

NOISE IMPACT STUDY

“PROLOGIS DATA CENTRE DEVELOPMENT”
7564 TENTH LINE WEST
PART OF LOT 14,
CONCESSION 10, NEW SURVEY,
TOWNSHIP OF TRAFALGAR,
CITY OF MISSISSAUGA

Prepared for:

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1.0 INTRODUCTION

dBA Acoustical Consulting Inc. has been retained to provide a Noise Impact Study on behalf of Prologis Inc. (Canada) for lands located at 7564 Tenth Line West, Mississauga, ON. Proposed is a one 2-storey Data Centre.

The purpose of the study is to determine the noise impact on nearby properties mechanical equipment from the data centre and will recommend noise mitigation measures (if required).

This study will assess noise impact pursuant to Ontario Ministry of the Environment, Conservation and Parks (MECP) in Publication NPC-300, Transport and Stationary noise guidelines and recommend appropriate noise control mitigation measures within the proposed development to meet MECP Publication NPC-300 entitled “Stationary & Transportation Sources-Approval & Planning guidelines. See attached Figure 1 Site Location.

2.0 SITE DESCRIPTION

The proposed site is located south of Highway 401, east of Highway 407 ramp, west of Tenth Line West and north of Argentia Road. South of the proposed development are two large existing warehouse buildings.

There is a designated historical house and buildings located at 7564 Tenth Line West (Historical Home), north of the proposed development. Further north and to the west is Highway 401 followed by Highway 407. To the northeast of the proposed development, east of Tenth Line West, is 7755 Tenth Line West, Hope Church Mississauga, with agricultural lands to the east. Noise impact from the proposed development on these two properties will be discussed later in the report. See Appendix “B” for Area Overview Location Map.

The proposed 2-storey data centre is located east of the proposed Industrial Building DC5 and will not have any transport trucks on site.

3.0 REGULATORY CONTEXT

The MECP Publication NPC-300 - Stationary and Transportation Source Guidelines defines a point of reception/receptor as “*any point on the premises of a person where the sound or vibration originating from other than those premises is received.*”

The point of reception may be located on any of the following, or zoned for future use, premises including but not limited to the following: residential homes, hospitals, nursing/retirement homes, etc.

Table 1.1A
Exclusion Limit Values of One-Hour Equivalent Sound Level (Leq, dBA)
Outdoor Points of Reception

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00-19:00	50	50	45	55
19:00-23:00	50	45	40	55

Table 1.1B
Exclusion Limit Values of One-Hour Equivalent Sound Level (Leq, dBA)
Plane of Window of Noise Sensitive Spaces

Time of Day	Class 1 Area	Class 2 Area	Class 3 Area	Class 4 Area
07:00-19:00	50	50	45	60
19:00-23:00	50	50	40	60
23:00-07:00	45	45	40	55

4.0 STATIONARY NOISE SOURCES

4.1 EMERGENCY POWER GENERATORS

The fourteen (14) ground level emergency power generators are located approximately 185m west of 7755 Tenth Line West (Church), 100m south of 7564 Tenth Line West (Heritage Home) and are included in Appendix “B” to show that these units are well below 50 dBA for the daytime and 45 dBA for nighttime. Therefore, noise mitigation measures are not required for emergency power generators.

4.2 TRANSFORMERS

There are two (2) ground level Transformers in the utility yard approximately 310m southwest of 7755 Tenth Line West (Church) and 140m southwest of 7564 Tenth Line West (Heritage Home). There are also fourteen (14) ground level Transformers approximately 190m south of 7755 Tenth Line West (Church) and 120m southeast of 7564 Tenth Line West (Heritage Home). These are included in Appendix “B” and show that these units are well below the 50 dBA limit for both daytime and nighttime hours. Therefore, noise mitigation measures are not required for either of the transformer locations.

4.3 ROOFTOP UNITS (DATA CENTRE)

There are thirty-seven (37) rooftop units on the Data Centre, and they are located approximately 140m south of 7755 Tenth Line West (Church) and 200m south of 7564 Tenth Line West (Heritage Home). These are included in Appendix “B” and show that when these units are combined, they are below the 50 dBA for the daytime and nighttime limits. Therefore, noise mitigation measures are not required for the Data centre rooftop units.

4.4 STATIONARY NOISE SOURCES COMBINED

When all the data centre rooftop units are combined with all the transformers and generator #1, they are still below MECP noise guidelines and noise mitigation measures are not required. See Appendix “B” for calculations.

5.0 SUMMARY OF RECOMMENDATIONS

The following noise control measures are required for this warehouse development:

- **No noise control measures are required**

6.0 CONCLUSIONS

dBA Acoustical Consulting Inc. has provided a Noise Impact Study on behalf of Prologis Inc. (Canada) for lands located at 7564 Tenth Line West, Mississauga, ON. Proposed is a one 2-storey Data Centre.

This study assessed noise impact pursuant to Ontario Ministry of the Environment, Conservation and Parks (MECP) in Publication NPC-300, provincial noise guidelines and recommended that no noise control mitigation measures within the proposed Data Centre development are necessary to meet MECP Publication NPC-300 entitled “Stationary & Transportation Sources-Approval & Planning guidelines other than those noted in the summary of recommendations above.

FIGURE 1
KEY PLAN

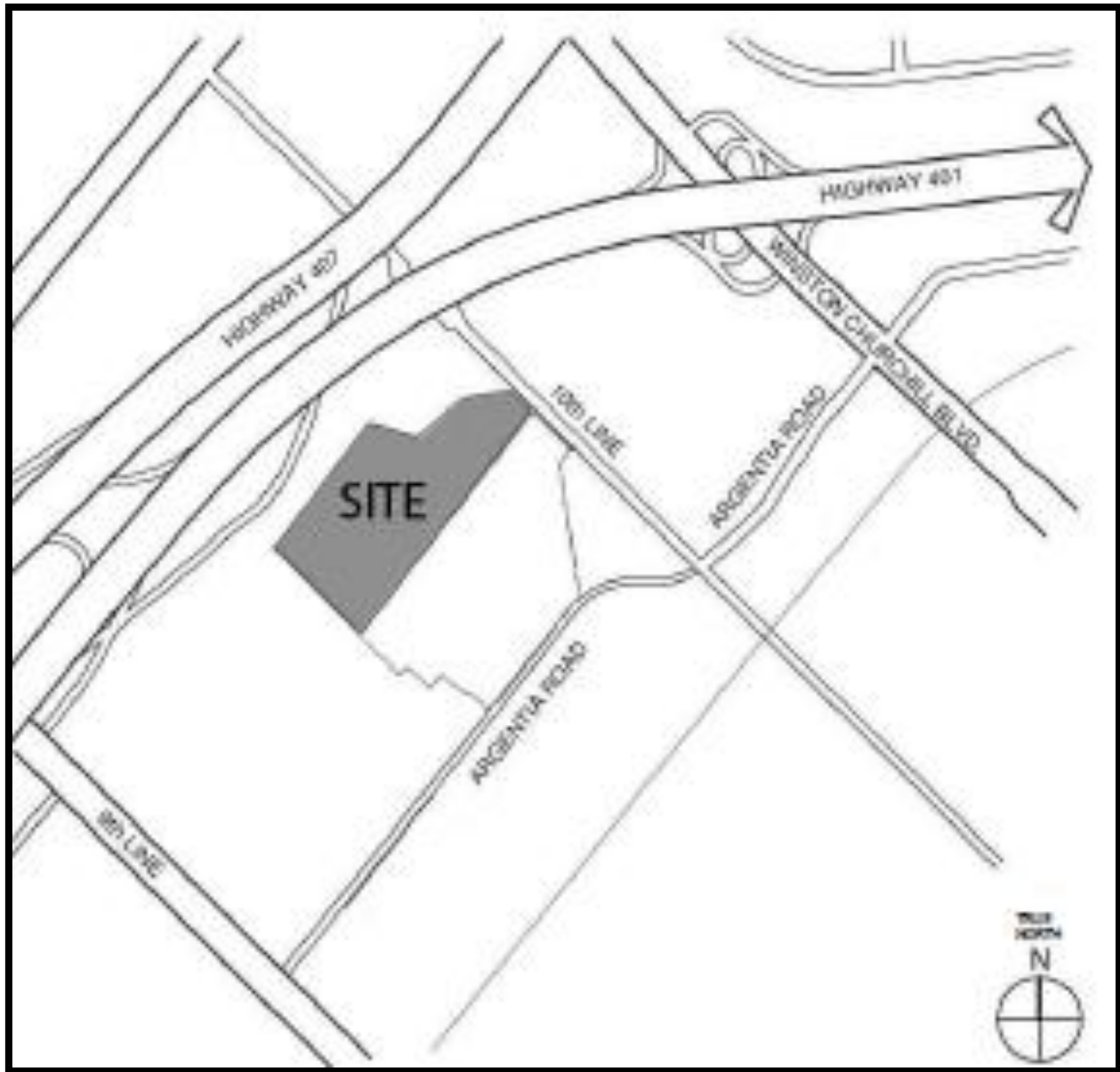
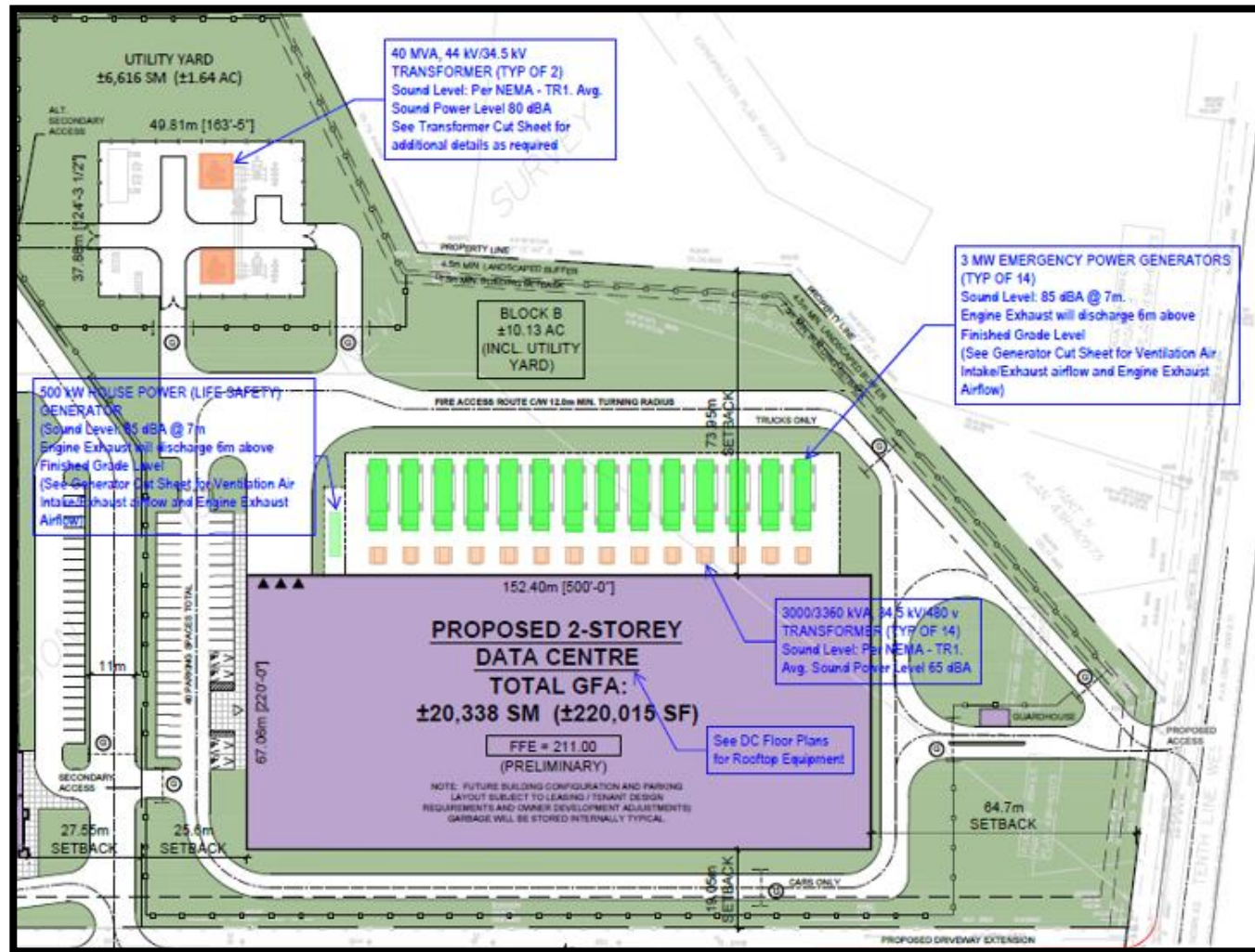


FIGURE 2
SITE PLAN



APPENDIX “A”

PROJECT DATA

PROJECT DATA				
<u>7564 TENTH LINE WEST</u>				
ZONING CATEGORY	EMPLOYMENT - E2 (EXISTING D-8)			
PROPOSED USE	INDUSTRIAL BUSINESS			
CITY OF MISSISSAUGA ZONING BY-LAW NO. 0225-2007 Part 8 Table 8.2.1.				
ZONING REGULATIONS	REQ'D	BLDG DC4	BLDG DC4	DATA CENTRE
	(m)	(m)	(m)	(m)
MIN. LOT FRONTAGE	30			
MIN. HEIGHT	N/A			
MIN. FRONT YARD BUILDING SETBACK	7.5			
MIN. INTERIOR SIDE YARD BUILDING SETBACK	7.5			
MIN. EXTERIOR SIDE YARD BUILDING SETBACK	7.5			
MIN. REAR YARD BUILDING SETBACK	7.5			
MIN. LANDSCAPED BUFFER MEASURED FROM				
- A LOT LINE ABUTTING A RESIDENTIAL ZONE	7.0			
- A LOT LINE THAT IS A STREET LINE	4.5			
- A LOT LINE ABUTTING AN INSTITUTIONAL, OFFICE, COMMERCIAL, DOWNTOWN CORE, PARKWAY BELT, BUFFER ZONE OR ANY COMBINATION OF ZONES THEREOF	3.0			
- A LOT LINE ABUTTING AN EMPLOYMENT, UTILITY, AIRPORT ZONE OR ANY COMBINATION OF ZONES THEREOF	0.0			
- ANY OTHER LOT LINE	4.5			

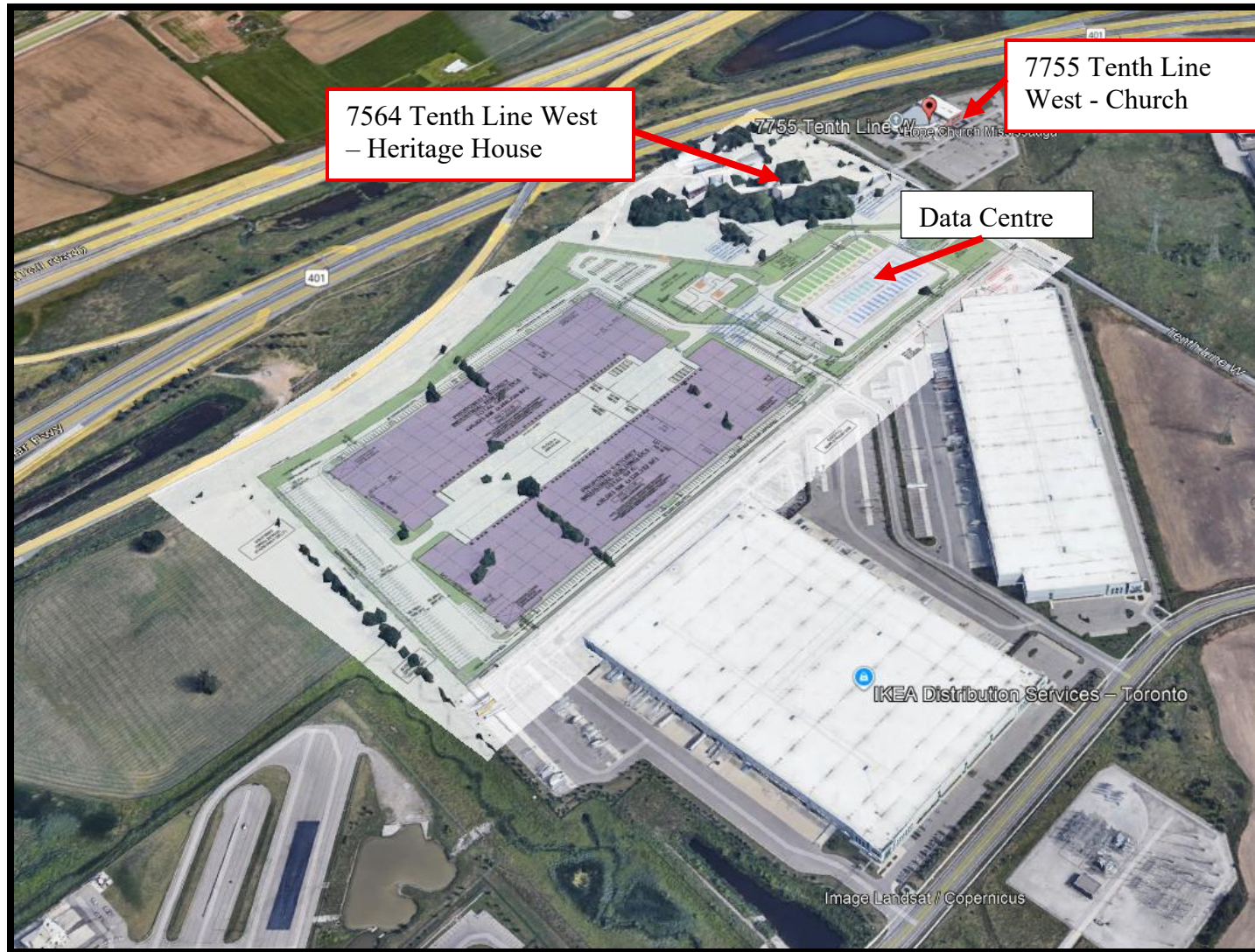
SITE AREA AND COVERAGE		
	PROPOSED	
	(m2)	(AC)
GROSS SITE AREA	161,717.66	39.94
BLOCK A - INDUSTRIAL LAND	120,735.87	29.81
BLOCK B - DATA CENTRE LAND	40,981.79	10.13
UTILITY YARD	27,951.00	6.94
LANDSCAPE COVERAGE		
	PROPOSED	
	(m2)	(ft ²)
INDUSTRIAL BUILDING DC4	26,823.00	288,720
INDUSTRIAL BUILDING DC5	30,503.00	328,330
DATA CENTRE - LEVEL 1	10,219.00	109,990
DATA CENTRE - LEVEL 2	10,219.00	109,990
TOTAL BUILDING FOOTPRINT	98,048.00	1,055,380
TOTAL BUILDING GFA	108,267.00	1,165,370
LOT COVERAGE	0.61	

PARKING REQUIREMENTS (0225-2007 Part 3 Table 3.1.2.2.)		
Warehouse / Distribution Facility		
- 1.1 SPACES PER 100m2 GFA UP TO 6,975 m2 GFA - 0.6 SPACES PER 100m2 GFA OVER 6,975 m2 GFA		
	PROPOSED	REQUIRED
INDUSTRIAL BUILDING DC4	341	196
INDUSTRIAL BUILDING DC5	155	218
DATA CENTRE	40	40
TOTAL NO. OF PARKING SPACES	536	454
ACCESSIBLE PARKING SPACES		
INDUSTRIAL BUILDING DC4	8	7
INDUSTRIAL BUILDING DC5	8	8
DATA CENTRE	4	4
TOTAL NO. OF ACCESSIBLE PARKING SPACES	20	18
ELECTRIC VEHICLE PARKING SPACES		
INDUSTRIAL BUILDING DC4	20	20
INDUSTRIAL BUILDING DC5	22	22
DATA CENTRE	4	4
TOTAL NO. OF ELECTRIC VEHICLE PARKING SPACES	45	45
MIN. PARKING SPACE DIMENSIONS		
	STANDARD - 2.6m X 5.2m	
MIN. AISLE WIDTH		
	7.0m	

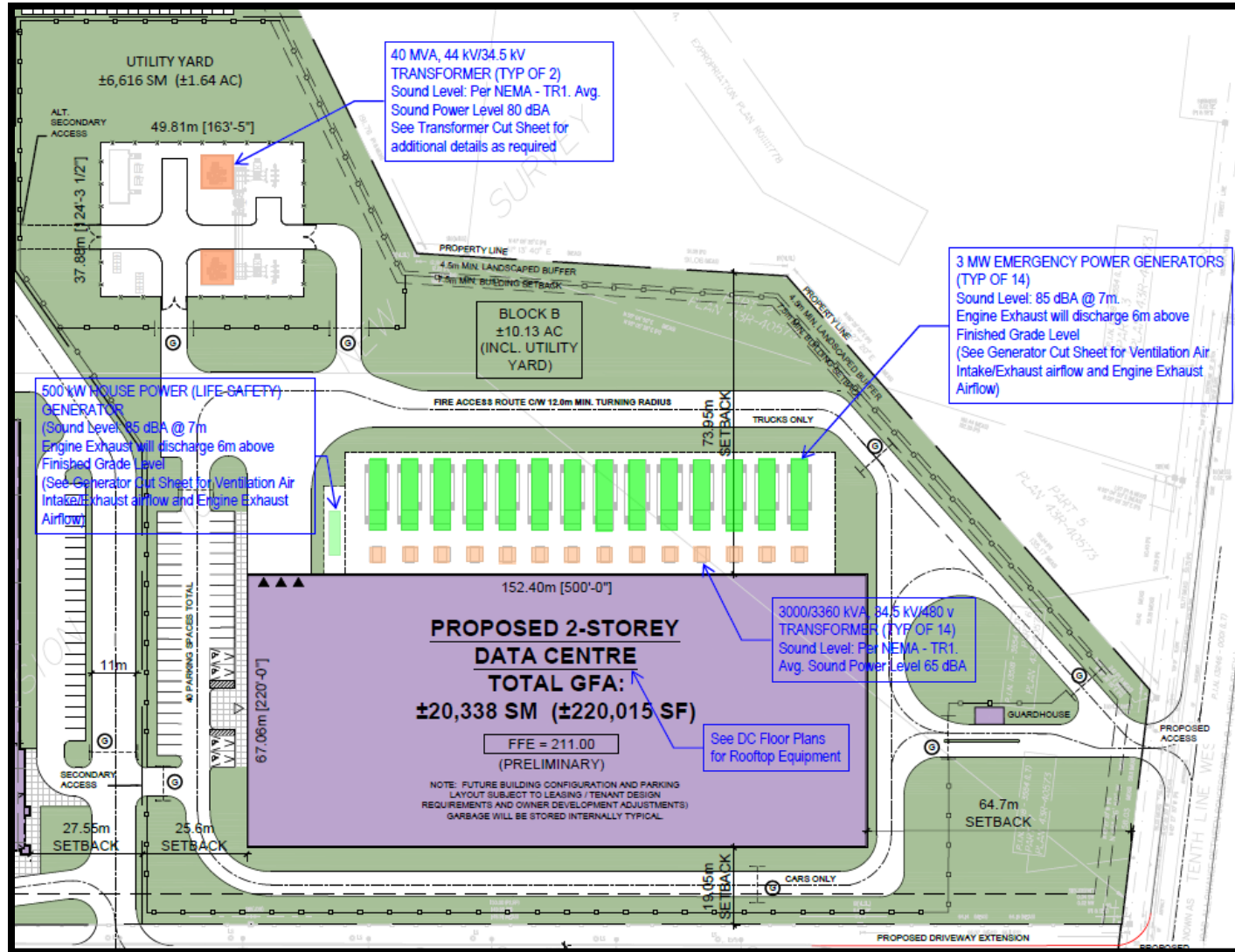
BICYCLE PARKING REQUIREMENTS (0225-2007 Part 3 Table 3.1.6.6.)		
	PROPOSED	REQUIRED
BICYCLE PARKING SPACES		
INDUSTRIAL BUILDING DC4	13	13
INDUSTRIAL BUILDING DC5	15	15
DATA CENTRE	110	110
TOTAL NO. OF BICYCLE PARKING SPACES	139	139
MIN. BICYCLE PARKING SPACE DIMENSIONS		
	1.8m X 0.6m	
LOADING SPACE REQUIREMENTS (0225-2007 Part 3 Table 3.1.4.3.)		
	PROPOSED	REQUIRED
LOADING SPACES		
INDUSTRIAL BUILDING DC4	6	6
INDUSTRIAL BUILDING DC5	6	6
DATA CENTRE	27	27
TOTAL NO. OF LOADING SPACES	39	39
MIN. LOADING SPACE DIMENSIONS		
	3.5m X 9.0m	

APPENDIX “B”

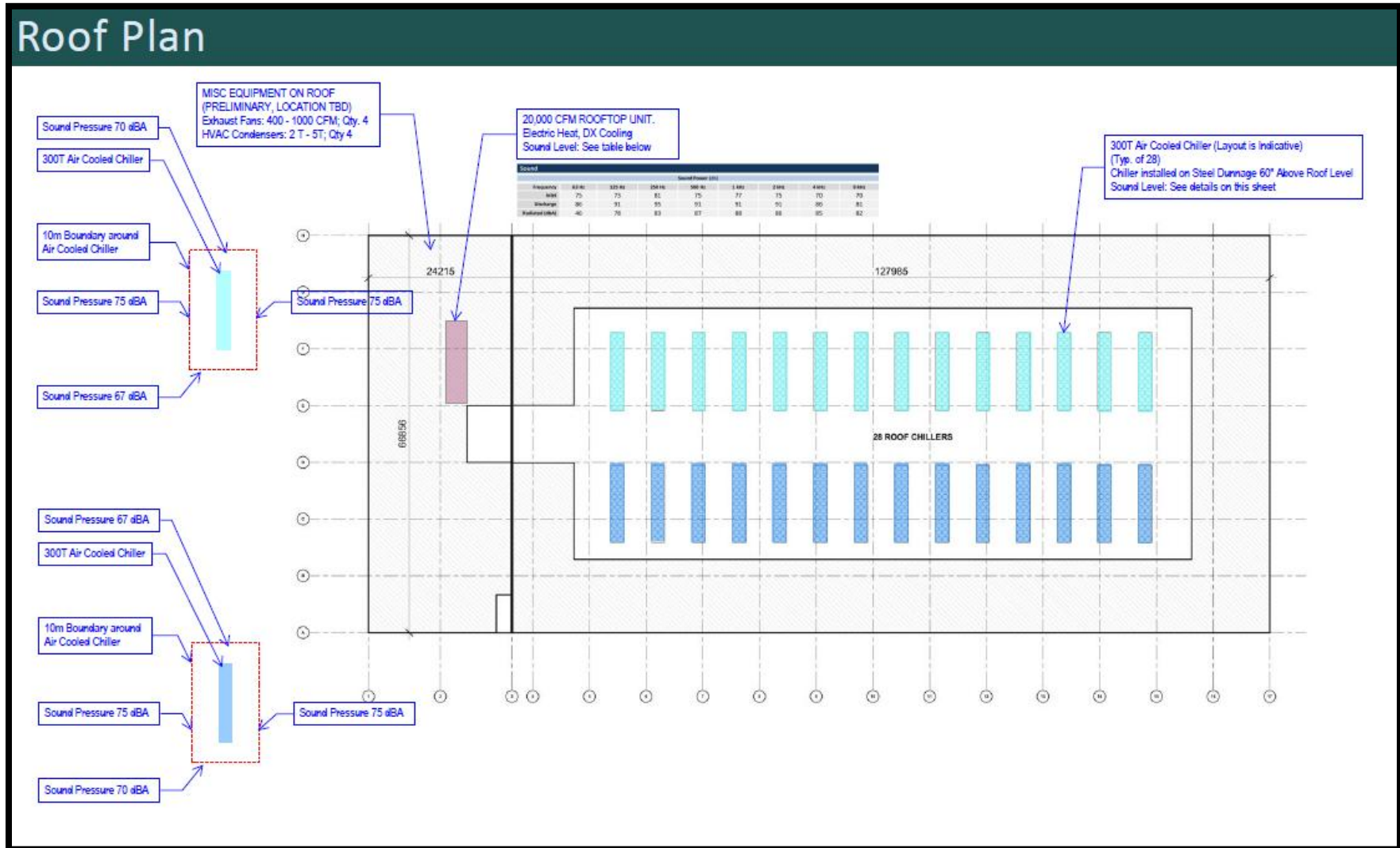
AREA OVERVIEW WITH OVERLAY



DATA CENTRE STATIONARY SOURCE LOCATIONS



DATA CENTRE ROOF PLAN



EMERGENCY POWER GENERATORS

DATA CENTRE						
Source ID	Source Description	R1 - 7755 Tenth Line West - CHURCH		R1 - 7564 Tenth Line West - HERITAGE HOME		
		Distance (m)	Leq Level (dBA)	Distance (m)	Leq Level (dBA)	
			1 st Floor 1.5M		1 st Floor 1.5M	2 nd Floor 5.5M
Gen #1	Emergency Generator	175	23.9	93	30.2	34.4
Gen #2	Emergency Generator	184	23.4	94	30.1	34.3
Gen #3	Emergency Generator	191	23.1	95	30.0	34.2
Gen #4	Emergency Generator	199	22.7	96	29.9	34.1
Gen #5	Emergency Generator	207	22.3	98	29.7	34.0
Gen #6	Emergency Generator	214	22.0	101	29.4	33.7
Gen #7	Emergency Generator	221	21.7	104	29.1	33.4
Gen #8	Emergency Generator	228	21.4	108	28.7	33.1
Gen #9	Emergency Generator	237	21.0	112	28.3	32.8
Gen #10	Emergency Generator	243	20.8	117	27.9	32.4
Gen #11	Emergency Generator	251	20.5	121	27.6	32.1
Gen #12	Emergency Generator	258	20.2	127	27.1	31.6
Gen #13	Emergency Generator	267	19.9	131	26.8	31.4
Gen #14	Emergency Generator	273	19.7	138	26.2	30.9
Gen #15	House Power	285	19.3	153	25.2	30.0
TOTAL			33.4		40.4	44.8

TRANSFORMERS

DATA CENTRE						
Source ID	Source Description	R1 - 7755 Tenth Line West - CHURCH		R1 - 7564 Tenth Line West - HERITAGE HOME		
		Distance (m)	Leq Level (dBA)	Distance (m)	Leq Level (dBA)	
			1 st Floor 1.5M		1 st Floor 1.5M	2 nd Floor 5.5M
Trans #1	Transformer	190	1.9	111	7.3	11.7
Trans #2	Transformer	197	1.6	112	7.2	11.7
Trans #3	Transformer	204	1.3	113	7.1	11.6
Trans #4	Transformer	211	0.9	115	7.0	11.4
Trans #5	Transformer	218	0.6	116	6.9	11.3
Trans #6	Transformer	225	0.3	119	6.6	11.1
Trans #7	Transformer	232	0.0	121	6.4	11.0
Trans #8	Transformer	240	-0.3	124	6.2	10.7
Trans #9	Transformer	247	-0.6	127	5.9	10.5
Trans #10	Transformer	254	-0.8	132	5.5	10.1
Trans #11	Transformer	262	-1.1	135	5.3	9.9
Trans #12	Transformer	269	-1.4	141	4.9	9.5
Trans #13	Transformer	276	-1.6	145	4.6	9.3
Trans #14	Transformer	283	-1.9	150	4.3	9.0
TOTAL			11.5		17.7	22.2

TRANSFORMERS – UTILITY YARD

DATA CENTRE						
Source ID	Source Description	R1 - 7755 Tenth Line West - CHURCH		R1 - 7564 Tenth Line West - HERITAGE HOME		
		Distance (m)	Leq Level (dBA)	Distance (m)	Leq Level (dBA)	
			1 st Floor 1.5M		1 st Floor 1.5M	2 nd Floor 5.5M
Trans #15	Transformer Utility Yard	297	13.9	130	21.8	26.4
Trans #16	Transformer Utility Yard	297	13.9	137	21.3	26.0
TOTAL			16.9		24.6	29.2

DATA CENTRE - ROOFTOP UNITS

DATA CENTRE						
Source ID	Source Description	R1 - 7755 Tenth Line West - CHURCH		R1 - 7564 Tenth Line West - HERITAGE HOME		
		Distance (m)	Leq Level (dBA)	Distance (m)	Leq Level (dBA)	
			1 st Floor 1.5M		1 st Floor 1.5M	2 nd Floor 5.5M
#1	Rooftop Chiller	200	22.6	144	15.8	20.5
#2	Rooftop Chiller	207	22.3	145	15.7	20.4
#3	Rooftop Chiller	212	22.1	146	15.7	20.4
#4	Rooftop Chiller	218	21.8	147	15.6	20.3
#5	Rooftop Chiller	223	21.6	148	15.5	20.3
#6	Rooftop Chiller	229	21.4	149	15.5	20.2
#7	Rooftop Chiller	235	21.1	152	15.3	20.0
#8	Rooftop Chiller	241	20.9	154	15.2	19.9
#9	Rooftop Chiller	247	20.6	156	15.0	19.8
#10	Rooftop Chiller	253	20.4	159	14.8	19.6
#11	Rooftop Chiller	259	20.2	162	14.7	19.4
#12	Rooftop Chiller	265	20.0	165	14.5	19.3
#13	Rooftop Chiller	271	19.8	168	14.3	19.1
#14	Rooftop Chiller	277	19.6	172	14.1	18.9
#15	Rooftop Chiller	213	22.0	159	14.8	19.6
#16	Rooftop Chiller	218	21.8	159	14.8	19.6
#17	Rooftop Chiller	223	21.6	160	14.8	19.5
#18	Rooftop Chiller	229	21.4	161	14.7	19.5
#19	Rooftop Chiller	234	21.2	162	14.7	19.4
#20	Rooftop Chiller	240	20.9	164	14.5	19.3
#21	Rooftop Chiller	245	20.7	166	14.4	19.2
#22	Rooftop Chiller	251	20.5	167	14.4	19.2
#23	Rooftop Chiller	257	20.3	169	14.3	19.1
#24	Rooftop Chiller	263	20.1	171	14.1	18.9
#25	Rooftop Chiller	269	19.8	174	14	18.8
#26	Rooftop Chiller	275	19.6	177	13.8	18.6
#27	Rooftop Chiller	280	19.5	180	13.7	18.5
#28	Rooftop Chiller	285	19.3	183	13.5	18.3
#29	Rooftop HVAC	307	29.2	184	34	35.7
#1	Exhaust Fan	304	3.7	175	8.9	13.7
#2	Exhaust Fan	304	3.7	175	8.9	13.7
#3	Exhaust Fan	304	3.7	175	8.9	13.7
#4	Exhaust Fan	304	3.7	175	8.9	13.7
#1	HVAC Condenser	304	3.7	175	8.9	13.7
#2	HVAC Condenser	304	3.7	175	8.9	13.7
#3	HVAC Condenser	304	3.7	175	8.9	13.7
#4	HVAC Condenser	304	3.7	175	8.9	13.7
TOTAL			36.3		35.3	38.1

STATIONARY NOISE SOURCES COMBINED

DATA CENTRE						
Source ID	Source Description	R1 - 7755 Tenth Line West - CHURCH		R1 - 7564 Tenth Line West - HERITAGE HOME		
		Distance (m)	Leq Level (dBA)	Distance (m)	Leq Level (dBA)	
			1 st Floor 1.5M		1 st Floor 1.5M	2 nd Floor 5.5M
	TRANSFORMER TOTAL		11.5		17.7	22.2
	UTILITY TRANSFORMER TOTAL		16.9		24.6	29.2
	ROOFTOP UNITS TOTAL		36.3		35.3	38.1
	GENERATOR #1 TOTAL		23.9		30.2	34.4
	COMBINED TOTAL		36.6		36.8	40.1