ISO 9613, Name: "Loading4", ID: "I03!T1"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
14	17563971.93	4926448.85	196.97	0	D	32	-39.4	0.0	-11.8	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-105.9
14	17563971.93	4926448.85	196.97	0	D	63	-26.2	0.0	-11.8	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-92.7
14	17563971.93	4926448.85	196.97	0	D	125	-16.1	0.0	-11.8	0.0	0.0	57.8	0.1	1.7	0.0	0.0	0.0	0.0	0.0	-87.5
14	17563971.93	4926448.85	196.97	0	D	250	-8.6	0.0	-11.8	0.0	0.0	57.8	0.2	0.3	0.0	0.0	0.0	0.0	0.0	-78.7
14	17563971.93	4926448.85	196.97	0	D	500	-3.2	0.0	-11.8	0.0	0.0	57.8	0.4	-1.3	0.0	0.0	0.0	0.0	0.0	-71.9
14	17563971.93	4926448.85	196.97	0	D	1000	108.0	0.0	-11.8	0.0	0.0	57.8	0.8	-1.4	0.0	0.0	0.0	0.0	0.0	39.0
14	17563971.93	4926448.85	196.97	0	D	2000	1.2	0.0	-11.8	0.0	0.0	57.8	2.1	-1.4	0.0	0.0	0.0	0.0	0.0	-69.1
14	17563971.93	4926448.85	196.97	0	D	4000	1.0	0.0	-11.8	0.0	0.0	57.8	7.2	-1.4	0.0	0.0	0.0	0.0	0.0	-74.4
14	17563971.93	4926448.85	196.97	0	D	8000	-1.1	0.0	-11.8	0.0	0.0	57.8	25.7	-1.4	0.0	0.0	0.0	0.0	0.0	-95.0
14	17563971.93	4926448.85	196.97	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-282.1
14	17563971.93	4926448.85	196.97	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-268.9
14	17563971.93	4926448.85	196.97	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.8	0.1	1.7	0.0	0.0	0.0	0.0	0.0	-263.7
14	17563971.93	4926448.85	196.97	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.8	0.2	0.3	0.0	0.0	0.0	0.0	0.0	-255.0
14	17563971.93	4926448.85	196.97	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.8	0.4	-1.3	0.0	0.0	0.0	0.0	0.0	-248.1
14	17563971.93	4926448.85	196.97	0	N	1000	108.0	0.0	-188.0	0.0	0.0	57.8	0.8	-1.4	0.0	0.0	0.0	0.0	0.0	-137.2
14	17563971.93	4926448.85	196.97	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.8	2.1	-1.4	0.0	0.0	0.0	0.0	0.0	-245.4
14	17563971.93	4926448.85	196.97	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.8	7.2	-1.4	0.0	0.0	0.0	0.0	0.0	-250.6
14	17563971.93	4926448.85	196.97	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.8	25.7	-1.4	0.0	0.0	0.0	0.0	0.0	-271.2
14	17563971.93	4926448.85	196.97	0	E	32	-39.4	0.0	-11.8	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-105.9
14	17563971.93	4926448.85	196.97	0	E	63	-26.2	0.0	-11.8	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-92.7
14	17563971.93	4926448.85	196.97	0	E	125	-16.1	0.0	-11.8	0.0	0.0	57.8	0.1	1.7	0.0	0.0	0.0	0.0	0.0	-87.5
14	17563971.93	4926448.85	196.97	0	E	250	-8.6	0.0	-11.8	0.0	0.0	57.8	0.2	0.3	0.0	0.0	0.0	0.0	0.0	-78.7

Point Source, ISO 9613, Name: "Loading4", ID: "I03!T!"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
14	17563971.93	4926448.85	196.97	0	E	500	-3.2	0.0	-11.8	0.0	0.0	57.8	0.4	-1.3	0.0	0.0	0.0	0.0	0.0	-71.9
14	17563971.93	4926448.85	196.97	0	E	1000	108.0	0.0	-11.8	0.0	0.0	57.8	0.8	-1.4	0.0	0.0	0.0	0.0	0.0	39.0
14	17563971.93	4926448.85	196.97	0	E	2000	1.2	0.0	-11.8	0.0	0.0	57.8	2.1	-1.4	0.0	0.0	0.0	0.0	0.0	-69.1
14	17563971.93	4926448.85	196.97	0	E	4000	1.0	0.0	-11.8	0.0	0.0	57.8	7.2	-1.4	0.0	0.0	0.0	0.0	0.0	-74.4
14	17563971.93	4926448.85	196.97	0	E	8000	-1.1	0.0	-11.8	0.0	0.0	57.8	25.7	-1.4	0.0	0.0	0.0	0.0	0.0	-95.0

Point Source, ISO 9613, Name: "Loading5", ID: "I03!T!"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
16	17563974.49	4926441.19	197.00	0	D	32	-39.4	0.0	-11.8	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-106.0
16	17563974.49	4926441.19	197.00	0	D	63	-26.2	0.0	-11.8	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-92.8
16	17563974.49	4926441.19	197.00	0	D	125	-16.1	0.0	-11.8	0.0	0.0	58.0	0.1	1.4	0.0	0.0	0.0	0.0	0.0	-87.4
16	17563974.49	4926441.19	197.00	0	D	250	-8.6	0.0	-11.8	0.0	0.0	58.0	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	-78.4
16	17563974.49	4926441.19	197.00	0	D	500	-3.2	0.0	-11.8	0.0	0.0	58.0	0.4	-1.6	0.0	0.0	0.0	0.0	0.0	-71.9
16	17563974.49	4926441.19	197.00	0	D	1000	108.0	0.0	-11.8	0.0	0.0	58.0	0.8	-1.6	0.0	0.0	0.0	0.0	0.0	39.0
16	17563974.49	4926441.19	197.00	0	D	2000	1.2	0.0	-11.8	0.0	0.0	58.0	2.2	-1.6	0.0	0.0	0.0	0.0	0.0	-69.2
16	17563974.49	4926441.19	197.00	0	D	4000	1.0	0.0	-11.8	0.0	0.0	58.0	7.4	-1.6	0.0	0.0	0.0	0.0	0.0	-74.6
16	17563974.49	4926441.19	197.00	0	D	8000	-1.1	0.0	-11.8	0.0	0.0	58.0	26.2	-1.6	0.0	0.0	0.0	0.0	0.0	-95.6
16	17563974.49	4926441.19	197.00	0	N	32	-39.4	0.0	-188.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-282.2
16	17563974.49	4926441.19	197.00	0	N	63	-26.2	0.0	-188.0	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-269.1
16	17563974.49	4926441.19	197.00	0	N	125	-16.1	0.0	-188.0	0.0	0.0	58.0	0.1	1.4	0.0	0.0	0.0	0.0	0.0	-263.6
16	17563974.49	4926441.19	197.00	0	N	250	-8.6	0.0	-188.0	0.0	0.0	58.0	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	-254.7
16	17563974.49	4926441.19	197.00	0	N	500	-3.2	0.0	-188.0	0.0	0.0	58.0	0.4	-1.6	0.0	0.0	0.0	0.0	0.0	-248.1
16	17563974.49	4926441.19	197.00	0	N	1000	108.0	0.0	-188.0	0.0	0.0	58.0	0.8	-1.6	0.0	0.0	0.0	0.0	0.0	-137.3
16	17563974.49	4926441.19	197.00	0	N	2000	1.2	0.0	-188.0	0.0	0.0	58.0	2.2	-1.6	0.0	0.0	0.0	0.0	0.0	-245.4
16	17563974.49	4926441.19	197.00	0	N	4000	1.0	0.0	-188.0	0.0	0.0	58.0	7.4	-1.6	0.0	0.0	0.0	0.0	0.0	-250.8
16	17563974.49	4926441.19	197.00	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	58.0	26.2	-1.6	0.0	0.0	0.0	0.0	0.0	-271.8
16	17563974.49	4926441.19	197.00	0	E	32	-39.4	0.0	-11.8	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-106.0
16	17563974.49	4926441.19	197.00	0	E	63	-26.2	0.0	-11.8	0.0	0.0	58.0	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-92.8
16	17563974.49	4926441.19	197.00	0	E	125	-16.1	0.0	-11.8	0.0	0.0	58.0	0.1	1.4	0.0	0.0	0.0	0.0	0.0	-87.4
16	17563974.49	4926441.19	197.00	0	E	250	-8.6	0.0	-11.8	0.0	0.0	58.0	0.2	-0.2	0.0	0.0	0.0	0.0	0.0	-78.4
16	17563974.49	4926441.19	197.00	0	E	500	-3.2	0.0	-11.8	0.0	0.0	58.0	0.4	-1.6	0.0	0.0	0.0	0.0	0.0	-71.9
16	17563974.49	4926441.19	197.00	0	E	1000	108.0	0.0	-11.8	0.0	0.0	58.0	0.8	-1.6	0.0	0.0	0.0	0.0	0.0	39.0
16	17563974.49	4926441.19	197.00	0	E	2000	1.2	0.0	-11.8	0.0	0.0	58.0	2.2	-1.6	0.0	0.0	0.0	0.0	0.0	-69.2
16	17563974.49	4926441.19	197.00	0	E	4000	1.0	0.0	-11.8	0.0	0.0	58.0	7.4	-1.6	0.0	0.0	0.0	0.0	0.0	-74.6
16	17563974.49	4926441.19	197.00	0	E	8000	-1.1	0.0	-11.8	0.0	0.0	58.0	26.2	-1.6	0.0	0.0	0.0	0.0	0.0	-95.6

Point Source, ISO 9613, Name: "Loading4", ID: "I03!T!"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
18	17563976.75	4926434.62	197.02	0	D	32	-39.4	0.0	-11.8	0.0	0.0	58.2	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-106.1
18	17563976.75	4926434.62	197.02	0	D	63	-26.2	0.0	-11.8	0.0	0.0	58.2	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-92.9
18	17563976.75	4926434.62	197.02	0	D	125	-16.1	0.0	-11.8	0.0	0.0	58.2	0.1	1.3	0.0	0.0	0.0	0.0	0.0	-87.5
18	17563976.75	4926434.62	197.02	0	D	250	-8.6	0.0	-11.8	0.0	0.0	58.2	0.2	-0.3	0.0	0.0	0.0	0.0	0.0	-78.5
18	17563976.75	4926434.62	197.02	0	D	500	-3.2	0.0	-11.8	0.0	0.0	58.2	0.4	-1.7	0.0	0.0	0.0	0.0	0.0	-71.9
18	17563976.75	4926434.62	197.02	0	D	1000	108.0	0.0	-11.8	0.0	0.0	58.2	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	38.9
18	17563976.75	4926434.62	197.02	0	D	2000	1.2	0.0	-11.8	0.0	0.0	58.2	2.2	-1.7	0.0	0.0	0.0	0.0	0.0	-69.3
18	17563976.75	4926434.62	197.02	0	D	4000	1.0	0.0	-11.8	0.0	0.0	58.2	7.5	-1.7	0.0	0.0	0.0	0.0	0.0	-74.8
18	17563976.75	4926434.62	197.02	0	D	8000	-1.1	0.0	-11.8	0.0	0.0	58.2	26.8	-1.7	0.0	0.0	0.0	0.0	0.0	-96.1
18	17563976.75	4926434.62	197.02	0	N	32	-39.4	0.0	-188.0	0.0	0.0	58.2	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-282.4
18	17563976.75	4926434.62	197.02	0	N	63	-26.2	0.0	-188.0	0.0	0.0	58.2	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-269.2
18	17563976.75	4926434.62	197.02	0	N	125	-16.1	0.0	-188.0	0.0	0.0	58.2	0.1	1.3	0.0	0.0	0.0	0.0	0.0	-263.7
18	17563976.75	4926434.62	197.02	0	N	250	-8.6	0.0	-188.0	0.0	0.0	58.2	0.2	-0.3	0.0	0.0	0.0	0.0	0.0	-254.7
18	17563976.75	4926434.62	197.02	0	N	500	-3.2	0.0	-188.0	0.0	0.0	58.2	0.4	-1.7	0.0	0.0	0.0	0.0	0.0	-248.2
18	17563976.75	4926434.62	197.02	0	N	1000	108.0	0.0	-188.0	0.0	0.0	58.2	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	-137.4
18	17563976.75	4926434.62	197.02	0	N	2000	1.2	0.0	-188.0	0.0	0.0	58.2	2.2	-1.7	0.0	0.0	0.0	0.0	0.0	-245.5
18	17563976.75	4926434.62	197.02	0	N	4000	1.0	0.0	-188.0	0.0	0.0	58.2	7.5	-1.7	0.0	0.0	0.0	0.0	0.0	-251.0
18	17563976.75	4926434.62	197.02	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	58.2	26.8	-1.7	0.0	0.0	0.0	0.0	0.0	-272.4
18	17563976.75	4926434.62	197.02	0	E	32	-39.4	0.0	-11.8	0.0	0.0	58.2	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-106.1
18	17563976.75	4926434.62	197.02	0	E	63	-26.2	0.0	-11.8	0.0	0.0	58.2	0.0	-3.2	0.0	0.0	0.0	0.0	0.0	-92.9
18	17563976.75	4926434.62	197.02	0	E	125	-16.1	0.0	-11.8	0.0	0.0	58.2	0.1	1.3	0.0	0.0	0.0	0.0	0.0	-87.5
18	17563976.75	4926434.62	197.02	0	E	250	-8.6	0.0	-11.8	0.0	0.0	58.2	0.2	-0.3	0.0	0.0	0.0	0.0	0.0	-78.5
18	17563976.75	4926434.62	197.02	0	E	500	-3.2	0.0	-11.8	0.0	0.0	58.2	0.4	-1.7	0.0	0.0	0.0	0.0	0.0	-71.9

Point Source, ISO 9613, Name: "Loading4", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
18	17563976.75	4926434.62	197.02	0	E	1000	108.0	0.0	-11.8	0.0	0.0	58.2	0.8	-1.7	0.0	0.0	0.0	0.0	0.0	38.9
18	17563976.75	4926434.62	197.02	0	E	2000	1.2	0.0	-11.8	0.0	0.0	58.2	2.2	-1.7	0.0	0.0	0.0	0.0	0.0	-69.3
18	17563976.75	4926434.62	197.02	0	E	4000	1.0	0.0	-11.8	0.0	0.0	58.2	7.5	-1.7	0.0	0.0	0.0	0.0	0.0	-74.8
18	17563976.75	4926434.62	197.02	0	E	8000	-1.1	0.0	-11.8	0.0	0.0	58.2	26.8	-1.7	0.0	0.0	0.0	0.0	0.0	-96.1

Point Source, ISO 9613, Name: "Coupling1", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
39	17563953.80	4926461.40	196.87	0	D	32	-39.4	0.0	-26.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.4
39	17563953.80	4926461.40	196.87	0	D	63	-26.2	0.0	-26.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.2
39	17563953.80	4926461.40	196.87	0	D	125	-16.1	0.0	-26.0	0.0	0.0	57.0	0.1	2.8	0.0	0.0	0.0	0.0	0.0	-102.0
39	17563953.80	4926461.40	196.87	0	D	250	-8.6	0.0	-26.0	0.0	0.0	57.0	0.2	2.6	0.0	0.0	0.0	0.0	0.0	-94.4
39	17563953.80	4926461.40	196.87	0	D	500	-3.2	0.0	-26.0	0.0	0.0	57.0	0.4	-0.5	0.0	0.0	0.0	0.0	0.0	-86.0
39	17563953.80	4926461.40	196.87	0	D	1000	116.0	0.0	-26.0	0.0	0.0	57.0	0.7	-0.8	0.0	0.0	0.0	0.0	0.0	33.1
39	17563953.80	4926461.40	196.87	0	D	2000	1.2	0.0	-26.0	0.0	0.0	57.0	1.9	-0.9	0.0	0.0	0.0	0.0	0.0	-82.8
39	17563953.80	4926461.40	196.87	0	D	4000	1.0	0.0	-26.0	0.0	0.0	57.0	6.5	-0.9	0.0	0.0	0.0	0.0	0.0	-87.6
39	17563953.80	4926461.40	196.87	0	D	8000	-1.1	0.0	-26.0	0.0	0.0	57.0	23.2	-0.9	0.0	0.0	0.0	0.0	0.0	-106.4
39	17563953.80	4926461.40	196.87	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-281.4
39	17563953.80	4926461.40	196.87	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-268.2
39	17563953.80	4926461.40	196.87	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.0	0.1	2.8	0.0	0.0	0.0	0.0	0.0	-264.0
39	17563953.80	4926461.40	196.87	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.0	0.2	2.6	0.0	0.0	0.0	0.0	0.0	-256.3
39	17563953.80	4926461.40	196.87	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.0	0.4	-0.5	0.0	0.0	0.0	0.0	0.0	-248.0
39	17563953.80	4926461.40	196.87	0	N	1000	116.0	0.0	-188.0	0.0	0.0	57.0	0.7	-0.8	0.0	0.0	0.0	0.0	0.0	-128.8
39	17563953.80	4926461.40	196.87	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.0	1.9	-0.9	0.0	0.0	0.0	0.0	0.0	-244.8
39	17563953.80	4926461.40	196.87	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.0	6.5	-0.9	0.0	0.0	0.0	0.0	0.0	-249.6
39	17563953.80	4926461.40	196.87	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.0	23.2	-0.9	0.0	0.0	0.0	0.0	0.0	-268.4
39	17563953.80	4926461.40	196.87	0	E	32	-39.4	0.0	-26.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.4
39	17563953.80	4926461.40	196.87	0	E	63	-26.2	0.0	-26.0	0.0	0.0	57.0	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.2
39	17563953.80	4926461.40	196.87	0	E	125	-16.1	0.0	-26.0	0.0	0.0	57.0	0.1	2.8	0.0	0.0	0.0	0.0	0.0	-102.0
39	17563953.80	4926461.40	196.87	0	E	250	-8.6	0.0	-26.0	0.0	0.0	57.0	0.2	2.6	0.0	0.0	0.0	0.0	0.0	-94.4
39	17563953.80	4926461.40	196.87	0	E	500	-3.2	0.0	-26.0	0.0	0.0	57.0	0.4	-0.5	0.0	0.0	0.0	0.0	0.0	-86.0
39	17563953.80	4926461.40	196.87	0	E	1000	116.0	0.0	-26.0	0.0	0.0	57.0	0.7	-0.8	0.0	0.0	0.0	0.0	0.0	33.1
39	17563953.80	4926461.40	196.87	0	E	2000	1.2	0.0	-26.0	0.0	0.0	57.0	1.9	-0.9	0.0	0.0	0.0	0.0	0.0	-82.8
39	17563953.80	4926461.40	196.87	0	E	4000	1.0	0.0	-26.0	0.0	0.0	57.0	6.5	-0.9	0.0	0.0	0.0	0.0	0.0	-87.6
39	17563953.80	4926461.40	196.87	0	E	8000	-1.1	0.0	-26.0	0.0	0.0	57.0	23.2	-0.9	0.0	0.0	0.0	0.0	0.0	-106.4

Point Source, ISO 9613, Name: "Coupling2", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
48	17563956.01	4926455.71	196.89	0	D	32	-39.4	0.0	-26.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.5
48	17563956.01	4926455.71	196.89	0	D	63	-26.2	0.0	-26.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.4
48	17563956.01	4926455.71	196.89	0	D	125	-16.1	0.0	-26.0	0.0	0.0	57.1	0.1	2.5	0.0	0.0	0.0	0.0	0.0	-101.8
48	17563956.01	4926455.71	196.89	0	D	250	-8.6	0.0	-26.0	0.0	0.0	57.1	0.2	1.9	0.0	0.0	0.0	0.0	0.0	-93.8
48	17563956.01	4926455.71	196.89	0	D	500	-3.2	0.0	-26.0	0.0	0.0	57.1	0.4	-0.8	0.0	0.0	0.0	0.0	0.0	-86.0
48	17563956.01	4926455.71	196.89	0	D	1000	116.0	0.0	-26.0	0.0	0.0	57.1	0.7	-1.0	0.0	0.0	0.0	0.0	0.0	33.1
48	17563956.01	4926455.71	196.89	0	D	2000	1.2	0.0	-26.0	0.0	0.0	57.1	2.0	-1.0	0.0	0.0	0.0	0.0	0.0	-82.9
48	17563956.01	4926455.71	196.89	0	D	4000	1.0	0.0	-26.0	0.0	0.0	57.1	6.6	-1.0	0.0	0.0	0.0	0.0	0.0	-87.7
48	17563956.01	4926455.71	196.89	0	D	8000	-1.1	0.0	-26.0	0.0	0.0	57.1	23.6	-1.0	0.0	0.0	0.0	0.0	0.0	-106.9
48	17563956.01	4926455.71	196.89	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-281.5
48	17563956.01	4926455.71	196.89	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-268.3
48	17563956.01	4926455.71	196.89	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.1	0.1	2.5	0.0	0.0	0.0	0.0	0.0	-263.8
48	17563956.01	4926455.71	196.89	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.1	0.2	1.9	0.0	0.0	0.0	0.0	0.0	-255.8
48	17563956.01	4926455.71	196.89	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.1	0.4	-0.8	0.0	0.0	0.0	0.0	0.0	-247.9
48	17563956.01	4926455.71	196.89	0	N	1000	116.0	0.0	-188.0	0.0	0.0	57.1	0.7	-1.0	0.0	0.0	0.0	0.0	0.0	-128.8
48	17563956.01	4926455.71	196.89	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.1	2.0	-1.0	0.0	0.0	0.0	0.0	0.0	-244.8
48	17563956.01	4926455.71	196.89	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.1	6.6	-1.0	0.0	0.0	0.0	0.0	0.0	-249.7
48	17563956.01	4926455.71	196.89	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.1	23.6	-1.0	0.0	0.0	0.0	0.0	0.0	-268.8
48	17563956.01	4926455.71	196.89	0	E	32	-39.4	0.0	-26.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.5
48	17563956.01	4926455.71	196.89	0	E	63	-26.2	0.0	-26.0	0.0	0.0	57.1	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.4
48	17563956.01	4926455.71	196.89	0	E	125	-16.1	0.0	-26.0	0.0	0.0	57.1	0.1	2.5	0.0	0.0	0.0	0.0	0.0	-101.8
48	17563956.01	4926455.71	196.89	0	E	250	-8.6	0.0	-26.0	0.0	0.0	57.1	0.2	1.9	0.0	0.0	0.0	0.0	0.0	-93.8
48	17563956.01	4926455.71	196.89	0	E	500	-3.2	0.0	-26.0	0.0	0.0	57.1	0.4	-0.8	0.0	0.0	0.0	0.0	0.0	-86.0
48	17563956.01	4926455.71	196.89	0	E	1000	116.0	0.0	-26.0	0.0	0.0	57.1	0.7	-1.0	0.0	0.0	0.0	0.0	0.0	33.1

Point Source, ISO 9613, Name: "Coupling2", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
48	17563956.01	4926455.71	196.89	0	E	2000	1.2	0.0	-26.0	0.0	0.0	57.1	2.0	-1.0	0.0	0.0	0.0	0.0	0.0	-82.9
48	17563956.01	4926455.71	196.89	0	E	4000	1.0	0.0	-26.0	0.0	0.0	57.1	6.6	-1.0	0.0	0.0	0.0	0.0	0.0	-87.7
48	17563956.01	4926455.71	196.89	0	E	8000	-1.1	0.0	-26.0	0.0	0.0	57.1	23.6	-1.0	0.0	0.0	0.0	0.0	0.0	-106.9

Point Source, ISO 9613, Name: "Coupling3", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
50	17563957.59	4926450.50	196.90	0	D	32	-39.4	0.0	-26.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.7
50	17563957.59	4926450.50	196.90	0	D	63	-26.2	0.0	-26.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.5
50	17563957.59	4926450.50	196.90	0	D	125	-16.1	0.0	-26.0	0.0	0.0	57.3	0.1	2.2	0.0	0.0	0.0	0.0	0.0	-101.6
50	17563957.59	4926450.50	196.90	0	D	250	-8.6	0.0	-26.0	0.0	0.0	57.3	0.2	1.3	0.0	0.0	0.0	0.0	0.0	-93.3
50	17563957.59	4926450.50	196.90	0	D	500	-3.2	0.0	-26.0	0.0	0.0	57.3	0.4	-1.0	0.0	0.0	0.0	0.0	0.0	-85.9
50	17563957.59	4926450.50	196.90	0	D	1000	116.0	0.0	-26.0	0.0	0.0	57.3	0.8	-1.2	0.0	0.0	0.0	0.0	0.0	33.1
50	17563957.59	4926450.50	196.90	0	D	2000	1.2	0.0	-26.0	0.0	0.0	57.3	2.0	-1.2	0.0	0.0	0.0	0.0	0.0	-82.9
50	17563957.59	4926450.50	196.90	0	D	4000	1.0	0.0	-26.0	0.0	0.0	57.3	6.7	-1.2	0.0	0.0	0.0	0.0	0.0	-87.8
50	17563957.59	4926450.50	196.90	0	D	8000	-1.1	0.0	-26.0	0.0	0.0	57.3	24.0	-1.2	0.0	0.0	0.0	0.0	0.0	-107.2
50	17563957.59	4926450.50	196.90	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-281.7
50	17563957.59	4926450.50	196.90	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-268.5
50	17563957.59	4926450.50	196.90	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.3	0.1	2.2	0.0	0.0	0.0	0.0	0.0	-263.6
50	17563957.59	4926450.50	196.90	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.3	0.2	1.3	0.0	0.0	0.0	0.0	0.0	-255.3
50	17563957.59	4926450.50	196.90	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.3	0.4	-1.0	0.0	0.0	0.0	0.0	0.0	-247.9
50	17563957.59	4926450.50	196.90	0	N	1000	116.0	0.0	-188.0	0.0	0.0	57.3	0.8	-1.2	0.0	0.0	0.0	0.0	0.0	-128.8
50	17563957.59	4926450.50	196.90	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.3	2.0	-1.2	0.0	0.0	0.0	0.0	0.0	-244.9
50	17563957.59	4926450.50	196.90	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.3	6.7	-1.2	0.0	0.0	0.0	0.0	0.0	-249.8
50	17563957.59	4926450.50	196.90	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.3	24.0	-1.2	0.0	0.0	0.0	0.0	0.0	-269.2
50	17563957.59	4926450.50	196.90	0	E	32	-39.4	0.0	-26.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.7
50	17563957.59	4926450.50	196.90	0	E	63	-26.2	0.0	-26.0	0.0	0.0	57.3	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.5
50	17563957.59	4926450.50	196.90	0	E	125	-16.1	0.0	-26.0	0.0	0.0	57.3	0.1	2.2	0.0	0.0	0.0	0.0	0.0	-101.6
50	17563957.59	4926450.50	196.90	0	E	250	-8.6	0.0	-26.0	0.0	0.0	57.3	0.2	1.3	0.0	0.0	0.0	0.0	0.0	-93.3
50	17563957.59	4926450.50	196.90	0	E	500	-3.2	0.0	-26.0	0.0	0.0	57.3	0.4	-1.0	0.0	0.0	0.0	0.0	0.0	-85.9
50	17563957.59	4926450.50	196.90	0	E	1000	116.0	0.0	-26.0	0.0	0.0	57.3	0.8	-1.2	0.0	0.0	0.0	0.0	0.0	33.1
50	17563957.59	4926450.50	196.90	0	E	2000	1.2	0.0	-26.0	0.0	0.0	57.3	2.0	-1.2	0.0	0.0	0.0	0.0	0.0	-82.9
50	17563957.59	4926450.50	196.90	0	E	4000	1.0	0.0	-26.0	0.0	0.0	57.3	6.7	-1.2	0.0	0.0	0.0	0.0	0.0	-87.8
50	17563957.59	4926450.50	196.90	0	E	8000	-1.1	0.0	-26.0	0.0	0.0	57.3	24.0	-1.2	0.0	0.0	0.0	0.0	0.0	-107.2

Point Source, ISO 9613, Name: "Loading4", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
61	17563964.91	4926430.04	196.97	0	D	32	-39.4	0.0	-25.5	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-119.6
61	17563964.91	4926430.04	196.97	0	D	63	-26.2	0.0	-25.5	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-106.4
61	17563964.91	4926430.04	196.97	0	D	125	-16.1	0.0	-25.5	0.0	0.0	57.8	0.1	1.4	0.0	0.0	0.0	0.0	0.0	-100.9
61	17563964.91	4926430.04	196.97	0	D	250	-8.6	0.0	-25.5	0.0	0.0	57.8	0.2	-0.3	0.0	0.0	0.0	0.0	0.0	-91.9
61	17563964.91	4926430.04	196.97	0	D	500	-3.2	0.0	-25.5	0.0	0.0	57.8	0.4	-1.6	0.0	0.0	0.0	0.0	0.0	-85.3
61	17563964.91	4926430.04	196.97	0	D	1000	116.0	0.0	-25.5	0.0	0.0	57.8	0.8	-1.6	0.0	0.0	0.0	0.0	0.0	33.5
61	17563964.91	4926430.04	196.97	0	D	2000	1.2	0.0	-25.5	0.0	0.0	57.8	2.1	-1.6	0.0	0.0	0.0	0.0	0.0	-82.6
61	17563964.91	4926430.04	196.97	0	D	4000	1.0	0.0	-25.5	0.0	0.0	57.8	7.2	-1.6	0.0	0.0	0.0	0.0	0.0	-87.9
61	17563964.91	4926430.04	196.97	0	D	8000	-1.1	0.0	-25.5	0.0	0.0	57.8	25.7	-1.6	0.0	0.0	0.0	0.0	0.0	-108.5
61	17563964.91	4926430.04	196.97	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-282.1
61	17563964.91	4926430.04	196.97	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-268.9
61	17563964.91	4926430.04	196.97	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.8	0.1	1.4	0.0	0.0	0.0	0.0	0.0	-263.4
61	17563964.91	4926430.04	196.97	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.8	0.2	-0.3	0.0	0.0	0.0	0.0	0.0	-254.4
61	17563964.91	4926430.04	196.97	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.8	0.4	-1.6	0.0	0.0	0.0	0.0	0.0	-247.8
61	17563964.91	4926430.04	196.97	0	N	1000	116.0	0.0	-188.0	0.0	0.0	57.8	0.8	-1.6	0.0	0.0	0.0	0.0	0.0	-129.0
61	17563964.91	4926430.04	196.97	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.8	2.1	-1.6	0.0	0.0	0.0	0.0	0.0	-245.1
61	17563964.91	4926430.04	196.97	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.8	7.2	-1.6	0.0	0.0	0.0	0.0	0.0	-250.4
61	17563964.91	4926430.04	196.97	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.8	25.7	-1.6	0.0	0.0	0.0	0.0	0.0	-271.0
61	17563964.91	4926430.04	196.97	0	E	32	-39.4	0.0	-25.5	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-119.6
61	17563964.91	4926430.04	196.97	0	E	63	-26.2	0.0	-25.5	0.0	0.0	57.8	0.0	-3.1	0.0	0.0	0.0	0.0	0.0	-106.4
61	17563964.91	4926430.04	196.97	0	E	125	-16.1	0.0	-25.5	0.0	0.0	57.8	0.1	1.4	0.0	0.0	0.0	0.0	0.0	-100.9
61	17563964.91	4926430.04	196.97	0	E	250	-8.6	0.0	-25.5	0.0	0.0	57.8	0.2	-0.3	0.0	0.0	0.0	0.0	0.0	-91.9
61	17563964.91	4926430.04	196.97	0	E	500	-3.2	0.0	-25.5	0.0	0.0	57.8	0.4	-1.6	0.0	0.0	0.0	0.0	0.0	-85.3
61	17563964.91	4926430.04	196.97	0	E	1000	116.0	0.0	-25.5	0.0	0.0	57.8	0.8	-1.6	0.0	0.0	0.0	0.0	0.0	33.5
61	17563964.91	4926430.04	196.97	0	E	2000	1.2	0.0	-25.5	0.0	0.0	57.8	2.1	-1.6	0.0	0.0	0.0	0.0	0.0	-82.6

Point Source, ISO 9613, Name: "Loading4", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)
61	17563964.91	4926430.04	196.97	0	E	4000	1.0	0.0	-25.5	0.0	0.0	57.8	7.2	-1.6	0.0	0.0	0.0	0.0	0.0	-87.9
61	17563964.91	4926430.04	196.97	0	E	8000	-1.1	0.0	-25.5	0.0	0.0	57.8	25.7	-1.6	0.0	0.0	0.0	0.0	0.0	-108.5

Point Source, ISO 9613, Name: "Coupling4", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
69	17563959.80	4926444.82	196.92	0	D	32	-39.4	0.0	-26.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.9
69	17563959.80	4926444.82	196.92	0	D	63	-26.2	0.0	-26.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.7
69	17563959.80	4926444.82	196.92	0	D	125	-16.1	0.0	-26.0	0.0	0.0	57.4	0.1	1.9	0.0	0.0	0.0	0.0	0.0	-101.5
69	17563959.80	4926444.82	196.92	0	D	250	-8.6	0.0	-26.0	0.0	0.0	57.4	0.2	0.6	0.0	0.0	0.0	0.0	0.0	-92.9
69	17563959.80	4926444.82	196.92	0	D	500	-3.2	0.0	-26.0	0.0	0.0	57.4	0.4	-1.2	0.0	0.0	0.0	0.0	0.0	-85.8
69	17563959.80	4926444.82	196.92	0	D	1000	116.0	0.0	-26.0	0.0	0.0	57.4	0.8	-1.3	0.0	0.0	0.0	0.0	0.0	33.1
69	17563959.80	4926444.82	196.92	0	D	2000	1.2	0.0	-26.0	0.0	0.0	57.4	2.0	-1.3	0.0	0.0	0.0	0.0	0.0	-82.9
69	17563959.80	4926444.82	196.92	0	D	4000	1.0	0.0	-26.0	0.0	0.0	57.4	6.9	-1.3	0.0	0.0	0.0	0.0	0.0	-88.0
69	17563959.80	4926444.82	196.92	0	D	8000	-1.1	0.0	-26.0	0.0	0.0	57.4	24.5	-1.3	0.0	0.0	0.0	0.0	0.0	-107.7
69	17563959.80	4926444.82	196.92	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-281.8
69	17563959.80	4926444.82	196.92	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-268.6
69	17563959.80	4926444.82	196.92	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.4	0.1	1.9	0.0	0.0	0.0	0.0	0.0	-263.5
69	17563959.80	4926444.82	196.92	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.4	0.2	0.6	0.0	0.0	0.0	0.0	0.0	-254.8
69	17563959.80	4926444.82	196.92	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.4	0.4	-1.2	0.0	0.0	0.0	0.0	0.0	-247.8
69	17563959.80	4926444.82	196.92	0	N	1000	116.0	0.0	-188.0	0.0	0.0	57.4	0.8	-1.3	0.0	0.0	0.0	0.0	0.0	-128.9
69	17563959.80	4926444.82	196.92	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.4	2.0	-1.3	0.0	0.0	0.0	0.0	0.0	-244.9
69	17563959.80	4926444.82	196.92	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.4	6.9	-1.3	0.0	0.0	0.0	0.0	0.0	-250.0
69	17563959.80	4926444.82	196.92	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.4	24.5	-1.3	0.0	0.0	0.0	0.0	0.0	-269.7
69	17563959.80	4926444.82	196.92	0	E	32	-39.4	0.0	-26.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-119.9
69	17563959.80	4926444.82	196.92	0	E	63	-26.2	0.0	-26.0	0.0	0.0	57.4	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.7
69	17563959.80	4926444.82	196.92	0	E	125	-16.1	0.0	-26.0	0.0	0.0	57.4	0.1	1.9	0.0	0.0	0.0	0.0	0.0	-101.5
69	17563959.80	4926444.82	196.92	0	E	250	-8.6	0.0	-26.0	0.0	0.0	57.4	0.2	0.6	0.0	0.0	0.0	0.0	0.0	-92.9
69	17563959.80	4926444.82	196.92	0	E	500	-3.2	0.0	-26.0	0.0	0.0	57.4	0.4	-1.2	0.0	0.0	0.0	0.0	0.0	-85.8
69	17563959.80	4926444.82	196.92	0	E	1000	116.0	0.0	-26.0	0.0	0.0	57.4	0.8	-1.3	0.0	0.0	0.0	0.0	0.0	33.1
69	17563959.80	4926444.82	196.92	0	E	2000	1.2	0.0	-26.0	0.0	0.0	57.4	2.0	-1.3	0.0	0.0	0.0	0.0	0.0	-82.9
69	17563959.80	4926444.82	196.92	0	E	4000	1.0	0.0	-26.0	0.0	0.0	57.4	6.9	-1.3	0.0	0.0	0.0	0.0	0.0	-88.0
69	17563959.80	4926444.82	196.92	0	E	8000	-1.1	0.0	-26.0	0.0	0.0	57.4	24.5	-1.3	0.0	0.0	0.0	0.0	0.0	-107.7

Point Source, ISO 9613, Name: "Coupling5", ID: "I03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
71	17563961.46	4926437.55	196.94	0	D	32	-39.4	0.0	-26.0	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-120.0
71	17563961.46	4926437.55	196.94	0	D	63	-26.2	0.0	-26.0	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.8
71	17563961.46	4926437.55	196.94	0	D	125	-16.1	0.0	-26.0	0.0	0.0	57.6	0.1	1.5	0.0	0.0	0.0	0.0	0.0	-101.3
71	17563961.46	4926437.55	196.94	0	D	250	-8.6	0.0	-26.0	0.0	0.0	57.6	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	-92.3
71	17563961.46	4926437.55	196.94	0	D	500	-3.2	0.0	-26.0	0.0	0.0	57.6	0.4	-1.5	0.0	0.0	0.0	0.0	0.0	-85.7
71	17563961.46	4926437.55	196.94	0	D	1000	116.0	0.0	-26.0	0.0	0.0	57.6	0.8	-1.5	0.0	0.0	0.0	0.0	0.0	33.1
71	17563961.46	4926437.55	196.94	0	D	2000	1.2	0.0	-26.0	0.0	0.0	57.6	2.1	-1.5	0.0	0.0	0.0	0.0	0.0	-83.0
71	17563961.46	4926437.55	196.94	0	D	4000	1.0	0.0	-26.0	0.0	0.0	57.6	7.0	-1.5	0.0	0.0	0.0	0.0	0.0	-88.1
71	17563961.46	4926437.55	196.94	0	D	8000	-1.1	0.0	-26.0	0.0	0.0	57.6	25.0	-1.5	0.0	0.0	0.0	0.0	0.0	-108.2
71	17563961.46	4926437.55	196.94	0	N	32	-39.4	0.0	-188.0	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-282.0
71	17563961.46	4926437.55	196.94	0	N	63	-26.2	0.0	-188.0	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-268.8
71	17563961.46	4926437.55	196.94	0	N	125	-16.1	0.0	-188.0	0.0	0.0	57.6	0.1	1.5	0.0	0.0	0.0	0.0	0.0	-263.3
71	17563961.46	4926437.55	196.94	0	N	250	-8.6	0.0	-188.0	0.0	0.0	57.6	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	-254.3
71	17563961.46	4926437.55	196.94	0	N	500	-3.2	0.0	-188.0	0.0	0.0	57.6	0.4	-1.5	0.0	0.0	0.0	0.0	0.0	-247.7
71	17563961.46	4926437.55	196.94	0	N	1000	116.0	0.0	-188.0	0.0	0.0	57.6	0.8	-1.5	0.0	0.0	0.0	0.0	0.0	-128.9
71	17563961.46	4926437.55	196.94	0	N	2000	1.2	0.0	-188.0	0.0	0.0	57.6	2.1	-1.5	0.0	0.0	0.0	0.0	0.0	-245.0
71	17563961.46	4926437.55	196.94	0	N	4000	1.0	0.0	-188.0	0.0	0.0	57.6	7.0	-1.5	0.0	0.0	0.0	0.0	0.0	-250.1
71	17563961.46	4926437.55	196.94	0	N	8000	-1.1	0.0	-188.0	0.0	0.0	57.6	25.0	-1.5	0.0	0.0	0.0	0.0	0.0	-270.2
71	17563961.46	4926437.55	196.94	0	E	32	-39.4	0.0	-26.0	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-120.0
71	17563961.46	4926437.55	196.94	0	E	63	-26.2	0.0	-26.0	0.0	0.0	57.6	0.0	-3.0	0.0	0.0	0.0	0.0	0.0	-106.8
71	17563961.46	4926437.55	196.94	0	E	125	-16.1	0.0	-26.0	0.0	0.0	57.6	0.1	1.5	0.0	0.0	0.0	0.0	0.0	-101.3
71	17563961.46	4926437.55	196.94	0	E	250	-8.6	0.0	-26.0	0.0	0.0	57.6	0.2	-0.1	0.0	0.0	0.0	0.0	0.0	-92.3
71	17563961.46	4926437.55	196.94	0	E	500	-3.2	0.0	-26.0	0.0	0.0	57.6	0.4	-1.5	0.0	0.0	0.0	0.0	0.0	-85.7
71	17563961.46	4926437.55	196.94	0	E	1000	116.0	0.0	-26.0	0.0	0.0	57.6	0.8	-1.5	0.0	0.0	0.0	0.0	0.0	33.1
71	17563961.46	4926437.55	196.94	0	E	2000	1.2	0.0	-26.0	0.0	0.0	57.6	2.1	-1.5	0.0	0.0	0.0	0.0	0.0	-83.0
71	17563961.46	4926437.55	196.94	0	E	4000	1.0	0.0	-26.0	0.0	0.0	57.6	7.0	-1.5	0.0	0.0	0.0	0.0	0.0	-88.1

Point Source, ISO 9613, Name: "Coupling5", ID: "!03!TI"																				
Nr.	X	Y	Z	Refl.	DEN	Freq.	Lw	l/a	Optime	K0	Di	Adiv	Aatm	Agr	Afol	Ahous	Abar	Cmet	RL	Lr
	(m)	(m)	(m)			(Hz)	dB(A)	dB	dB	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	(dB)	dB(A)
71	17563961.46	4926437.55	196.94	0	E	8000	-1.1	0.0	-26.0	0.0	0.0	57.6	25.0	-1.5	0.0	0.0	0.0	0.0	0.0	-108.2