

## 2077 & 2105 ROYAL WINDSOR DRIVE MISSISSAUGA, ONTARIO

### NOISE AND VIBRATION IMPACT STUDY

RWDI #2205822

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## VERSION HISTORY

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1	October 3, 2022	Draft	Lorenzo Carboni	Slavi Grozev
2	November 29, 2022	Final	Lorenzo Carboni	Slavi Grozev



## EXECUTIVE SUMMARY

RWDI was retained to prepare a Noise and Vibration Impact Study (NVIS) for the proposed 2077 & 2105 Royal Windsor Drive development located in Mississauga, Ontario. The proposed development site is located to the north of Royal Windsor Drive and to the west of Southdown Road, adjacent to the Clarkson GO Station. This assessment was completed to support a joint Official Plan Amendment (OPA) and Zoning By-Law Amendment (ZBA) submission as required by the City of Mississauga.

The following noise control measures are recommended for the proposed development:

1. Installation of central air-conditioning so that all suites' windows can remain closed.
2. The inclusion of noise warning clauses related to:
  - a. Transportation sound levels at the building façade and in the outdoor amenity areas
  - b. Proximity to railway line
3. Minimum sound isolation performance:
  - a. Suite bedroom window glazing with minimum sound isolation performance of STC-31 West and East Block podium. At other facades the Ontario Building Code requirements will exhibit sufficient noise reduction to meet the interior sound level criteria.
4. Construction of perimeter noise barriers along the outdoor amenity areas if feasible, with the applicable warning clause.

Due to the setback of the development from the rail corridor there is no concern for vibration from the rail traffic.

The potential noise impact from stationary sources of sound were evaluated. Based on the noise modeling results and setback distances, the land use compatibility of the proposed development with respect to the nearby industrial or commercial land-uses is considered acceptable from the noise impact perspective.

At this stage in design the impact of the development on itself and its surroundings could not be quantitatively assessed. However, the impact on both the building itself and its surroundings is expected to be feasible to meet the applicable criteria. We recommend that the building design is evaluated prior during detailed design to ensure that the acoustical design is adequately implemented in order to meet the applicable criteria.

Based on the results of the analysis including implementation of the recommendations included with this assessment, the proposed development is predicted to meet the applicable sound and vibration criteria.



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## 1 INTRODUCTION

RWDI was retained to prepare a Noise and Vibration Impact Study (NVIS) for the proposed 2077 & 2105 Royal Windsor Drive development located in Mississauga, Ontario. The proposed development site is located to the north of Royal Windsor Drive and to the west of Southdown Road, adjacent to the Clarkson GO Station.

The proposed development aims to revitalize the site with a complete mixed-use community including the provision of a range of housing forms, as well as an improved public realm providing pedestrian access to the adjacent proposed public park and Clarkson GO Rail Station. The context site plan is shown in **Figure 1**. Drawings are included in **Appendix E**.

The site is exposed to noise from road traffic on, Southdown Road to the east and Royal Windsor Drive to the south. Additionally, the site is exposed to noise from rail traffic on: the Metrolinx GO corridor and CN freight movements along the same corridor. Additionally, the small CN rail yard located approximately 400 meters to the north is included in the assessment.

Due to the setback of the development from the rail corridor there is no concern for vibration from the rail traffic.

A screening level assessment of nearby industrial and commercial facilities was conducted. Conservative assumptions for potential noise emissions from Class I facilities within 20-meters from the development property line were included in the stationary source assessment. No Class II or Class III facilities were identified within the potential 300-meter or 1000-meter zone of influence, respectively.

This assessment was completed to support a joint Official Plan Amendment (OPA) and Zoning By-Law Amendment (ZBA) submission as required by the City of Mississauga. This assessment was based on design drawings dated August 11, 2022, and site statistics dated September 13, 2022

## 2 APPLICABLE CRITERIA

Applicable criteria for transportation noise sources (road and rail), stationary noise sources and rail vibration are adopted from the Ontario Ministry of the Environment, Conservation and Parks (MECP) NPC-300 Environmental Noise Guideline (MOE, 2013), with a summary of the applicable criteria included with **Appendix A**. The Region of Peel General Guidelines for the Preparation of Acoustical Reports in the Region of Peel (Peel, 2012), were also utilized as necessary.

The proposed development site would be characterized as a "Class 1 Area", which is defined according to NPC-300 as an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum."



## 3 IMPACT OF THE ENVIRONMENT ON THE PROPOSED DEVELOPMENT

### 3.1 Transportation Source Assessment

#### 3.1.1 Road Traffic Volume Data

The ultimate capacity traffic volumes and breakdowns were obtained from the City of Mississauga. A summary of the traffic data used is included in **Table 1** below with more detailed information included in **Appendix D**.

**Table 1: Road Traffic Volumes**

Roadway	Ultimate Traffic Volumes (UADT)	% Day/Night	Speed Limit (km/hr)	% Trucks
Royal Windsor Drive	38,500	90% / 10%	60	8
Southdown Road	44,200	90% / 10%	60	11.5

#### 3.1.2 Rail Traffic Volume Data

Future GO transit rail traffic through Clarkson GO station was obtained from Metrolinx. Specific freight rail volumes were not provided by CN. As such, typical volumes based on line type (e.g. principal main line, secondary line) have been assumed as a basis for the analysis.

The data used for the analysis is summarized in **Table 2**, with details of the data used included in **Appendix D**.

**Table 2: Rail Volumes and Configuration**

Train Type	Daytime	Nighttime	Type of Locomotive	No of Locomotives	No of Cars	Speed (km/h)
GO Lakeshore West <sup>1</sup>	161	29	Diesel	1	6	153
	53	12	Diesel	2	12	153
CN Freight <sup>2</sup>	8	4	Diesel	3	75	80
CN Yard <sup>3</sup>	7	3	Diesel	1	25	24

Note(s):

1. Modeling includes 3 minutes of idling at the station per locomotive.
2. Assumed secondary main line.
3. Assumed one movement per rail line each daytime, one movement per two rail lines each nighttime.



### 3.1.3 Representative Receptors

The selection of receptors affected by transportation noise sources was based on the drawings reviewed for this assessment. Using the “building evaluation” feature of Cadna/A, each façade of the residential buildings was assessed.

Outdoor Living Areas (OLAs) would include outdoor areas intended and designed for the quiet enjoyment of the outdoor environment and which are readily accessible from the building. OLAs may include any common outdoor amenity spaces associated with a multi-unit residential development (e.g. courtyards, roof-top terraces), and/or private backyards and terraces with a minimum depth of 4m provided they are the only outdoor living area for the occupant. Daytime sound levels were assessed at the following identified OLAs:

- OLA\_W1: Rooftop amenity space on roof of west building commercial/retail space.
- OLA\_W2: Rooftop amenity space on west building podium.
- OLA\_E1: Rooftop amenity space on roof of east building commercial/retail space.
- OLA\_E2: Rooftop amenity space on east building podium.

The OLAs are indicated in **Figure 2**.

### 3.1.4 Transportation Source Assessment - Analysis and Results

Sound levels due to the adjacent transportation (road and rail) sources were predicted using the RLS-90 standard (RLS,1990), and FTA method (FTA, 2018) as implemented in the Cadna/A software package.

To assess the impact of transportation noise on suites, the maximum sound level on each façade was determined with the results summarized in **Table 3**. The recommendation presented are broad and indented to assess the feasibility of the development with respect to noise, a more granular assessment for each façade can be performed later in the design phase, such as at site plan approval.

**Table 3: Predicted Ground Transportation Sound Levels at Façades**

Building	Section	Road		Rail		Road + Rail		Worst-case Façade	Notes
		Day L <sub>EQ</sub> , 16hr	Night L <sub>EQ</sub> , 8hr	Day L <sub>EQ</sub> , 16hr	Night L <sub>EQ</sub> , 8hr	Day L <sub>EQ</sub> , 16hr	Night L <sub>EQ</sub> , 8hr		
East Block	Podium	71	64	59	57	71	64	South	1
	North Tower	67	61	60	57	68	62	East	1
	South Tower	70	63	55	52	70	63	South	1
West Block	Podium	71	64	59	57	71	64	South	1
	North Tower	63	56	59	57	64	59	East	1
	South Tower	69	63	56	54	69	63	South	1

Note(s):

1. The acoustical performance of building components must be specified to meet the indoor sound level criteria. Installation of air conditioning to allow for windows and doors to remain closed, warning clause “Type D”. Refer to **Appendix C** for guidance regarding air-conditioning as a noise mitigation measure.



To assess the impact of transportation noise on the qualifying OLAs for the development, predicted sound level results are summarized in **Table 4**.

**Table 4: Predicted Ground Transportation Sound Levels in Outdoor Living Areas**

Receptor	Description	Daytime $L_{EQ}$ , 16hr	Notes
<b>OLA_W1</b>	Rooftop amenity space on roof of west building commercial/retail space.	56 dBA	2
<b>OLA_W2</b>	Rooftop amenity space on west building podium.	54 dBA	1
<b>OLA_E1</b>	Rooftop amenity space on roof of east building commercial/retail space.	60 dBA	2
<b>OLA_E2</b>	Rooftop amenity space on east building podium.	58 dBA	2

Note(s):

1. The predicted sound level meets the NPC-300 criterion for OLAs. Noise control measures are not required.
2. For OLA sound levels >55 dBA and ≤60 dBA, noise controls may be applied to meet the 55 dBA criterion. If noise control measures are not provided, a warning clause "Type A" is recommended. Noise barrier recommendations are provided in Section 3.3.1.3.

## 3.2 Stationary Source Assessment

Stationary sources could be grouped into two categories: Those that have a permit with the Ontario Ministry of the Environment, Conservation and Parks (MECP) through an Environmental Compliance Approval (ECA) or Environmental Activity and Sector Registry (EASR); and those that are exempt from ECA or EASR permit requirements.

In the case where a stationary source is included in an ECA or EASR permit, and would be put in a position where it is no longer in compliance with the applicable sound level criteria due to the encroachment of the proposed new development, source specific mitigation and/or formal classification of the proposed development lands as a "Class 4 Area" (refer to C.4.4.2 "Class 4 Area" in NPC-300) would be required. In this case, coordination and agreements between the stationary source owner, proposed new development owner, the land-use planning authority and potentially the MECP would be needed.

In the case where a stationary source is exempt from ECA or EASR permit requirements, the noise provisions of the applicable Municipal Code and guidance from NPC-300 would be applicable. In this case, mitigation of sound levels due to stationary sources would be from a due diligence perspective to avoid nuisance complaints from future occupants of the proposed new development. Mitigation could be in the form of mitigation at the source (with agreement from the stationary source owner) and/or mitigation at the receptor through site and building element design (building orientation, acoustical barriers, façade sound insulation design).

### 3.2.1 Land-Use Compatibility Review (D-6 Guideline Assessment)

The MECP Guideline D-6 (MOE, 1995) was used as a tool to classify the identified industries and assess their potential influence on the proposed development. The classifications and setback guidelines are summarized in **Appendix A**.



### 3.2.1.1 Class III Industries

No facilities within the 1000m radius of the proposed development were identified as Class III.

### 3.2.1.2 Class II Industries

There are two industries within the 1000 m area surrounding the proposed development that have been classified as Class II, Stackpole International Powder Metal (ECA# 7195-A7WSR5) and Stackpole Powertrain International (ECA# 4685-AVKMMY). However, none of the Class II industries are within the potential influence area of 300 m from the proposed development. Furthermore, there are existing residences north of both of these facilities that are closer than the proposed development where compliance has been demonstrated through secondary noise screening. As such, these are expected to comply at the proposed development, and the development itself will not encroach on the permits.

### 3.2.1.3 Class I Industries

There are several industries within the 300 m area surrounding the proposed development that have been classified as Class I. The following are beyond the 70 m potential influence area;

- Musket Transport Ltd, a logistics provider with no ECA or EASR permit;
- Caruso's Service Centre Inc, an auto shop with no ECA or EASR permit; and
- Royal Windsor, an auto shop with no ECA or EASR permit.

There were four facilities identified as Class I within 70 m potential influence area of the proposed development. These industries are summarized in **Table 5** below.

**Table 5: Industries within the minimum recommended separation distance of the proposed development**

Name	Address	Type of Operation	Industry Class	ECA or EASR Registration #
<b>Way-Side Auto Service</b>	2133 Royal Windsor Dr, Mississauga, ON L5J 1K5	Auto Shop	Class I	N/A
<b>Mississauga BMW Repair</b>	2133 Royal Windsor Dr, Mississauga, ON L5J 1K5	Auto Shop	Class I	N/A
<b>M &amp; M Auto</b>	2133 Royal Windsor Dr, Mississauga, ON L5J 1K5	Auto Shop	Class I	N/A
<b>Audi Repair Mississauga - Lorne Park Car Centre</b>	2133 Royal Windsor Dr, Mississauga, ON L5J 1K5	Auto Shop	Class I	N/A

The four facilities described in **Table 5** currently do not have an environmental permit (ECA or EASR), and therefore the conversion of the lands is not anticipated impact any environmental approvals. Potential noise impacts were assessed as outlined in the following section.



## 3.2.2 Stationary Source Modeling

RWDI conducted a screening level land-use compatibility assessment based on the guidance of the Ministry of the Environment D-6 Guideline (MOE, 1995a). Stationary sources of noise surrounding the proposed development were identified using a combination publicly available aerial, street-level imagery, business listing and The Ministry of the Environments Access Environment database. Classes were assessed using the noise impact perspective, as an air quality review was not considered for this study.

The results of the D-6 assessment from a noise impact perspective are summarized in **Section 3.2.1**. The results of the D-6 assessment indicate that the nearby auto shops should be included in the assessment as due perspective, given they are not operating under permits issued by the MECP. Additionally, rooftop top HVAC equipment associated with the adjacent buildings are included in the assessment.

### 3.2.2.1 Representative Receptors

The representative receptor locations were assessed to evaluate the potential stationary source noise impact. Using the “building evaluation” feature of Cadna/A, each façade of the buildings was assessed. The outdoor points of reception for this assessment are selected to coincide with the OLAs.

### 3.2.2.2 Assumed Sources and Sound Power Levels

Proxy data on file at RWDI was used for the sound power levels of the HVAC units and auto shops included in the assessment. The assumed sound power levels are presented in **Table 6**. The locations of assessed stationary sources are shown in **Figure 3**. Auto shop proxy data includes average simultaneous measurements of various activities with the bay doors open at comparable businesses. These include use of pneumatic tools, air compressors and hammers. Closing the bay doors will reduce the sound levels.

**Table 6: Stationary Source Sound Power Level Assumptions**

Source	Proxy Data / Calculation	Sound Power Level (dBA)	Duty Cycle	
			Daytime and Evening (07:00h – 23:00h)	Nighttime (23:00h – 07:00h)
HVAC_1Fan	Proxy Data	82	Continuous	30min/hour
AutoShop	Proxy Data	90	30min/hour	Off Duty

The assumed sound power level values and duty-cycles for the stationary sources are based on reasonable assumptions for the source type. Continuous operation of the HVAC units is assumed during the daytime and a 50% duty cycle given some business do not operate into the nighttime hours. Partial daytime operation of the power equipment at the auto shops, given the power tools are generally not run continuously and the facilities listed business hours do not include nighttime hours.

### 3.2.2.3 Analysis and Results

Stationary source noise modelling was carried out using the Cadna/A software package, a commercially available implementation of the ISO 9613 (ISO, 1994 and ISO, 1996) algorithms. The predicted sound levels are assessed against the Class 1 limits (refer to **Appendix A**).



The predicted sound levels during the worst-case 1-hour from existing stationary sources are presented in **Table 7**.

**Table 7: Predicted Stationary Source Sound Levels at Facades and Outdoor Points of Reception**

Building	Section	Stationary Source $L_{EQ}$ , 1hr		Ambient Road Traffic $L_{EQ}$ , 1hr	
		Daytime-Evening 0700-2300h	Nighttime <sup>1</sup> 2300-0700h	Daytime-Evening 0700-2300h	Nighttime <sup>1</sup> 2300-0700h
East Block	Podium	49	46	65	54
	North Tower	46	43	60	53
	South Tower	48	45	57	54
	OLA_E1	49	-	58	-
	OLA_E2	40	-	57	-
West Block	Podium	48	21	57	45
	North Tower	46	38	57	48
	South Tower	46	33	60	45 <sup>2</sup>
	OLA_W1	49	-	53	-
	OLA_W2	40	-	54	-

Note(s):

1. Outdoor areas are not assessed during the nighttime period.
2. NPC-300 Class 1 default criteria is applicable

As shown in **Table 7**, the nighttime continuous sound levels at the sound levels at the façade of the East Block due to existing stationary sources may exceed the applicable default Class 1 sound level criteria, due to the high traffic in this area, elevated sound level criteria's are calculated for each portion of the façade, these elevated criteria are met at all portions of the facade.

### 3.3 Recommendations

Based on the noise and vibration impact assessment results, the following recommendations were determined for the project. Recommendations are provided for both transportation sources and stationary sources.

#### 3.3.1 Transportation Sources

The following recommendations are provided to address transportation sources.

##### 3.3.1.1 Building Façade Components

Due to the elevated transportation sound levels in the area, acoustical design of the façade components including spandrel, window glazing, and exterior doors, are recommended to be specified for the proposed development.

To assess the development's feasibility, preliminary window glazing, and exterior balcony door sound isolation requirements were determined. These were based on following assumptions:



- Typical residential living room:
  - Glazing 60% of façade, Door: 20% of façade
  - 55% Façade to floor area Ratio
- Typical residential bedroom:
  - Glazing 80% of façade, Door: N/A
  - 81% Façade to floor area Ratio
- Acoustical character of rooms: High absorption finishes/furniture for bedrooms and intermediate absorption finishes/furniture for living rooms.

Based on the predicted plane of window sound levels and the assumptions listed above, recommendations for the minimum sound insulation ratings for the building components were determined using the National Research Council of Canada “BPN-56 method” (NRCC, 1985). The reported results are in terms of Sound Transmission Class (STC) ratings as summarized in **Table 8**.

**Table 8: Recommended Façade Component Minimum Sound Insulation Rating**

Building	Section	Window Glazing	Exterior Door <sup>1</sup>	Façade Wall <sup>1</sup>
<b>East Block</b>	Podium	STC-31	STC-30	STC-45
	North Tower	STC-30 <sup>1</sup>	STC-28	STC-45
	South Tower	STC-29 <sup>1</sup>	STC-28	STC-45
<b>West Block</b>	Podium	STC-31	STC-28	STC-45
	North Tower	STC-29 <sup>1</sup>	STC-28	STC-45
	South Tower	STC-29 <sup>1</sup>	STC-28	STC-45

Note(s):

1. Building envelope assemblies meeting the minimum Ontario Building Code requirements will exhibit sufficient noise reduction to meet the interior sound level criteria.

The maximum requirement of STC-31 and STC-30 for the window glazing and exterior door, respectively, is considered feasible as this can be achieved by various configurations of insulated glazing units. A more granular assessment for each façade can be performed later in the design phase, such as at site plan approval, to refine the areas where upgraded façade components are required.

Taking into account the assumptions used as a basis to determine the glazing requirements, the applicable indoor transportation source sound level criteria are predicted to be achieved.

We recommend that the façade construction is reviewed during detailed design to ensure that the indoor sound level limits will be met, and that the window/door supplier is requested to provide STC laboratory test reports as part of shop drawing submittal to confirm that the glazing/door components will meet the minimum STC requirements.

### 3.3.1.2 Ventilation Recommendations

Due to the transportation sound levels at the plane of the façade, central air conditioning is recommended for the proposed development to allow for windows and doors to remain closed as a noise mitigation measure. Further, prospective purchasers or tenants should be informed by a warning clause “Type D”.

### 3.3.1.3 Outdoor Living Areas

Due to exposure to transportation sources along Southdown Road to the east, Royal Windsor Drive to the south, and rail corridor to the north, sound levels in the OLAs are predicted to be elevated. The combined (rail and road) daytime average sound levels for the OLAs included in the assessment are in the range of 58 to 60 dBA. To reduce the transportation sound levels in OLAs to meet the applicable criteria, noise barriers are recommended.

The recommended geometry of the noise barriers are shown in **Figure 4**. The barrier heights are summarized in **Table 9**. General guidance with respect to noise barrier design is included with **Appendix C**.

**Table 9: Barrier Height Recommendations for Outdoor Living Areas**

Receptor	Description	Predicted OLA Sound Level	Barrier Height (m) to Meet Sound Level Criterion	
		Daytime $L_{EQ}$ , 16hr	≤ 55 dBA <sup>1</sup>	≤ 60 dBA
OLA_W1	Rooftop amenity space on roof of west building commercial/retail space.	56 dBA	1.5 m <sup>[2]</sup>	-
OLA_W2	Rooftop amenity space on west building podium.	54 dBA	-	-
OLA_E1	Rooftop amenity space on roof of east building commercial/retail space.	60 dBA	3.4 m <sup>[2]</sup>	-
OLA_E2	Rooftop amenity space on east building podium.	58dBA	1.2 & 1.2 m in parallel <sup>[2][3]</sup>	-

Note(s):

1. Refer to Figure 4 for barrier geometry to meet 55 dBA.
2. If noise control measures are not provided, a warning clause "Type A" is recommended.
3. See Figure 4 for barrier layout.

## 3.3.2 Stationary Sources

Based on the noise modeling results and setback distances, the proposed development is not anticipated to infringe on the compliance of any commercial or industrial operations with environmental noise permits (ECA or EASR), nor cause infractions against the local noise by-law (By-Law 0360-1979). As such, the land use compatibility of the proposed development with respect to the nearby industries is considered acceptable from the noise impact perspective.

No exceedances of the applicable stationary source criteria are expected at façade or outdoor points of reception.



### 3.3.3 Warning Clauses

The following warning clauses are recommended for the proposed development:

1. NPC-300 Type A to address transportation sound levels in Outdoor Living Areas as applicable
2. NPC-300 Type D to address transportation sound levels at the plane of window
3. Proximity to Railway Line Warning Clause
4. NPC-300 Type E to address proximity to commercial facilities

Warning clauses are recommended to be included on all development agreements, offers of purchase and agreements of purchase and sale or lease. The wording of the recommended warning clauses is included with **Appendix B**.

## 4 IMPACT OF THE PROPOSED DEVELOPMENT ON ITS SURROUNDINGS AND ON ITSELF

On-site stationary sources for the development are expected to consist of HVAC related equipment in the roof-top mechanical penthouse as well as various exhaust fans. Further, consideration should be given to control airborne and structure-borne noise generated within the proposed development.

Within the development itself the main sources of noise that are likely to affect the uses of the building are the mechanical systems. The potential noise impact of the commercial component of the development is recommended to be reviewed during detailed design, to ensure the applicable criteria will be met.

Provided that best practices for the acoustical design of the building are followed, noise from building services equipment associated with the development are expected to be feasible to meet the applicable sound level criteria due to the nature (residential/mixed-use) of the proposed development.

We recommend that the potential noise impact of the proposed development is reviewed during detailed design to ensure the applicable sound level criteria will be achieved.

## 5 CONCLUSIONS

RWDI was retained to prepare a Noise and Vibration Impact Study (NVIS) for the proposed 2077 & 2105 Royal Windsor Drive development located in Mississauga, Ontario.

The following noise control measures are recommended for the proposed development:

1. Installation of central air-conditioning so that all suites' windows can remain closed.
2. The inclusion of noise warning clauses related to:
  - a. Transportation sound levels at the building façade and in the outdoor amenity areas
  - b. Proximity to railway line
3. Minimum sound isolation performance:



- a. Suite bedroom window glazing with minimum sound isolation performance of STC-31 West and East Block podium. At other facades the Ontario Building Code requirements will exhibit sufficient noise reduction to meet the interior sound level criteria.
4. Construction of perimeter noise barriers along the outdoor amenity areas if feasible, with the applicable warning clause.

The potential noise impact from stationary sources of sound were evaluated. Nighttime continuous sound levels at the sound levels at the façade of the East Block due to existing stationary sources may exceed the applicable Class 1 sound level criteria. All other areas are expected to meet the criteria. It is expected that façade component and ventilation requirements to address transportation noise will provide an acoustically comfortable interior space where stationary source noise exceeds the criteria.

At this stage in design the impact of the development on itself and its surroundings could not be quantitatively assessed. However, the impact on both the building itself and its surroundings is expected to be feasible to meet the applicable criteria. We recommend that the building design is evaluated prior to building permit to ensure that the acoustical design is adequately implemented in order to meet the applicable criteria.

Based on the results of the analysis including implementation of the recommendations included with this assessment, the proposed development is predicted to meet the applicable sound and vibration criteria.

## 6 REFERENCES

1. Ontario Ministry of the Environment (MOE), August 2013, Publication NPC-300, Environmental Noise Guideline Stationary and Transportation Sources – Approval and Planning (MOE, 2013).
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9. International Organization for Standardization (ISO), 1996, International Standard ISO 9613-2:1996, Acoustics – Attenuation of sound during propagation outdoors – Part 2: General method of calculation (ISO, 1996)
10. City of Mississauga, 1980, Noise Control By-Law 0360-1979.
11. Region of Peel, General Guidelines for the Preparation of Acoustical Reports in The Region of Peel (Peel, 2012)





## 7 STATEMENT OF LIMITATIONS

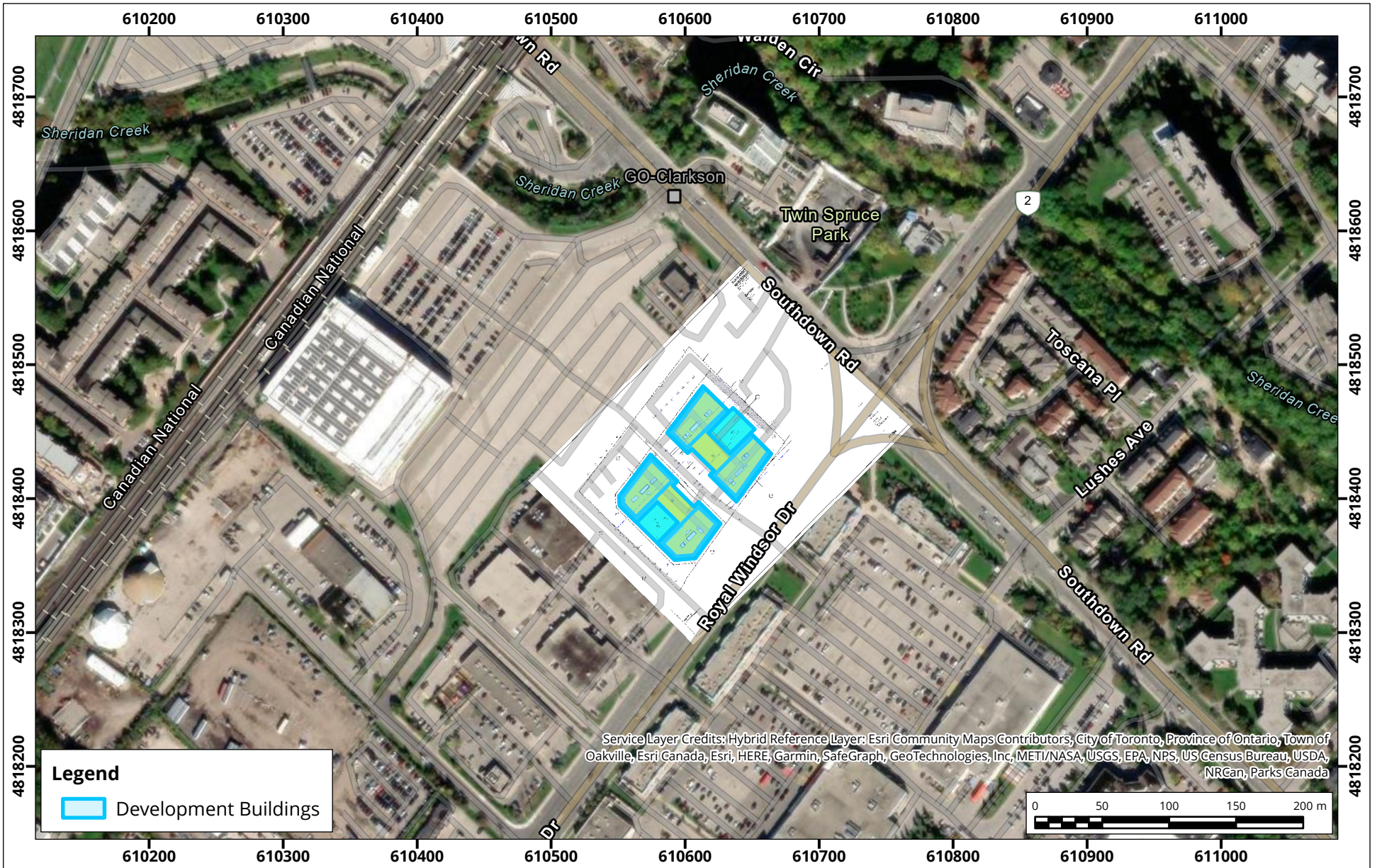
This report entitled “2077 & 2105 Royal Windsor Drive,” dated November 29, 2022 was prepared by Rowan Williams Davies & Irwin Inc. (“RWDI”) for Slate Asset Management (“Client”). The findings and conclusions presented in this report have been prepared for the Client and are specific to the project described herein (“Project”). The conclusions and recommendations contained in this report are based on the information available to RWDI when this report was prepared. Because the contents of this report may not reflect the final design of the Project or subsequent changes made after the date of this report, RWDI recommends that it be retained by Client during the final stages of the project to verify that the results and recommendations provided in this report have been correctly interpreted in the final design of the Project.

The conclusions and recommendations contained in this report have also been made for the specific purpose(s) set out herein. Should the Client or any other third party utilize the report and/or implement the conclusions and recommendations contained therein for any other purpose or project without the involvement of RWDI, the Client or such third party assumes any and all risk of any and all consequences arising from such use and RWDI accepts no responsibility for any liability, loss, or damage of any kind suffered by Client or any other third party arising therefrom.

Finally, it is imperative that the Client and/or any party relying on the conclusions and recommendations in this report carefully review the stated assumptions contained herein and to understand the different factors which may impact the conclusions and recommendations provided.

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# FIGURES



## Site Context Plan

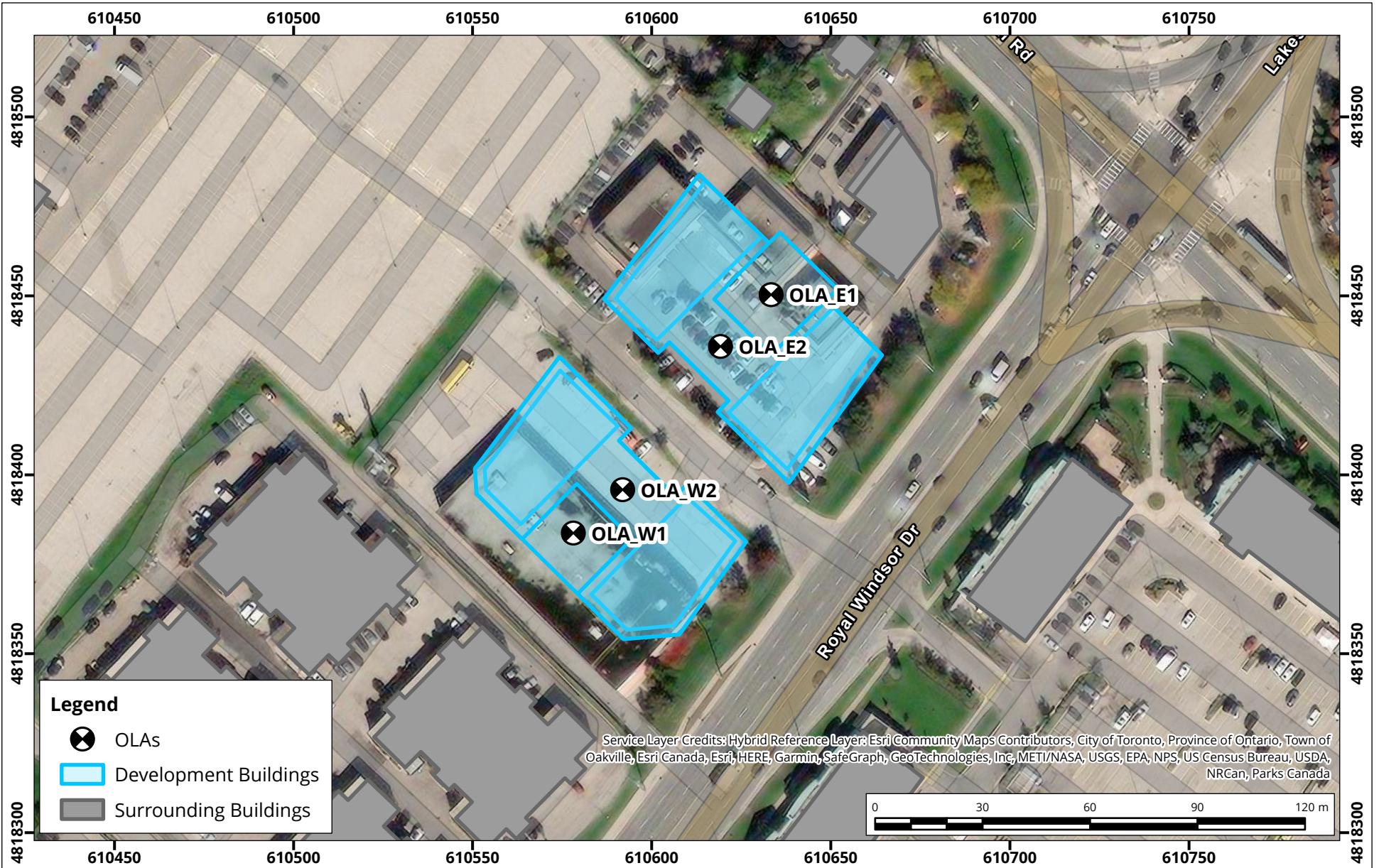
Map Projection: NAD 1983 UTM Zone 17N  
 2077 & 2105 Royal Windsor Drive - Mississauga, Ontario



True North	Drawn by: LRC	Figure: 1
	Approx. Scale: 1:4,000	
Project #: 2205822	Date Revised: Nov 22, 2022	



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## Outdoor Living Areas (OLAs) Locations Location of Common Outdoor Amenity Areas

Map Projection: NAD 1983 UTM Zone 17N  
2077 & 2105 Royal Windsor Drive - Mississauga, Ontario



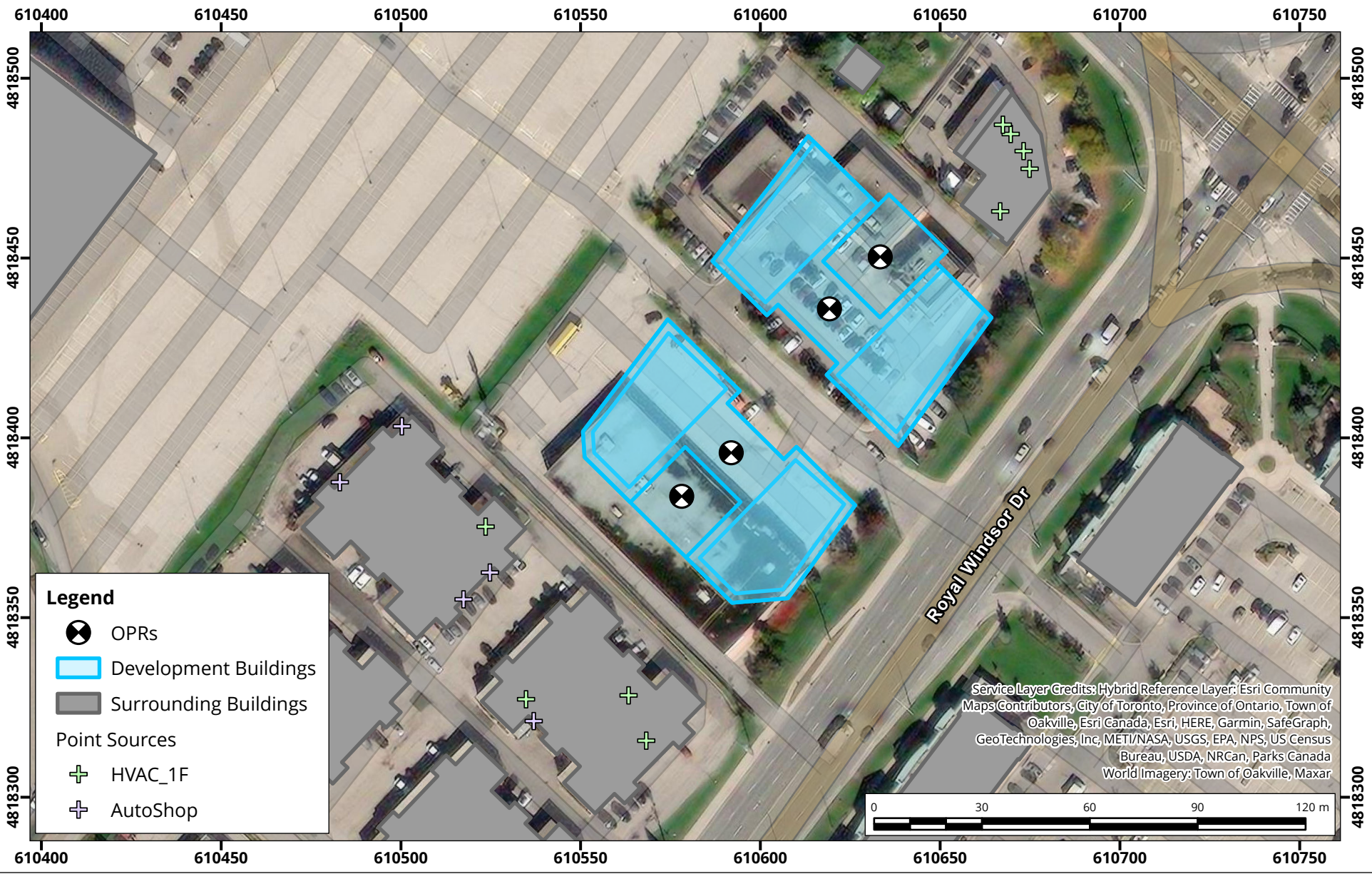
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Approx. Scale: 1:1,500

Date Revised: Nov 22, 2022



Project #: 2205822



# Stationary Sources

## Location of Stationary Sources in Relation to the Proposed Development

Map Projection: NAD 1983 UTM Zone 17N  
 2077 & 2105 Royal Windsor Drive - Mississauga, Ontario

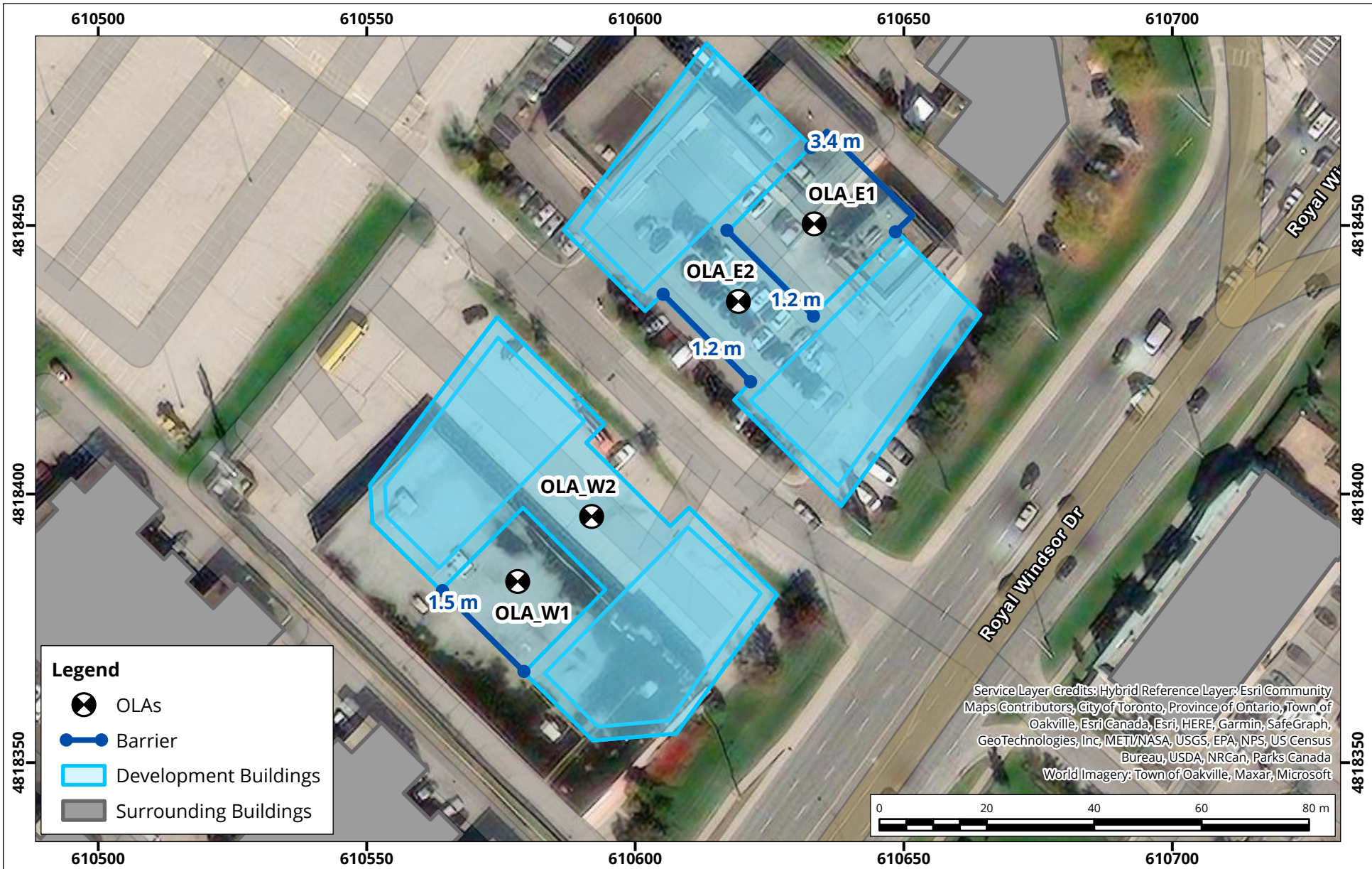


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Date Revised: Nov 22, 2022	



Project #: 2205822

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## Outdoor Living Areas Mitigation to 55 dBA Recommended Barrier Geometry and Height to meet 55 dBA

Map Projection: NAD 1983 UTM Zone 17N  
2077 & 2105 Royal Windsor Drive - Mississauga, Ontario



Drawn by: LRC | Figure: 4

Approx. Scale: 1:1,000

Date Revised: Nov 28, 2022



Project #: 2205822

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# APPENDIX A

## APPENDIX A: CRITERIA

Warning clauses are recommended to be included on all development agreements, offers of purchase and agreements of purchase and sale or lease. Warning clauses may be used individually or in combination.

The following warning clauses are recommended based on the applicable guidelines; however, wording may be modified/customized during consultation with the planning authority to best suit the proposed development:

### A.1 Transportation Sources

Guidance from the Ontario Ministry of the Environment, Conservation and Parks (MECP) NPC-300 Environmental Noise Guideline was used to assess environmental noise generated by transportation-related sources. There are three aspects to consider, which include the following:

- i. Transportation source sound levels in indoor living areas (living rooms and sleeping quarters), which determines building façade elements (windows, exterior walls, doors) sound insulation design recommendations.
- ii. Transportation source sound levels at the plane of the window, which determines air-conditioning and ventilation system recommendations and associated warning clauses which inform the future occupants that windows and doors must be closed in order to meet the indoor sound level criteria.
- iii. Transportation source sound levels in Outdoor Living Areas (OLAs), which determines OLA noise mitigation and related warning clause recommendations.

#### A.1.1 Road and Rail

##### A.1.1.1 Indoor Sound Level Criteria

For assessing sound originating from transportation sources, NPC-300 defines sound level criteria as summarized in **Table 1** for indoor areas of sensitive uses. The specified values are maximum sound levels and apply to the indicated indoor spaces with the windows and doors closed.

**Table 1: Indoor Sound Level Criteria for Road and Rail Sources**

Type of Space	Source	Sound Level Criteria (Indoors)	
		Daytime $L_{eq,16-hr}$ 07:00h – 23:00h	Nighttime $L_{eq,8-hr}$ 23:00h – 07:00h
<b>Living Quarters</b> Examples: Living, dining and den areas of residences, hospitals, nursing homes, schools and daycare centres	Road	45 dBA	
	Rail	40 dBA	
<b>Sleeping Quarters</b>	Road	45 dBA	40 dBA
	Rail	40 dBA	35 dBA



NPC-300 also provides guidelines for acceptable indoor sound levels that are extended to land uses and developments which are not normally considered noise sensitive. The guideline sound level criteria presented in **Table 2** are provided to inform good-practice design objectives.

**Table 2: Supplementary Indoor Sound Level Criteria for Road and Rail Sources**

Type of Space	Source	Sound Level Criteria (Indoors)	
		Daytime $L_{eq,16-hr}$ 07:00h – 23:00h	Nighttime $L_{eq,8-hr}$ 23:00h – 07:00h
General offices, reception areas, retail stores, etc.	Road	50 dBA	-
	Rail	45 dBA	-
Theatres, places of worship, libraries, individual or semi-private offices, conference rooms, reading rooms, etc.	Road	45 dBA	-
	Rail	40 dBA	-
Sleeping quarters of residences, hospitals, nursing/retirement homes, etc.	Road	-	40 dBA
	Rail	-	35 dBA
Sleeping quarters of hotels/motels	Road	-	45 dBA
	Rail	-	40 dBA

### A.1.1.2 Outdoor Living Areas (OLAs)

Outdoor Living Areas (OLAs) would include outdoor areas intended and designed for the quiet enjoyment of the outdoor environment and which are readily accessible from the building.

OLAs may include any common outdoor amenity spaces associated with a multi-unit residential development (e.g. courtyards, roof-top terraces), and/or private backyards and terraces with a minimum depth of 4m provided they are the only outdoor living area for the occupant. The sound level criteria for outdoor living areas is summarized in **Table 3**.

**Table 3: Sound Level Criteria – Outdoor Living Area**

Assessment Location	Sound Level Criteria (Outdoors)	
	Daytime $L_{eq,16-hr}$ 07:00h – 23:00h	Nighttime $L_{eq,8-hr}$ 23:00h – 07:00h
Outdoor Living Area (OLA) (Combined Road and Rail)	55 dBA	-

### A.1.1.3 Outdoor and Plane of Window Sound Levels

In addition to the sound level criteria, noise control measures and requirements for ventilation and warning clauses requirements are recommended for residential land-uses based on predicted transportation source sound levels incident in the plane of window at bedrooms and living/dining rooms, and/or at outdoor living areas. These recommendations are summarized in **Table 4** below.

**Table 4: Ventilation, Building Component, and Warning Clauses Recommendations for Road/Rail Sources**

Assessment Location	Transportation Sound Level (Outdoors)		Recommendations
	Daytime $L_{eq,16-hr}$ 07:00h – 23:00h	Nighttime $L_{eq,8-hr}$ 23:00h – 07:00h	
Plane of Window (Road)	> 65 dBA	> 60 dBA	Installation of air conditioning to allow windows to remained closed.  The sound insulation performance of building components must be specified and designed to meet the indoor sound level criteria.  Warning clause "Type D" is recommended.
	> 55 dBA	> 50 dBA	Applicable for low and medium density development: Forced-air ventilation system to allow for the future installation of air-conditioning. Warning clause "Type C" is recommended.  Applicable for high density development: Air conditioning to allow windows to remained closed. Warning clause "Type D" is recommended.
Plane of Window (Rail <sup>1,2</sup> )	> 60 dBA	> 55 dBA	The acoustical performance of building façade components should be specified such that the indoor sound level limits are predicted to be achieved.  Warning clause "Type D" is recommended.
	> 60 dBA ( $L_{eq,24hr}$ ) and < 100m from tracks		Exterior walls consisting of a brick veneer or masonry equivalent for the first row of dwellings.  Warning clause "Type D" is recommended.
OLAs (Combined Road and Rail <sup>3</sup> )	$\leq$ 60 dBA > 55 dBA	-	If sound levels are predicted to exceed 55 dBA, but are less than 60 dBA, noise controls may be applied to reduce the sound level to 55 dBA.  If noise control measures are not provided, a warning clause "Type A" is recommended.
	> 60 dBA	-	Noise controls (barriers) should be implemented to meet the 55 dBA criterion.  If mitigation is not feasible to meet the 55 dBA criterion for technical, economic or administrative reasons, an exceedance of 5 dB may be acceptable (to a maximum sound level of 60 dBA). In this case a warning clause "Type B" would be recommended.

**Notes:**

1. Whistle noise is included (if applicable) in the determination of the sound level at the plane of window.
2. Some railway companies (e.g. CN, CP) may require that the exterior walls include a brick veneer or masonry equivalent for the façade facing the railway line, regardless of the sound level.
3. Whistle noise is not included in the determination of the sound level at the OLA.

### A.1.1.4 Rail Layover Sites

NPC-300 provides a sound level limit for rail layover sites to be the higher of the background sound level or 55 dBA  $L_{eq,1-hr}$ , for any one-hour period.

## A.2 Stationary Sources

### A.2.1 NPC-300 Sound Level Criteria – Stationary Sources

Guidance from the MECP NPC-300 Environmental Noise Guideline is used to assess environmental noise generated by stationary sources, for example industrial and commercial facilities.

Noise from stationary sources is treated differently from transportation sources and requires sound levels be assessed for the predictable worst-case one-hour average sound level ( $L_{eq}$ ) for each period of the day. For assessing sound originating from stationary sources, NPC-300 defines sound level criteria for two types of Points of Reception (PORs): outdoor and plane of window.

The assessment criteria for all PORs is the higher of either the exclusion limit per NPC-300 or the minimum background sound level that occurs or is likely to occur at a POR. The applicable exclusion limit is determined based on the level of urbanization or “Class” of the area. The NPC-300 exclusion limits for continuously operating stationary sources are summarized in **Table 5**.

**Table 5:** NPC-300 Exclusion Limits – Continuous and Quasi-Steady Impulsive Stationary Sources ( $L_{Aeq-1hr}$ )

Time Period	Class 1 Area		Class 2 Area		Class 3 Area		Class 4 Area	
	Outdoor	Plane of Window	Outdoor	Plane of Window	Outdoor	Plane of Window	Outdoor	Plane of Window
<b>Daytime 0700-1900h</b>	50 dBA	50 dBA	50 dBA	50 dBA	45 dBA	45 dBA	55 dBA	60 dBA
<b>Evening 1900-2300h</b>	50 dBA	50 dBA	45 dBA	50 dBA	40 dBA	40 dBA	55 dBA	60 dBA
<b>Nighttime 2300-0700h</b>	--	45 dBA	--	45 dBA	--	40 dBA	--	55 dBA

**Notes:**

1. The applicable sound level criterion is the background sound level or the exclusion limit, whichever is higher.
2. Class 1, 2 and 3 sound level criteria apply to a window that is assumed to be open.
3. Class 4 area criteria apply to a window that is assumed closed. Class 4 area requires formal designation by the land-use planning authority.
4. Sound level criteria for emergency backup equipment (e.g. generators) operating in non-emergency situations such as testing or maintenance are 5 dB greater than the applicable sound level criteria for stationary sources.

For impulsive sound, other than quasi-steady impulsive sound, from a stationary source, the sound level criteria at a POR is expressed in terms of the Logarithmic Mean Impulse Sound Level ( $L_{LM}$ ), and is summarized in **Table 6**.

**Table 6:** NPC-300 Exclusion Limits – Impulsive Stationary Sources ( $L_{LM}$ )

Time Period	Number of Impulses in Period of One-Hour	Class 1 and 2 Areas		Class 3 Areas		Class 4 Areas	
		Outdoor	Plane of Window	Outdoor	Plane of Window	Outdoor	Plane of Window
Daytime (0700-2300h)	9 or more	50 dBAI	50 dBAI	45 dBAI	45 dBAI	55 dBAI	60 dBAI
Nighttime (2300-0700h)		-	45 dBAI	-	40 dBAI	-	55 dBAI
Daytime (0700-2300h)	7 to 8	55 dBAI	55 dBAI	50 dBAI	50 dBAI	60dBAI	65 dBAI
Nighttime (2300-0700h)		-	50 dBAI	-	45 dBAI	-	60 dBAI
Daytime (0700-2300h)	5 to 6	60 dBAI	60 dBAI	55 dBAI	55 dBAI	65 dBAI	70 dBAI
Nighttime (2300-0700h)		-	55 dBAI	-	50 dBAI	-	65 dBAI
Daytime (0700-2300h)	4	65 dBAI	65 dBAI	60 dBAI	60 dBAI	70 dBAI	75 dBAI
Nighttime (2300-0700h)		-	60 dBAI	-	55 dBAI	-	70 dBAI
Daytime (0700-2300h)	3	70 dBAI	70 dBAI	65 dBAI	65 dBAI	75 dBAI	80 dBAI
Nighttime (2300-0700h)		-	65 dBAI	-	60 dBAI	-	75 dBAI
Daytime (0700-2300h)	2	75 dBAI	75 dBAI	70 dBAI	70 dBAI	80 dBAI	85 dBAI
Nighttime (2300-0700h)		-	70 dBAI	-	65 dBAI	-	80 dBAI
Daytime (0700-2300h)	1	80 dBAI	80 dBAI	75 dBAI	75 dBAI	85 dBAI	90 dBAI
Nighttime (2300-0700h)		-	75 dBAI	-	70 dBAI	-	85 dBAI

**Notes:**

1. The applicable sound level criterion is the background sound level or the exclusion limit, whichever is higher.

## A.2.2 D-Series Guidelines

The MECP D-series guidelines (MOE, 1995) provide direction for land use planning to maximize compatibility of industrial uses with adjacent land uses. The goal of Guideline D-6 is to minimize encroachment of sensitive land uses on industrial facilities and vice versa, in order to address potential incompatibility due to adverse effects such as noise, odour and dust.

For each class of industry, the guideline provides an estimate of potential influence area and states that this influence area shall be used in the absence of the recommended technical studies. Guideline D-6 also recommends a minimum separation distance between each class of industry and sensitive land uses (see **Table 7**). Section 4.10 of D-6 identifies exceptional circumstances with respect to redevelopment, infill and mixed-use areas. In these cases, the guideline suggests that separation distances at, or less than, the recommended minimum separation distance may be acceptable if a justifying impact assessment is provided.

**Table 7:** Summary of Guideline D-6

Industry Class	Definition	Potential Influence Area	Recommended Minimum Separation Distance (property line to property line)
<b>Class I</b>	Small scale, self-contained, daytime only, infrequent heavy vehicle movements, no outside storage.	70 m	20 m
<b>Class II</b>	Medium scale, outdoor storage of wastes or materials, shift operations and frequent heavy equipment movement during the daytime.	300 m	70 m
<b>Class III</b>	Large scale, outdoor storage of raw and finished products, large production volume, continuous movement of products and employees during daily shift operations.	1000 m	300 m

Guideline D-6 provides criteria for classifying industrial land uses, based on their outputs, scale of operations, processes, schedule, and intensity of operations. **Table 8** provides the classification criteria and examples.

**Table 8:** Guideline D-6 Industrial Categorization Criteria

Criteria	Class I	Class II	Class III
<b>Outputs</b>	<ul style="list-style-type: none"> <li>• Sound not audible off property</li> <li>• Infrequent dust and/ or odour emissions and not intense</li> <li>• No ground-borne vibration</li> </ul>	<ul style="list-style-type: none"> <li>• Sound occasionally audible off property</li> <li>• Frequent dust and/ or odour emissions and occasionally intense</li> <li>• Possible ground-borne vibration</li> </ul>	<ul style="list-style-type: none"> <li>• Sound frequently audible off property</li> <li>• Persistent and intense dust and/ or odour emissions</li> <li>• Frequent ground-borne vibration</li> </ul>
<b>Scale</b>	<ul style="list-style-type: none"> <li>• No outside storage</li> <li>• Small scale plant or scale is irrelevant in relation to all other criteria</li> </ul>	<ul style="list-style-type: none"> <li>• Outside storage permitted</li> <li>• Medium level of production</li> </ul>	<ul style="list-style-type: none"> <li>• Outside storage of raw and finished products</li> <li>• Large production levels</li> </ul>
<b>Process</b>	<ul style="list-style-type: none"> <li>• Self-contained plant or building which produces / stores a packaged product</li> <li>• Low probability of fugitive emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Open process</li> <li>• Periodic outputs of minor annoyance</li> <li>• Low probability of fugitive emissions</li> </ul>	<ul style="list-style-type: none"> <li>• Open process</li> <li>• Frequent outputs of major annoyances</li> <li>• High probability of fugitive emissions</li> </ul>
<b>Operation / Intensity</b>	<ul style="list-style-type: none"> <li>• Daytime operations only</li> <li>• Infrequent movement of products and/or heavy trucks</li> </ul>	<ul style="list-style-type: none"> <li>• Shift operations permitted</li> <li>• Frequent movements of products and/or heavy trucks with majority of movements during daytime hours</li> </ul>	<ul style="list-style-type: none"> <li>• Continuous movement of products and employees</li> <li>• Daily shift operations permitted</li> </ul>
<b>Examples</b>	<ul style="list-style-type: none"> <li>• Electronics Manufacturing</li> <li>• Furniture refinishing</li> <li>• Beverage bottling</li> <li>• Auto parts</li> <li>• Packaging services</li> <li>• Dairy distribution</li> <li>• Laundry and linen supply</li> </ul>	<ul style="list-style-type: none"> <li>• Magazine printing</li> <li>• Paint spray booths</li> <li>• Metal command</li> <li>• Electrical production</li> <li>• Dairy product manufacturing</li> <li>• Feed packing plant</li> </ul>	<ul style="list-style-type: none"> <li>• Paint and varnish manufacturing</li> <li>• Organic chemicals manufacturing</li> <li>• Breweries</li> <li>• Solvent recovery plant</li> <li>• Soap manufacturing</li> <li>• Metal manufacturing</li> </ul>

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# APPENDIX B

## APPENDIX B: WARNING CLAUSES

### B.1 Transportation Sources

**NPC-300 Type A:** Recommended to address surface transportation sound levels in OLAs if sound level is in the range of >55 dBA but ≤ 60 dBA, and noise controls have not been provided.

*“Purchasers/tenants are advised that sound levels due to increasing road traffic (rail traffic) (air traffic) may occasionally interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment.”*

**NPC-300 Type B:** Recommended to address surface transportation sound levels in OLAs if the sound level is in the range of >55 dBA but ≤ 60 dBA, and noise controls have been provided. Recommended to address outdoor aircraft sound levels ≥NEF 30.

*“Purchasers/tenants are advised that despite the inclusion of noise control features in the development and within the building units, sound levels due to increasing road traffic (rail traffic) (air traffic) may on occasions interfere with some activities of the dwelling occupants as the sound levels exceed the sound level limits of the Municipality and the Ministry of the Environment.”*

**NPC-300 Type C:** Applicable for low and medium density developments only, recommended to address transportation sound levels at the plane of window.

*“This dwelling unit has been designed with the provision for adding central air conditioning at the occupant’s discretion. Installation of central air conditioning by the occupant in low and medium density developments will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment.”*

**NPC-300 Type D:** Recommended to address transportation sound levels at the plane of window.

*“This dwelling unit has been supplied with a central air conditioning system which will allow windows and exterior doors to remain closed, thereby ensuring that the indoor sound levels are within the sound level limits of the Municipality and the Ministry of the Environment.”*

**Proximity to Railway Line:** Metrolinx/CN/CP/VIA Warning Clause for developments that are within 300 metres of the right-of-way

*“Warning: [Canadian National Railway Company] [Metrolinx / GO] [Canadian Pacific Railway Company] [VIA Rail Canada Inc.] or its assigns or successors in interest has or have a right-of-way within 300 metres from the land the subject hereof. There may be alterations to or expansions of the rail facilities on such right-of-way in the future including the possibility that the railway or its assigns or successors as aforesaid may expand its operations, which expansion may affect the living environment of the residents in the vicinity, notwithstanding the inclusion of any noise and vibration attenuating measures in the design of the development and individual dwelling(s). CNR/Metrolinx/GO/CPR/VIA will not responsible for any complaints or claims arising from use of such facilities and/or operations on, over or under the aforesaid right-of-way.”*





## **B.2 Stationary Sources**

**NPC-300 Type E:** Recommended to address proximity to commercial/industrial land-use

*"Purchasers/tenants are advised that due to the proximity of the adjacent industrial/commercial land-uses, noise from the industrial/commercial land-uses may at times be audible."*

**NPC-300 Type F:** Recommended to for Class 4 Area Notification

*"Purchasers/tenants are advised that sound levels due to the adjacent industry (facility) (utility) are required to comply with sound level limits that are protective of indoor areas and are based on the assumption that windows and exterior doors are closed. This dwelling unit has been supplied with a ventilation/air conditioning system which will allow windows and exterior doors to remain closed."*

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# APPENDIX C

## APPENDIX C: NOISE MITIGATION GUIDANCE

### C.1 Acoustic/Noise Barrier

Generally, noise controls to attenuate transportation sound levels at Outdoor Living Areas (OLAs) would consist of the implementation of acoustic/noise barriers with materials that would meet the guidance included in NPC-300, for example:

- A wall, berm, wall/berm combination or similar structure, used as a noise control measure, and high enough to break the line-of-sight between the source and the receptor.
- The minimum surface density (face weight) is 20 kg/m<sup>2</sup>
  - Many materials could satisfy the surface density requirement, e.g. wood, glass, concrete, Plexiglas, Acrylite.
  - The required thickness can be determined by dividing the 20 kg/m<sup>2</sup> face weight by the material density (kg/m<sup>3</sup>). Typically, this would imply:
    - 50 mm (2") thickness of wood
    - 13 mm (0.5") thickness of lighter plastic (like Plexiglas or PVC)
    - 6 mm (0.25") thickness of heavier material (like aluminum, glass, concrete)
- The barrier should be structurally sound, appropriately designed to withstand wind and snow load, and constructed without cracks or surface gaps. Joints between panels may need to be overlapped to ensure surfaces are free of gaps, particularly for wood construction.
- Any gaps under the barrier that are necessary for drainage purposes should be minimized and localized, so that the acoustical performance of the barrier is maintained.
- If a sound absorptive face is to be included in the barrier design, the minimum noise reduction coefficient is recommended to be NRC 0.7.

### C.2 Building Ventilation and Air Conditioning

The use of air conditioning itself is not a noise control measure; however, it allows for windows and doors to remain closed, thereby reducing the indoor sound levels.

NPC-300 provides the following guidance with respect to implementation of building ventilation and air conditioning:

- a. the noise produced by the proposed ventilation system in the space served does not exceed 40 dBA. In practice, this condition usually implies that window air conditioning units are not acceptable;
- b. the ventilation system complies with all national, provincial and municipal standards and codes;
- c. the ventilation system is designed by a heating and ventilation professional; and
- d. the ventilation system enables the windows and exterior doors to remain closed.

Air conditioning systems also need to comply with Publication NPC-216, and/or any local municipal noise by-law that has provisions relating to air conditioning equipment.

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# APPENDIX D

# APPENDIX D: TRANSPORTATION SOURCE VOLUMES

## D.1 Rail Volumes

Freight Rail Line Class	Characteristics	Freight Train Modelling Assumptions
<b>Principal Main Line</b>	<ul style="list-style-type: none"> <li>Traffic volume generally exceeds 10 trains per day</li> <li>High speeds, usually exceeding 80 kph (50 mph)</li> <li>Includes heavy trains with 3 or 4 locomotives per train, commuter and passenger trains</li> </ul>	<ul style="list-style-type: none"> <li>Assume one freight train per hour, or 16 trains per 16-hour day and 8 trains per 8-hour night (24 total per 24 hours)</li> <li>Continuously welded rail</li> <li>100 kph speed</li> <li>Assume 4 locomotives per train</li> </ul>
<b>Secondary Main Line</b>	<ul style="list-style-type: none"> <li>Traffic volume generally exceeds 10 trains per day</li> <li>High speeds, usually exceeding 80 kph (50 mph)</li> <li>Trains generally of light to moderate weight with 3 or 4 locomotives per train</li> <li>Majority of traffic may be commuter and passenger trains</li> </ul>	<ul style="list-style-type: none"> <li>Assume one freight train per 2 hours, or 8 trains per 16-hour day and 4 trains per 8-hour night (12 total per 24 hours)</li> <li>Continuously welded rail</li> <li>80 kph speed</li> <li>Assume 3 locomotives per train</li> </ul>
<b>Principal Branch Line</b>	<ul style="list-style-type: none"> <li>Regular scheduled traffic, usually less than 5 trains per day</li> <li>Low speeds, generally limited to 50 kph (30 mph)</li> <li>Trains generally of light to moderate weight with 1 or 2 locomotives per train but may include heavier trains with more units</li> </ul>	<ul style="list-style-type: none"> <li>Assume one freight train per 4 hours, or 4 trains per 16-hour day and 2 trains per 8-hour night (6 total per 24 hours)</li> <li>Continuously welded rail</li> <li>50 kph speed</li> <li>Assume 2 locomotives per train</li> </ul>
<b>Secondary Branch Line</b>	<ul style="list-style-type: none"> <li>Intermittent, unscheduled traffic, usually less than 1 train per day</li> <li>Low speeds, generally limited to 50 kph (30 mph)</li> <li>Trains generally of light to moderate weight with 1 locomotive per train</li> </ul>	<ul style="list-style-type: none"> <li>Assume one freight train per 8 hours, or 2 trains per 16-hour day and 1 train per 8-hour night (3 total per 24 hours)</li> <li>Continuously welded rail</li> <li>50 kph speed</li> <li>Assume 1 locomotive per train</li> </ul>
<b>Spur Line</b>	<ul style="list-style-type: none"> <li>Unscheduled traffic on a demand basis</li> <li>Low speeds, limited to 24kph (15 mph)</li> <li>Trains generally of light to moderate weight with 1 locomotive per train</li> </ul>	<ul style="list-style-type: none"> <li>Assume one freight train per 12 hours, or 1 train per 16-hour day and 1 train per 8-hour night (2 total per 24 hours)</li> <li>Jointed rail</li> <li>24 kph speed</li> <li>Assume 1 locomotive per train</li> </ul>
<b>NOTES:</b>	<ol style="list-style-type: none"> <li>Canadian Rail Atlas has been used to determine rail line classification and ownership (i.e., CN/CP/other)</li> <li>Commuter (GO) and passenger (VIA) rail volumes are based on data received from the responsible authority.</li> </ol>	

## Lorenzo Carboni

---

**From:** Amy Patenaude  
**Sent:** Thursday, September 1, 2022 12:01 PM  
**To:** Lorenzo Carboni  
**Subject:** FW: 2077 & 2105 Royal Windsor Drive - Traffic Data Request RWDI Project #2205822

**SUMMER HOURS: Our organization is moving to summer hours from May 30 through September 2. I will be finished work at 12:30 most Friday afternoons during this time. Enjoy your summer.**

**Amy Patenaude** | Senior Technical/Administrative Assistant  
Americas Noise/Acoustics/Vibration  
**RWDI**  
Direct Line: 226-314-1280

---

**From:** Rail Data Requests <RailDataRequests@metrolinx.com>  
**Sent:** September 1, 2022 11:51 AM  
**To:** Amy Patenaude <Amy.Patenaude@rwdi.com>  
**Subject:** RE: 2077 & 2105 Royal Windsor Drive - Traffic Data Request RWDI Project #2205822

Hi Amy,

Further to your request dated August 31, 2022, the subject lands (2077 & 2105 Royal Windsor Drive, Toronto) are located within 300 metres of the Metrolinx Oakville Subdivision (which carries Lakeshore West GO rail service).

It's anticipated that GO rail service on this Subdivision will be comprised of diesel and electric trains. The GO rail fleet combination on this Subdivision will consist of up to 2 locomotives and 12 passenger cars. The typical GO rail weekday train volume forecast near the subject lands, including both revenue and equipment trips is in the order of 255 trains. The planned detailed trip breakdown is listed below:

	1 Diesel Locomotive	2 Diesel Locomotives	1 Electric Locomotive	2 Electric Locomotives		1 Diesel Locomotive	2 Diesel Locomotives	1 Electric Locomotive	2 Electric Locomotives
Day (0700-2300)	60	11	101	42	Night (2300-0700)	8	4	21	8

The current track design speed near the subject lands is 95 mph (153 km/h).

There are no *anti-whistling by-laws* in affect near the subject lands.

With respect to future electrified rail service, Metrolinx is committed to finding the most sustainable solution for electrifying the GO rail network and we are currently working towards the next phase.

Options have been studied as part of the Transit Project Assessment Process (TPAP) for the GO Expansion program, currently in the procurement phase. The successful proponent team will be responsible for selecting and delivering the right trains and infrastructure to unlock the benefits of GO Expansion. The contract is in a multi-year procurement process and teams have submitted their bids to Infrastructure Ontario and Metrolinx for evaluation and contract award. GO Expansion construction will get underway in late 2022 or 2023.

However, we can advise that train noise is dominated by the powertrain at lower speeds and by the wheel-track interaction at higher speeds. Hence, the noise level and spectrum of electric trains is expected to be very similar at higher speeds, if not identical, to those of equivalent diesel trains.

Given the above considerations, it would be prudent at this time, for the purposes of acoustical analyses for development in proximity to Metrolinx corridors, to assume that the acoustical characteristics of electrified and diesel trains are equivalent. In light of the aforementioned information, acoustical models should employ diesel train parameters as the basis for analyses. We

anticipate that additional information regarding specific operational parameters for electrified trains will become available in the future once the proponent team is selected.

Operational information is subject to change and may be influenced by, among other factors, service planning priorities, operational considerations, funding availability and passenger demand.

It should be noted that this information only pertains to Metrolinx rail service. It would be prudent to contact other rail operators in the area directly for rail traffic information pertaining to non-Metrolinx rail service.

I trust this information is useful. Should you have any questions or concerns, please do not hesitate to contact me.

Regards,  
Tara

**Tara Kamal Ahmadi**

Junior Analyst  
Third Party Projects Review, Capital Projects Group  
Metrolinx | 20 Bay Street | Suite 600 | Toronto | Ontario | M5J 2W3



---

**From:** Amy Patenaude <[Amy.Patenaude@rwdi.com](mailto:Amy.Patenaude@rwdi.com)>  
**Sent:** August 31, 2022 2:06 PM  
**To:** Rail Data Requests <[RailDataRequests@metrolinx.com](mailto:RailDataRequests@metrolinx.com)>  
**Cc:** Lorenzo Carboni <[Lorenzo.Carboni@rwdi.com](mailto:Lorenzo.Carboni@rwdi.com)>  
**Subject:** FW: 2077 & 2105 Royal Windsor Drive - Traffic Data Request RWDI Project #2205822

**EXTERNAL SENDER:** Do not click any links or open any attachments unless you trust the sender and know the content is safe.  
**EXPÉDITEUR EXTERNE:** Ne cliquez sur aucun lien et n'ouvrez aucune pièce jointe à moins qu'ils ne proviennent d'un expéditeur fiable, ou que vous ayez l'assurance que le contenu provient d'une source sûre.

Good Day,

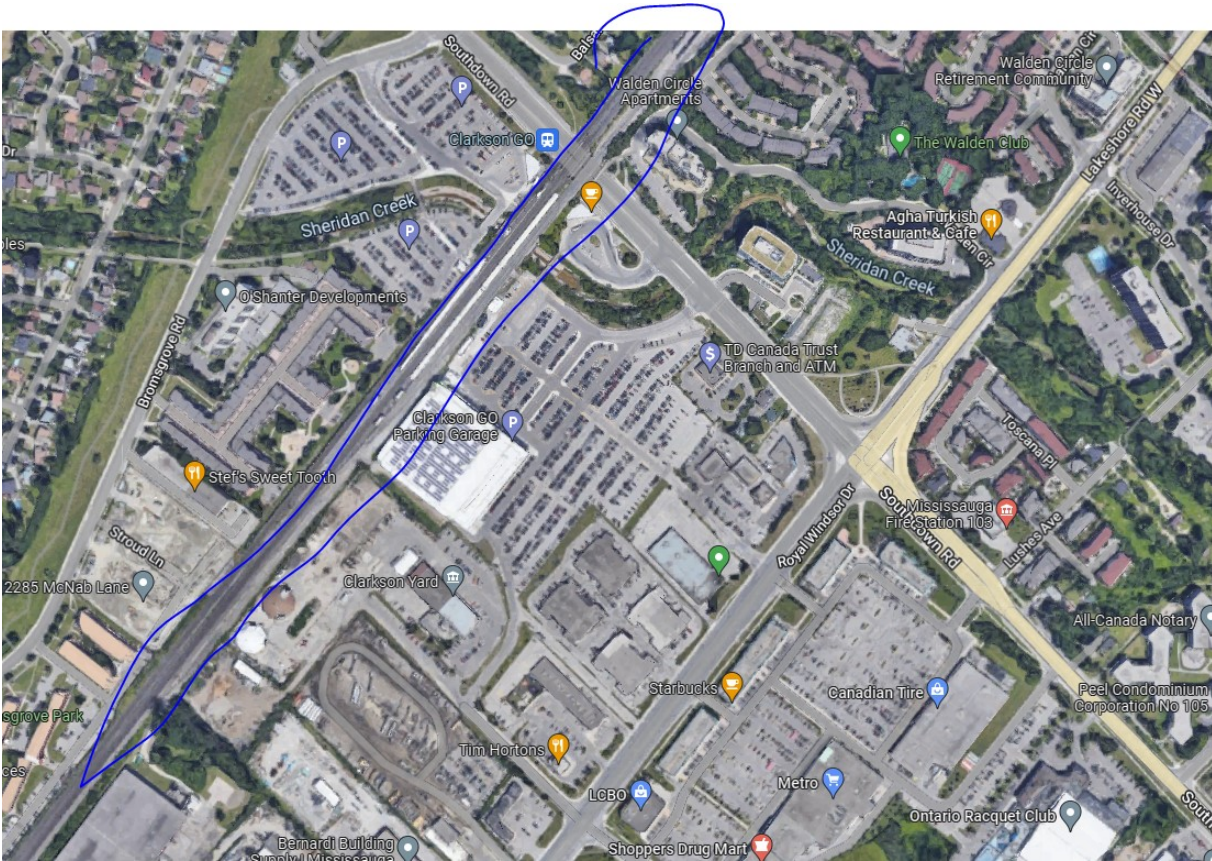
We are a noise study for the above-referenced address and require rail data.

We are looking for:

- Growth rate per annum for a 10-year period
- Day and night train volumes
- Average number of cars per train
- Number of Locomotives per train
- Maximum permissible speed
- Whistles used at crossings in the area
- Type of track (continuously welded, or jointed)
- Any idling of locomotive in the vicinity, and approximate duration of idling

The station involved is Clarkson.

I believe CN also runs freight on this line. If you have any information on that, it would be greatly appreciated.



Thank you.  
Amy

**SUMMER HOURS: Our organization is moving to summer hours from May 30 through September 2. I will be finished work at 12:30 most Friday afternoons during this time. Enjoy your summer.**



**Amy Patenaude** | Senior Technical/Administrative Assistant  
Americas Noise/Acoustics/Vibration  
**RWDI**  
600 Southgate Drive, Guelph, ON N1G 4P6 Canada

Direct Line: 226-314-1280 | Fax: (519) 823-1316  
[rwdi.com](http://rwdi.com)

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Date: 01-Sep-22

# NOISE REPORT FOR PROPOSED DEVELOPMENT

## REQUESTED BY:

Name: Amy Patenaude

Company: RWDI

## Location:

Royal Windsor Dr between Southdown Road and Winston Churchill Blvd.  
Southdown Road (South Section) between Royal Windsor Dr to Lakeshore Road  
Southdown Road (North Section) between Royal Windsor Dr to Truscott Dr

## PREPARED BY:

Name: Loudel Uy

Tel#: (905) 615-3200



ID# 561

## ON SITE TRAFFIC DATA

Specific	Street Names			
	Royal Windsor Dr	Southdown Rd (South)	Southdown Rd (North)	
<b>AADT:</b>	38,500	8,200	44,200	
<b># of Lanes:</b>	4 lanes	2 lanes	4 lanes	
<b>% Trucks:</b>	8%	13%	11.5%	
<b>Medium/Heavy Trucks Ratio:</b>	55/45	55/45	55/45	
<b>Day/Night Split:</b>	90/10	90/10	90/10	
<b>Posted Speed Limit:</b>		60 km/h	60 km/h	
<b>Gradient Of Road:</b>	<2%	<2%	<2%	
<b>Ultimate R.O.W:</b>	35m	35m	35m	

## Comments:

Ultimate Traffic Data Only (2041)

The page features a decorative background with a large, light gray curved shape on the right side and a blue triangular shape on the top left. A white curved line separates the blue and gray areas.

# APPENDIX E

# CLARKSON GO

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## SLATE ASSET MANAGEMENT

121 King St W

Unit 200

Toronto ON M5H 3T9

## REZONING SUBMISSION

NOVEMBER 2022

### **Gensler**

Architect  
150 King Street West  
Suite 1400  
Toronto ON M5H 1J9  
Canada  
Tel. 416.601.3890

### Lithos

Civil Engineering  
150 Bermondsey Rd  
Unit 200  
Toronto ON M4A 1Y1  
Canada  
Tel. 416-750-7769

### Goodmans

Planning Legal  
333 Bay St.  
#3400  
Toronto ON M5H 2S7  
Canada  
Tel. 416-979-2211

### Janet Rosenberg & Studio Inc.

Landscape Architect  
148 Kenwood Ave.  
Toronto ON M6C 2S3  
Canada  
Tel. 416-656-6665

### Theakston

Wind Consultant  
Glengarry Crescent  
Fergus ON N1M 3E2  
Canada  
Tel. 519-787-2910

### LEA

Traffic Consultant  
425 University Avenue  
Suite 400  
Toronto ON M5G 1T6  
Canada  
Tel. 905-470-0015

### Pinchin

Geotechnical Consultant  
2360 Meadowpine Blvd  
Unit 2  
Mississauga ON L5N 6S2  
Canada  
Tel. 905-363-0678

### GSAI

Sustainability Consultant  
10 Kingsbridge Garden Circle  
Suite 700  
Mississauga ON L5R 3K6  
Canada  
Tel. 905-568-8888

### WSP

Air Consultant  
2300 Yonge St  
Toronto ON M4P 1E4  
Canada  
Tel. 416-487-5256

### Kuntz

Arborist Consultant  
1267 Lakeshore W  
Oakville ON L6K 0B3  
Canada  
Tel. 289-837-1871

STATISTICS SUMMARY

STATISTICS - SUMMARY 2022-11-23				GENSLER			
West Block	Notes	East Block	Total	Area Difference from before west extension (amt 221013)		Estimated	Notes
Site Area			14,864 m <sup>2</sup>	159,995 SF			
New Public Road	1,834 m <sup>2</sup>	1,325 m <sup>2</sup>	3,159 m <sup>2</sup>	34,003 SF			
New Private Road	N/A	721 m <sup>2</sup>	721 m <sup>2</sup>	7,761 SF			
Proposed development area	4,245 m <sup>2</sup>	6,412 m <sup>2</sup>	10,657 m <sup>2</sup>	114,712 SF			
Parkland	480 m <sup>2</sup>	568 m <sup>2</sup>	1,048 m <sup>2</sup>	11,281 SF			
Landscape Open space	1,034 m <sup>2</sup>	1,825 m <sup>2</sup>	2,859 m <sup>2</sup>	30,774 SF			
Gross Building Area (Above ground)	56,134 m <sup>2</sup>	50,599 m <sup>2</sup>	106,733 m <sup>2</sup>	1,148,871 SF	+ 9,084 m <sup>2</sup>	+ 97,777 SF	n/a
Gross Building Area (Underground)	19,338 m <sup>2</sup>	17,442 m <sup>2</sup>	36,780 m <sup>2</sup>	395,904 SF	n/a	n/a	n/a
Total GBA	75,472 m <sup>2</sup>	68,041 m <sup>2</sup>	143,513 m <sup>2</sup>	1,544,775 SF	n/a	n/a	n/a
GFA	48,645 m <sup>2</sup>	41,815 m <sup>2</sup>	90,460 m <sup>2</sup>	952,181 SF	+ 9,368 m <sup>2</sup>	+ 99,070 SF	+ 46,240 SF
Salable	41,390 m <sup>2</sup>	37,110 m <sup>2</sup>	78,500 m <sup>2</sup>	844,970 SF	+ 7,906 m <sup>2</sup>	+ 84,910 SF	n/a
Retail Rentable	987 m <sup>2</sup>	990 m <sup>2</sup>	1,978 m <sup>2</sup>	21,286 SF	+ 5,287 m <sup>2</sup>	+ 59,196 SF	n/a
Live / Work	2,229 m <sup>2</sup>	6,568 m <sup>2</sup>	8,797 m <sup>2</sup>	94,583 SF			Combined retail rentable + live/work
Net FSI (of main site area)	10.99	6.52	17.51	8.75			
Residential Units	650 UNITS	587 UNITS	1,237 UNITS	67 UNITS	71 UNITS		
Average unit size	685 SF	680 SF	683 SF	26 SF	n/a		
TOTAL Required Amenity	3,640 m <sup>2</sup>	3,287 m <sup>2</sup>	6,927 m <sup>2</sup>	74,564 SF			
TOTAL Proposed Amenity	3,160 m <sup>2</sup>	3,540 m <sup>2</sup>	6,700 m <sup>2</sup>	72,121 SF			
Indoor Amenity	1,697 m <sup>2</sup>	1,771 m <sup>2</sup>	3,468 m <sup>2</sup>	37,131 SF			
Outdoor Amenity	1,463 m <sup>2</sup>	1,769 m <sup>2</sup>	3,232 m <sup>2</sup>	34,789 SF			
Net Retail Area	987 m <sup>2</sup>	990 m <sup>2</sup>	1,978 m <sup>2</sup>	21,286 SF			
Below Ground Parking Breakdown							
Residential	0.6	390	Notes: 4 N/A levels U/G	352	Notes: 2 N/A levels U/G	742	
Visitor/Retail Shared	0.1	65	Located on P1	59	Located on P1	124	
TOTAL Proposed Parking	455	411		391		866	
Bike Parkings (all underground)							
Residential Bikes							
Long Term	0.6	350		352		742	
Short Term	0.05	34		34		68	
Retail	0.1 per 100 sm	2		2		4	
Short Term	0.2 per 100 sm	4		4		8	
TOTAL Required Bike Parking		427		389		816	
TOTAL Proposed Bike Parking		416		288		704	
GFA includes all above grade construction							
Interior Amenity is provided on 2nd floor and podium roof							
Exterior Amenity is provided on 2nd floor and podium roof							
20% parking required to be EV							

AREA STATISTICS

STATISTICS - AREAS 2022-11-23																			
OPTION 1		PHASE 1 (WEST BLOCK)						TOWER 2		PHASE 2 (EAST BLOCK)									
LEVEL	PROGRAM	GBA	GFA	SALEABLE	RETAIL	RENTABLE	GBA	GFA	SALEABLE	LEVEL	PROGRAM	GBA	GFA	SALEABLE	RETAIL	RENTABLE	GBA	GFA	SALEABLE
L10	MECHANICAL	1,090 SF	800 SF	800 SF	800 SF	800 SF	1,090 SF	800 SF	800 SF	L10	MECHANICAL	1,090 SF	800 SF	800 SF	800 SF	800 SF	1,090 SF	800 SF	800 SF
<b>SUBTOTAL</b>																			

UNIT COUNT

UNIT COUNT 2022-11-23															
OPTION 1		PHASE 1 (WEST BLOCK)						TOWER 2		PHASE 2 (EAST BLOCK)					
LEVEL	1 BED	2 BED	3 BED	LIVE / WORK	TOTAL	1 BED	2 BED	3 BED	TOTAL	LEVEL	1 BED	2 BED	3 BED	LIVE / WORK	TOTAL
L10	0	0	0	0	0	0	0	0	0	L10	0	0	0	0	0
<b>SUBTOTAL</b>															
<b>PERCENTAGE</b>															

UNIT MIX

UNIT MIX 2022-11-23															
OPTION 1		PHASE 1 (WEST BLOCK)						TOWER 2		PHASE 2 (EAST BLOCK)					
LEVEL	1 BED	2 BED	3 BED	LIVE / WORK	TOTAL	1 BED	2 BED	3 BED	TOTAL	LEVEL	1 BED	2 BED	3 BED	LIVE / WORK	TOTAL
L10	0	0	0	0	0	0	0	0	0	L10	0	0	0	0	0
<b>SUBTOTAL</b>															
<b>PERCENTAGE</b>															

2022-11-23 11:15 AM: BM-300.007.0245.000 - Clarkson\_BDA\_CDDArchitects-67.045.000 - ZBA - 020.rvt

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

---

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada

Tel 416.601.3890

Date: \_\_\_\_\_ Description: \_\_\_\_\_

---

Seal / Signature: \_\_\_\_\_

---

Project Name: \_\_\_\_\_

CLARKSON GO

---

Project Number: \_\_\_\_\_

067.1245.000

Description: \_\_\_\_\_

STATISTICS

---

Scale: \_\_\_\_\_

A0.030xx



CONTEXT PLAN (SCALE: NTS)

SUMMARY

DRAWING INDEX

DRAWING INDEX	
Sheet Number	Sheet Name
A0.030xx	STATISTICS
A0.031	ARCHITECTURAL SITE PLAN
A0.032	PHASING PLAN
A0.033	SITE SURVEY
A1.196	LOWER LEVEL 05 PLAN (WEST)
A1.197	LOWER LEVELS 03 PLAN (EAST)
A1.198	LOWER LEVEL - TYPICAL PLAN
A1.199	LOWER LEVEL 01 PLAN
A1.201	LEVEL 01 PLAN
A1.202	LEVEL 02
A1.205	LEVEL 03-05 PLAN
A1.206	LEVEL 06 PLAN
A1.207	LEVEL 07 PLAN
A1.208	LEVEL 08 PLAN - AMENITY
A1.210	LEVEL 10 - TYPICAL TOWER
A1.222	LEVEL 22 - TOWER 4 STEPBACK
A1.223	LEVEL 23 - TOWER 4 STEPBACK
A1.224	LEVEL 24 - TOWER 3 STEPBACK
A1.225	LEVEL 25 - TOWER 3 STEPBACK
A1.226	LEVEL 26 - TOWER 2 STEPBACK
A1.227	LEVEL 27 - TOWER 2 STEPBACK

DRAWING INDEX	
Sheet Number	Sheet Name
A1.228	LEVEL 28 - TOWER 1 STEPBACK
A1.229	LEVEL 29 - TOWER 1 STEPBACK
A2.000	BUILDING ELEVATIONS
A2.001	BUILDING ELEVATIONS
A2.002	BUILDING SECTIONS
A2.001	BUILDING SECTIONS
A2.002	BUILDING SECTIONS

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West Suite 1400 Toronto, Ontario M5H 1J9 Canada Tel 416.601.3890



### 01 SITE PLAN

SCALE: 1:300

#### SHEET NOTES

#### LEGEND

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
CLARKSON GO

Project Number  
067.1245.000

Description  
ARCHITECTURAL SITE PLAN

Scale  
As indicated

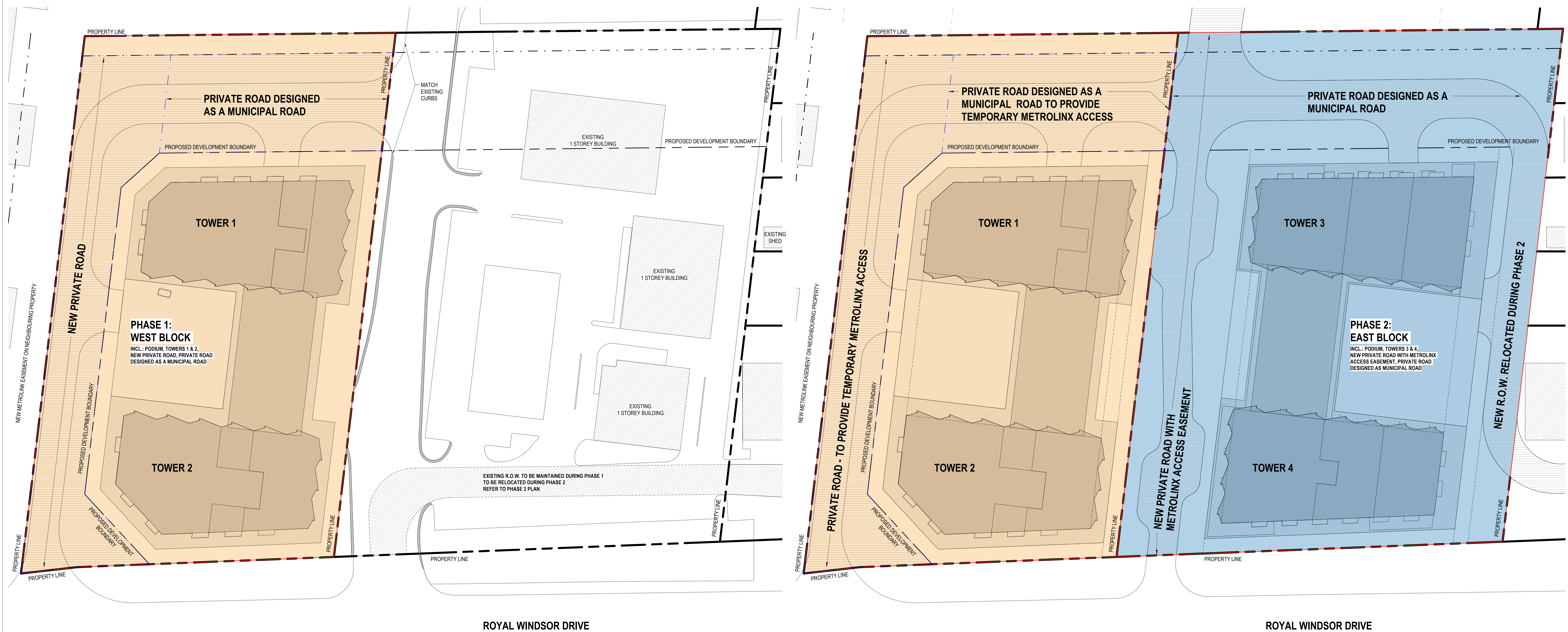
**A0.031**

**SLATE ASSET MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



**1 PHASE 1 PLAN - WEST BLOCK**  
SCALE: 1 : 300

**2 PHASE 2 PLAN - EAST BLOCK**  
SCALE: 1 : 300

**LEGEND**

- PHASE 1 - WEST BLOCK
- PHASE 2 - EAST BLOCK

**GENERAL NOTES**

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

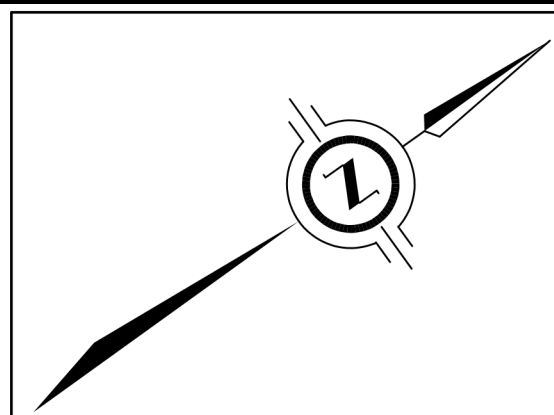
Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**PHASING PLAN**

Scale  
As indicated

**A0.032**



SKETCH SHOWING TOPOGRAPHIC CONDITIONS ON  
 PART OF LOT 31, CONCESSION 2  
 SOUTH OF DUNDAS STREET  
 (GEOGRAPHIC TOWNSHIP OF TORONTO)  
 CITY OF MISSISSAUGA  
 REGIONAL MUNICIPALITY OF PEEL  
 SCALE 1 : 250  
 J.D. BARNES LIMITED  
 © COPYRIGHT  
 METRIC DISTANCES AND COORDINATES SHOWN ON THIS PLAN ARE IN METRES  
 AND CAN BE CONVERTED TO FEET BY DIVING BY 0.3048.

**NOTES**  
 BEARINGS ARE UTM GRID, DERIVED FROM REAL TIME NETWORK (RTN) OBSERVATIONS,  
 UTM ZONE 17, NAD83 (CSRS) (2010.0).  
 DISTANCES ARE GROUND AND CAN BE CONVERTED TO GRID BY MULTIPLYING BY  
 THE COMBINED SCALE FACTOR OF 0.99974.

**ELEVATION NOTE**  
 ELEVATIONS SHOWN ON THIS PLAN ARE DERIVED FROM  
 THE CITY OF MISSISSAUGA BENCHMARKS:  
 No. 1035  
 ELEVATION=98.626m  
 No. 1036  
 ELEVATION=100.258m

**LOCAL BENCHMARK**  
 CUT CROSS IN ASPHALT ENTRANCE LOCATED AT THE SOUTHERN CORNER OF  
 No. 2105 ROYAL WINDSOR DRIVE, AS SHOWN ON FACE OF PLAN.  
 ELEVATION=95.73m



- LEGEND**
- CB DENOTES CATCHBASIN
  - SCB DENOTES SIDE INLET CATCHBASIN
  - HJB DENOTES HYDRO JUNCTION BOX
  - GK DENOTES GAS KEY
  - GM DENOTES GAS METER
  - HW DENOTES HANDWELL
  - MH DENOTES MANHOLE
  - SAN MH DENOTES SANITARY MANHOLE
  - STM MH DENOTES STORM MANHOLE
  - BOL DENOTES BOLLARD
  - HP DENOTES HYDRO POLE
  - HT DENOTES HYDRO TRANSFORMER
  - LS DENOTES LIGHT STANDARD
  - TP DENOTES TELEPHONE POLE
  - PED DENOTES TELEPHONE PEDIESTAL
  - TJB DENOTES TELEPHONE JUNCTION BOX
  - H DENOTES FIRE HYDRANT
  - WK DENOTES WATER KEY
  - FDC DENOTES FIRE DEPARTMENT CONNECTION
  - ICV DENOTES IRRIGATION CONTROL VALVE
  - SV DENOTES SPRINKLER VALVE
  - WV DENOTES WATER VALVE
  - BOC DENOTES BACK OF CURB
  - C DENOTES OVERHEAD TELEVISION CABLE
  - DENOTES OVERHEAD HYDRO CABLE
  - DENOTES TREE
  - DENOTES CONIFEROUS TREE  
 DIA=DIAMETER OF TRUNK IN METRES
  - DENOTES DECIDUOUS TREE  
 DIA=DIAMETER OF TRUNK IN METRES

BEFORE DIGGING, UNDERGROUND SERVICES SHOULD BE LOCATED ON  
 SITE BY THE RESPECTIVE AGENCIES.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT  
 LOCAL BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED AND  
 THAT THE RELATIVE ELEVATIONS AGREE WITH THE INFORMATION  
 SHOWN ON THIS PLAN.

PRIMARY CONTOURS ARE AT 0.50m INTERVALS.  
 SECONDARY CONTOURS ARE AT 0.25m INTERVALS.  
 BOUNDARY INFORMATION IS COMPILED FROM SURVEYOR'S REAL PROPERTY REPORTS  
 BY J.D. BARNES LIMITED, DATED APRIL 2020, FILE No. V-20-30-496-00-A AND  
 20-30-496-00-B.  
 FIELDWORK COMPLETED ON THE 26th DAY OF MARCH, 2020.  
 ADDITIONAL FIELDWORK COMPLETED ON THE 16th DAY OF NOVEMBER, 2022.

**J.D. BARNES** SURVEYING  
 LIMITED GIS  
 LAND INFORMATION SPECIALISTS  
 88 WHEELABRATOR WAY, SUITE A, MILTON, ONTARIO L7T 1C1  
 T: (905) 875-9955 F: (905) 875-9956 www.jdbarnes.com

DRAWN BY: AP/NO CHECKED BY: TSJ/RSD REFERENCE NO: 20-30-496-00-0  
 FILE: G:\20-30-496-00\Drawings\20-30-496-00-00.dwg DATE: 11/21/22

**GENERAL NOTES**

NOTE:  
 THE LAND SURVEY INFORMATION REPRODUCED ON  
 THIS DRAWING WAS RECEIVED IN GOOD FAITH  
 FROM THE OWNER, AND IS PROVIDED HERE  
 MERELY AS A CONVENIENCE. THE ARCHITECT  
 BEARS NO RESPONSIBILITY, EXPRESSED OR  
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 INFORMATION BY OTHERS, WHICH REMAINS THE  
 SOLE RESPONSIBILITY OF THE SURVEYOR.

**SLATE ASSET  
 MANAGEMENT**

121 King St W  
 Unit 200  
 Toronto ON M5H 3T9

**Gensler**

150 King Street West  
 Suite 1400  
 Toronto, Ontario M5H 1J9  
 Canada  
 Tel 416.601.3890

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**SITE SURVEY**

Scale

**A0.033**

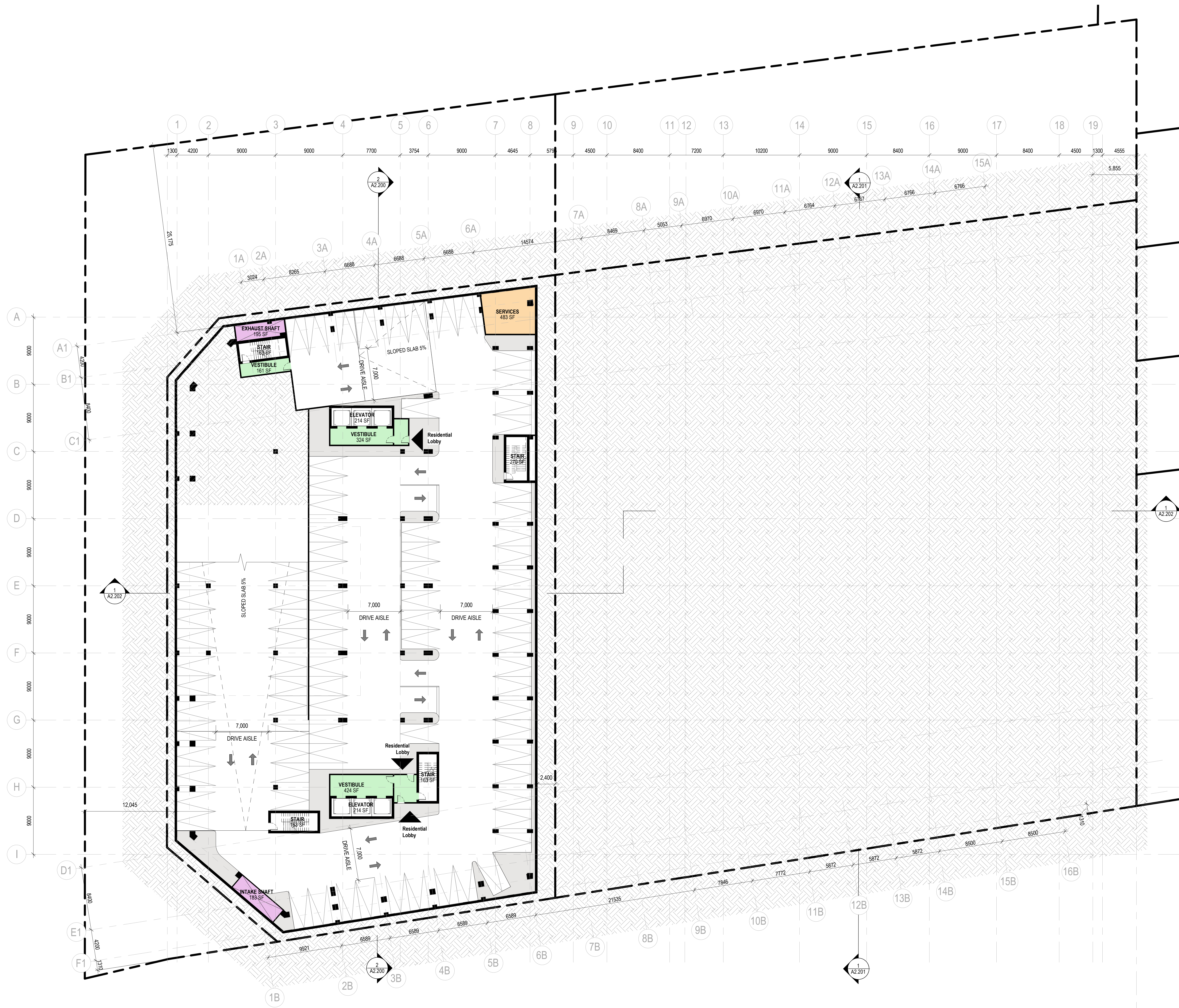
2022-11-22 11:11:55 AM - B:\30-30-496-00\Drawings\20-30-496-00-00.dwg - 671245000-2824.dwg - 0202

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



2022-11-12 11:42 AM BIM 360/067 2245.000 - Clarkson\_TBA\_220207bchdrns-671245.000 - ZBA\_020.rvt

**WEST BLOCK PARKING COUNT**

LEVEL P5	Standard - 2600 x 5200 Mississauga	67
LEVEL P4	Standard - 2600 x 5200 Mississauga	97
LEVEL P3	Standard - 2600 x 5200 Mississauga	97
LEVEL P2	Standard - 2600 x 5200 Mississauga	97
LEVEL P1	Standard - 2600 x 5200 Mississauga	99
LEVEL P0	Standard - 2600 x 5200 Mississauga	61
	Type A - 4900 x 5200 Barrier Free	5
	Type B - 3900 x 5200 Barrier Free	12
<b>Grand total</b>		<b>438</b>

**EAST BLOCK PARKING COUNT**

LEVEL P3	Standard - 2600 x 5200 Mississauga	127
LEVEL P2	Standard - 2600 x 5200 Mississauga	159
LEVEL P1	Standard - 2600 x 5200 Mississauga	112
	Type A - 4900 x 5200 Barrier Free	6
	Type B - 3900 x 5200 Barrier Free	10
<b>Grand total</b>		<b>414</b>

**KEY PLAN**

Date	Description

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LOWER LEVEL 05 PLAN (WEST)**

Scale  
**1 : 200**

**A1.196**



# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel 416.601.3890



REFER TO A1.198 FOR  
TYPICAL PLAN

### WEST BLOCK PARKING COUNT

LEVEL P5	Standard - 2600 x 5200 Mississauga	67
LEVEL P4	Standard - 2600 x 5200 Mississauga	97
LEVEL P3	Standard - 2600 x 5200 Mississauga	97
LEVEL P2	Standard - 2600 x 5200 Mississauga	99
LEVEL P1	Standard - 2600 x 5200 Mississauga	61
	Type A - 4900 x 5200 Barrier Free	5
	Type B - 3900 x 5200 Barrier Free	12
<b>Grand total</b>		<b>438</b>

### EAST BLOCK PARKING COUNT

LEVEL P3	Standard - 2600 x 5200 Mississauga	127
LEVEL P2	Standard - 2600 x 5200 Mississauga	159
LEVEL P1	Standard - 2600 x 5200 Mississauga	112
	Type A - 4900 x 5200 Barrier Free	6
	Type B - 3900 x 5200 Barrier Free	10
<b>Grand total</b>		<b>414</b>

Date	Description
------	-------------

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LOWER LEVELS 03 PLAN (EAST)**

Scale  
**1 : 200**

**A1.197**

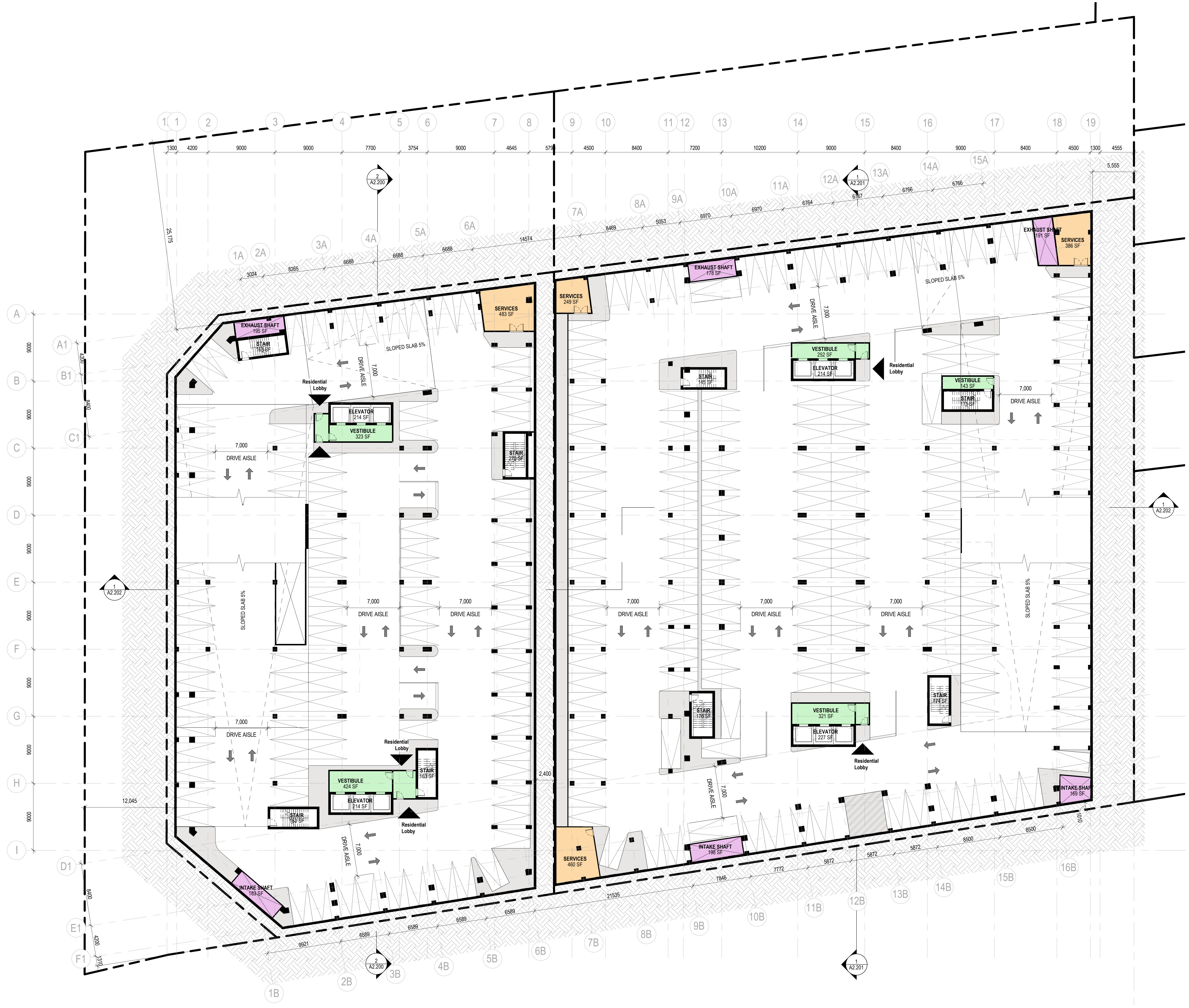
2022-11-12 11:52 AM: BIM 360://067.1245.000 - Clarkson GO - Clarkson GO - 0301workbooks - 67.1245.000 - 2B/A - 020.rvt

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel 416.601.3890



2022-11-12 11:51 AM - BIM 360://067\_2245000 - Clarkson GO - Clarkson GO - 2022/11/12 11:51 AM - BIM 360://067\_2245000 - Clarkson GO - Clarkson GO - 671245000 - ZBA - 020.rvt

### WEST BLOCK PARKING COUNT

LEVEL P5	Standard - 2600 x 5200 Mississauga	67
LEVEL P4	Standard - 2600 x 5200 Mississauga	97
LEVEL P3	Standard - 2600 x 5200 Mississauga	97
LEVEL P2	Standard - 2600 x 5200 Mississauga	99
LEVEL P1	Standard - 2600 x 5200 Mississauga	61
	Type A - 4900 x 5200 Barrier Free	5
	Type B - 3900 x 5200 Barrier Free	12
Grand total		438

### EAST BLOCK PARKING COUNT

LEVEL P3	Standard - 2600 x 5200 Mississauga	127
LEVEL P2	Standard - 2600 x 5200 Mississauga	159
LEVEL P1	Standard - 2600 x 5200 Mississauga	112
	Type A - 4900 x 5200 Barrier Free	6
	Type B - 3900 x 5200 Barrier Free	10
Grand total		414

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LOWER LEVEL - TYPICAL PLAN**

Scale  
**1 : 200**

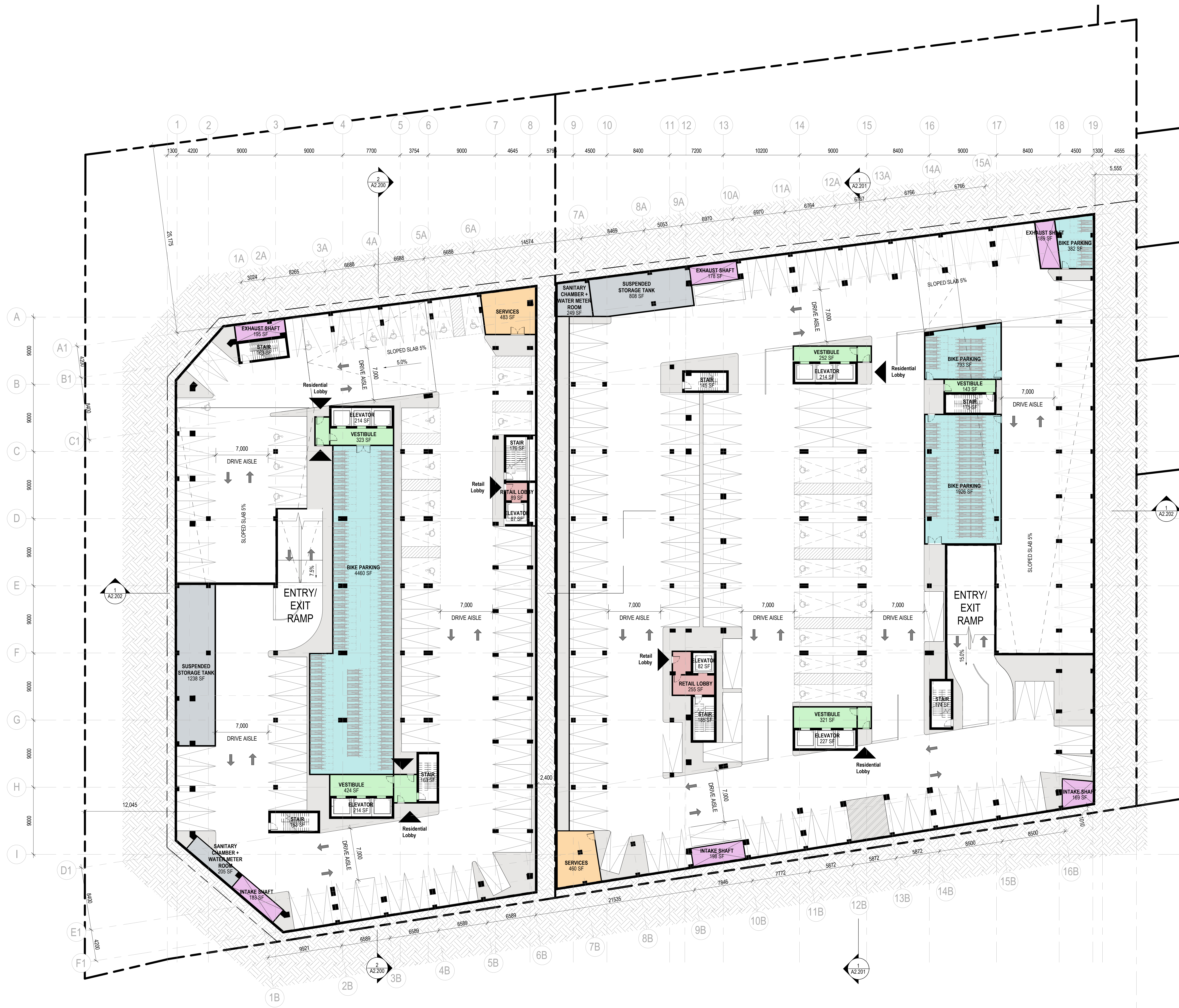
**A1.198**

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada



Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LOWER LEVEL 01 PLAN**

Scale  
**1 : 200**

**A1.199**

**WEST BLOCK PARKING COUNT**

LEVEL P5	Standard - 2600 x 5200 Mississauga	67
LEVEL P4	Standard - 2600 x 5200 Mississauga	97
LEVEL P3	Standard - 2600 x 5200 Mississauga	97
LEVEL P2	Standard - 2600 x 5200 Mississauga	99
LEVEL P1	Standard - 2600 x 5200 Mississauga	61
	Type A - 4900 x 5200 Barrier Free	5
	Type B - 3900 x 5200 Barrier Free	12
<b>Grand total</b>		<b>438</b>

**EAST BLOCK PARKING COUNT**

LEVEL P3	Standard - 2600 x 5200 Mississauga	127
LEVEL P2	Standard - 2600 x 5200 Mississauga	159
LEVEL P1	Standard - 2600 x 5200 Mississauga	112
	Type A - 4900 x 5200 Barrier Free	6
	Type B - 3900 x 5200 Barrier Free	10
<b>Grand total</b>		<b>414</b>

2022-11-12 11:22 AM, BIM 360://067.1245.000 - Clarkson GO - 020200000000 - 67.1245.000 - 200A - 0200A

**SLATE ASSET MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada



**SHEET NOTES**

2022-11-23 11:25:51 AM BIM 360://067.1245.000 - Clarkson\_TBA\_02020architects-67.1245.000\_ZBA\_020.rvt

**LEGEND**

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LEVEL 01 PLAN**

Scale  
**1 : 200**

**A1.201**

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**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel 416.601.3890



Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature \_\_\_\_\_

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LEVEL 02**

Scale  
**1 : 200**

**A1.202**

**SHEET NOTES**

**GENERAL NOTES**

2022-11-22 11:21:17 AM B:\067\067\_1245\000 - Clarkson GO - 0202\sheetsets - 067.1245.000 - 2BD\_A\_0202.rvt

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LEVEL 03-05 PLAN**

Scale  
**1 : 200**

**A1.205**

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### SHEET NOTES

### LEGEND

2022-11-22 11:25 AM BIM 360/067/245000 - Clarkson GO - Clarkson GO - 0306/rev001 - 01.245.000 - 2BD\_A\_0305.rvt

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
CLARKSON GO

Project Number  
067.1245.000

Description  
LEVEL 06 PLAN

Scale  
1 : 200

**A1.206**

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**SHEET NOTES**

2022-11-23 11:24:34 AM BIM 360://067.1245.000 - Clarkson GO - Clarkson GO - 2022/11/23 11:24:34 AM - BIM 360://067.1245.000 - Clarkson GO - 2022/11/23 11:24:34 AM - BIM 360://067.1245.000 - Clarkson GO - 2022/11/23 11:24:34 AM

**LEGEND**

Legend area for the floor plan, containing symbols and descriptions for room types and features.

# SLATE ASSET MANAGEMENT

121 King St W  
Unit 200  
Toronto ON M5H 3T9

## Gensler

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LEVEL 07 PLAN**

Scale  
1 : 200

**A1.207**

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### SHEET NOTES

### LEGEND

2022-11-22 11:24:42 AM BIM 360://067.1245.000 - Clarkson GO - 02022067000 - 07.1245.000 - 2BD\_A\_020.rvt



**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



Date	Description

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**LEVEL 08 PLAN - AMENITY**

Scale  
**1 : 200**

**A1.208**

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**SHEET NOTES**

**LEGEND**

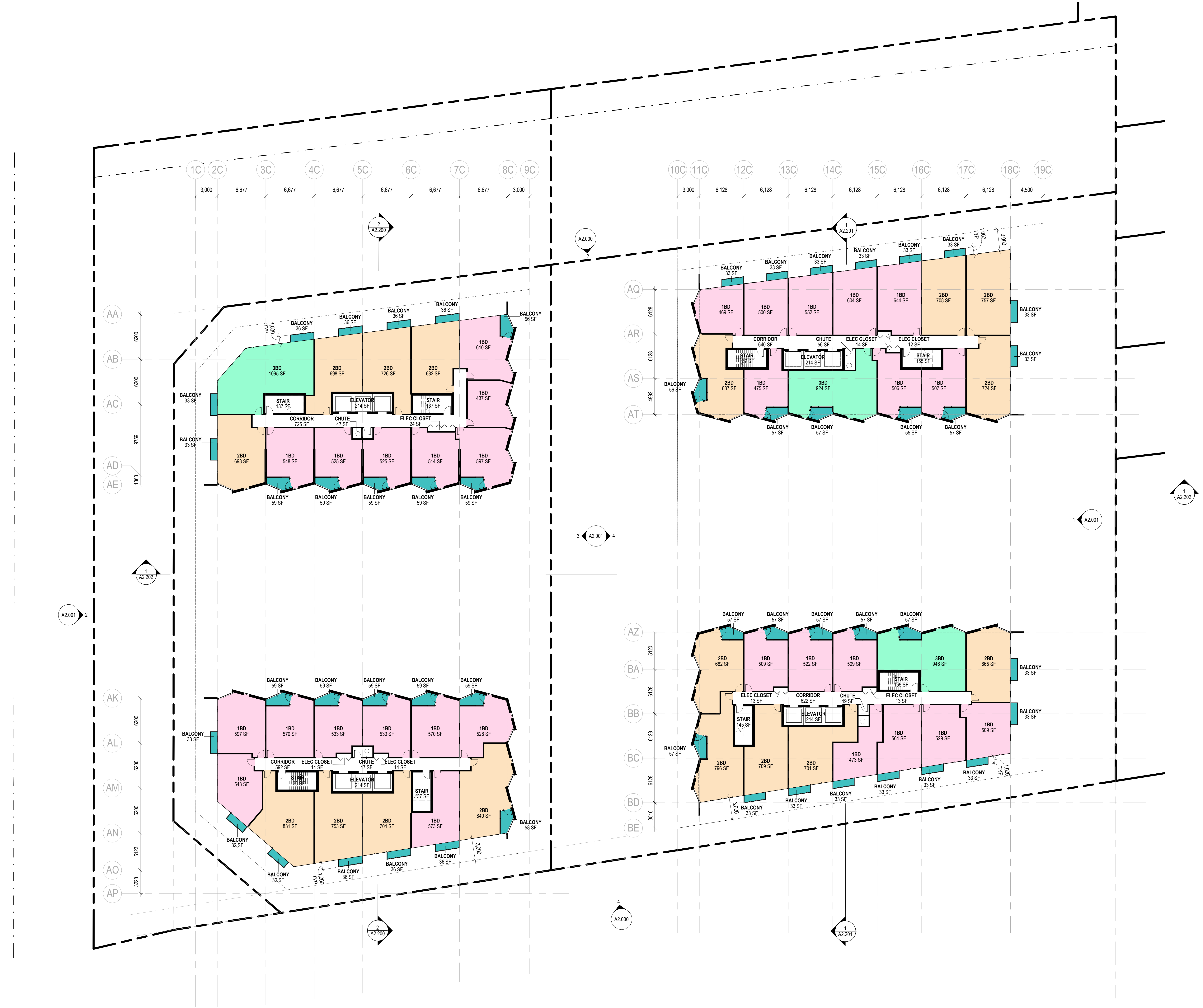
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**SLATE ASSET MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

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Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel 416.601.3890



Date	Description

Seal / Signature

Project Name  
CLARKSON GO

Project Number  
067.1245.000

Description  
LEVEL 10 - TYPICAL TOWER

Scale  
1 : 200

**A1.210**

**SHEET NOTES**

**GENERAL NOTES**

2022-11-23 11:25:42 AM BIM 360://067.1245.000 - Clarkson GO - Clarkson GO - 2020/06/24 - 020/06/24 - 07.1245.000 - 2BD\_A\_020.rvt

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel 416.601.3890

Date	Description
------	-------------

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

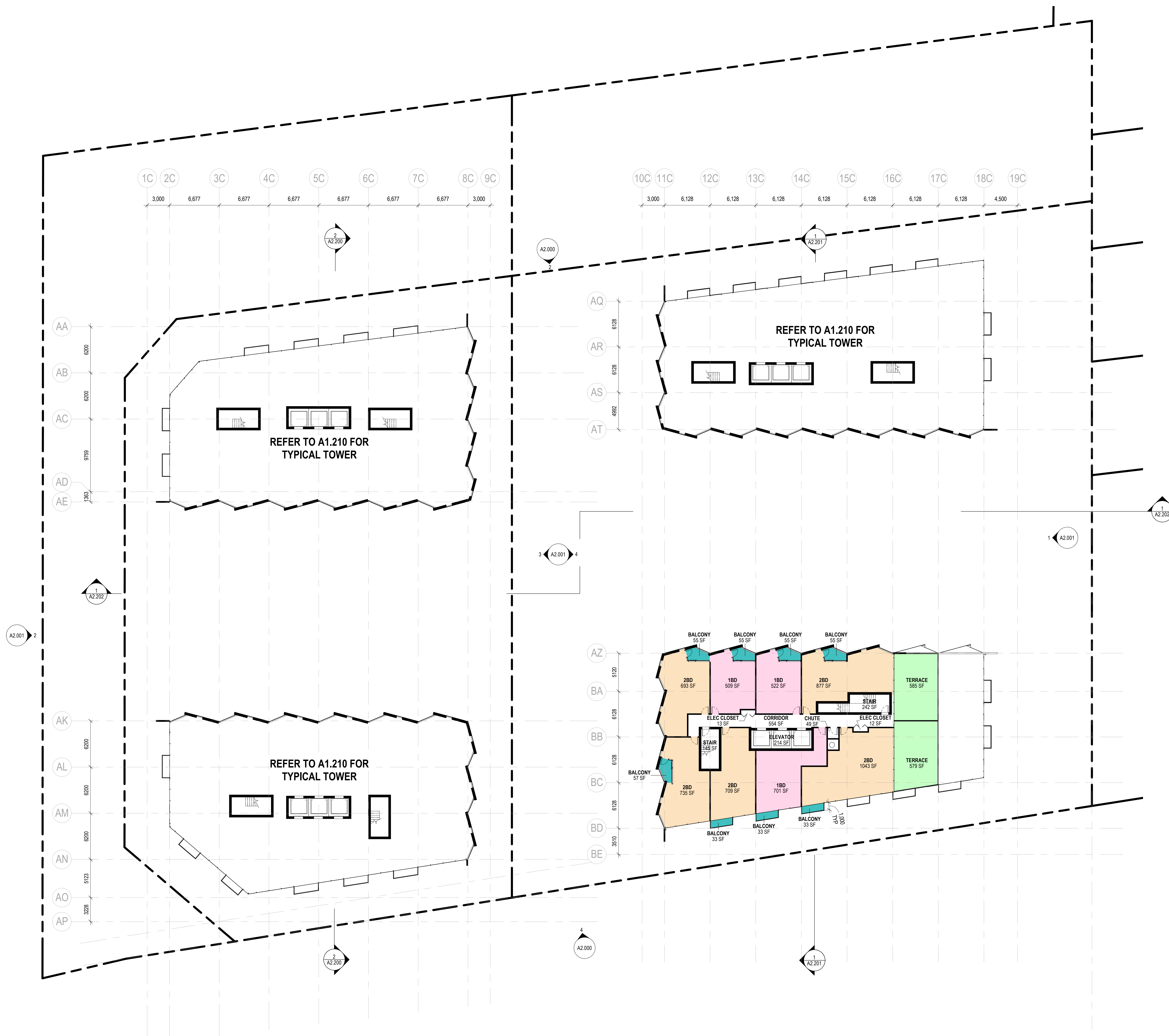
LEVEL 22 - TOWER 4 STEPBACK

Scale

1 : 200

**A1.222**

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**SHEET NOTES**

**GENERAL NOTES**

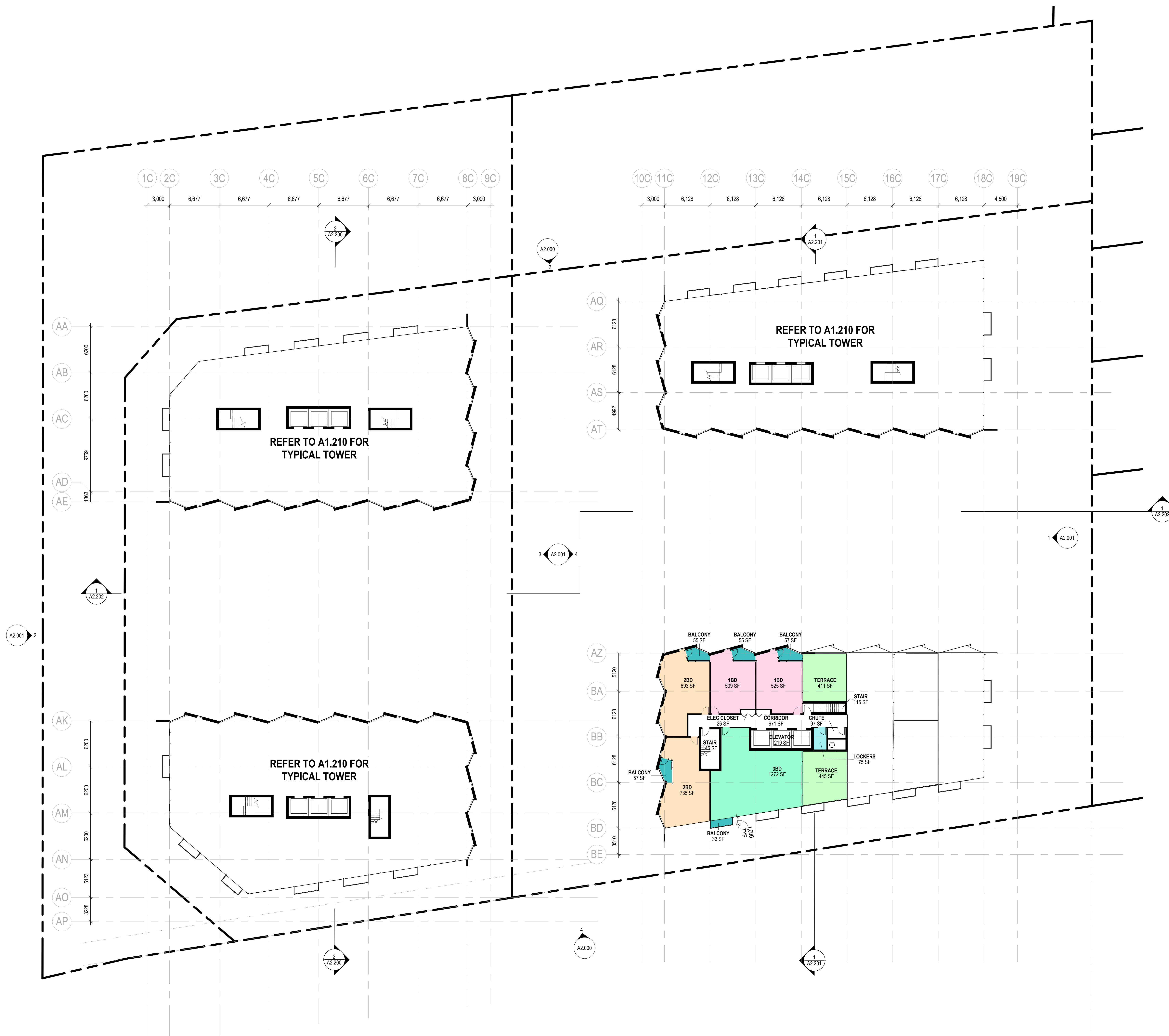
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**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



**SHEET NOTES**

**GENERAL NOTES**

Date	Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

LEVEL 23 - TOWER 4 STEPBACK

Scale

1 : 200

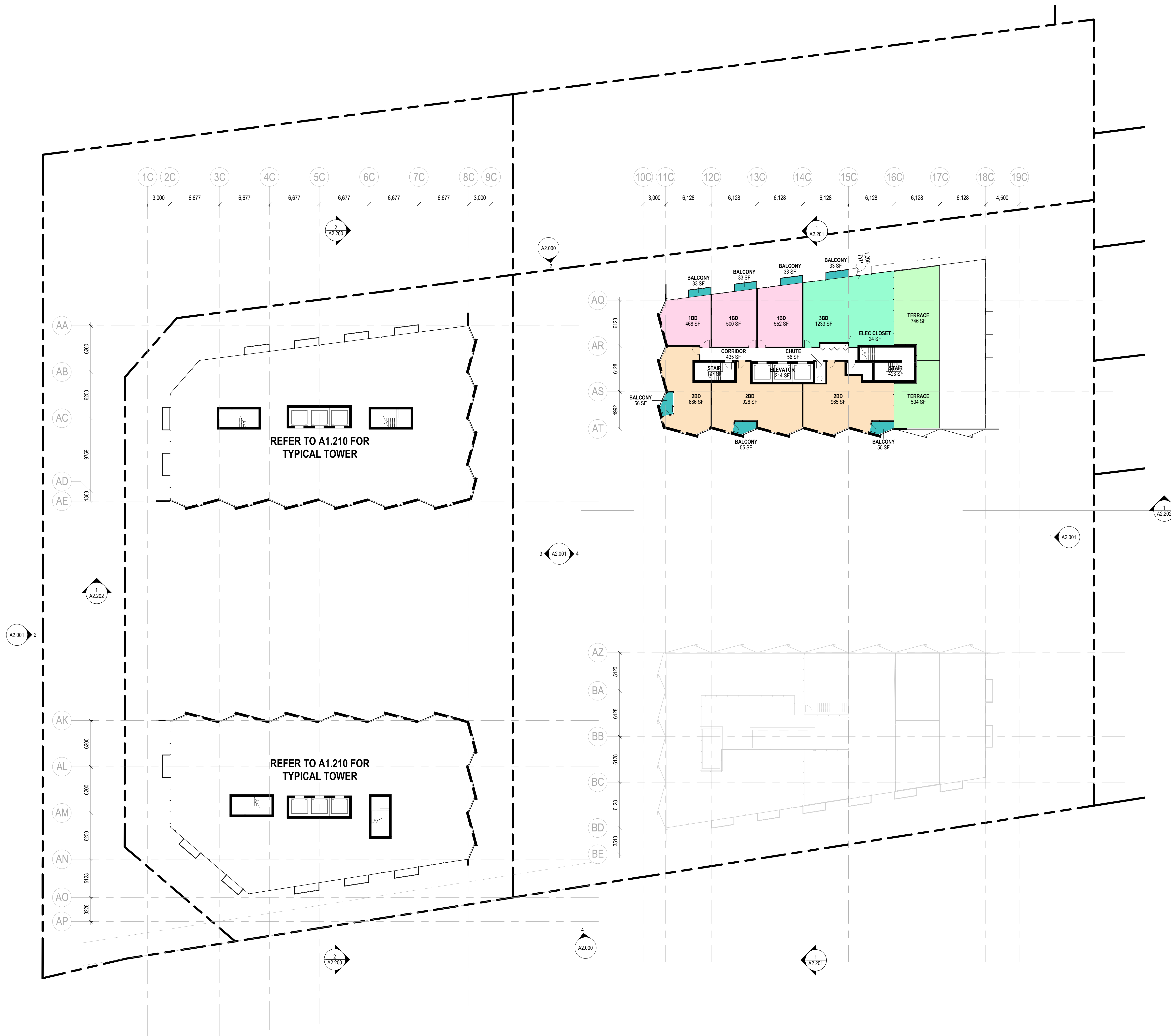
**A1.223**

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



**SHEET NOTES**

**GENERAL NOTES**

Date	Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

LEVEL 24 - TOWER 3 STEPBACK

Scale

1 : 200

**A1.224**

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890

Date	Description

Seal / Signature

Project Name  
CLARKSON GO

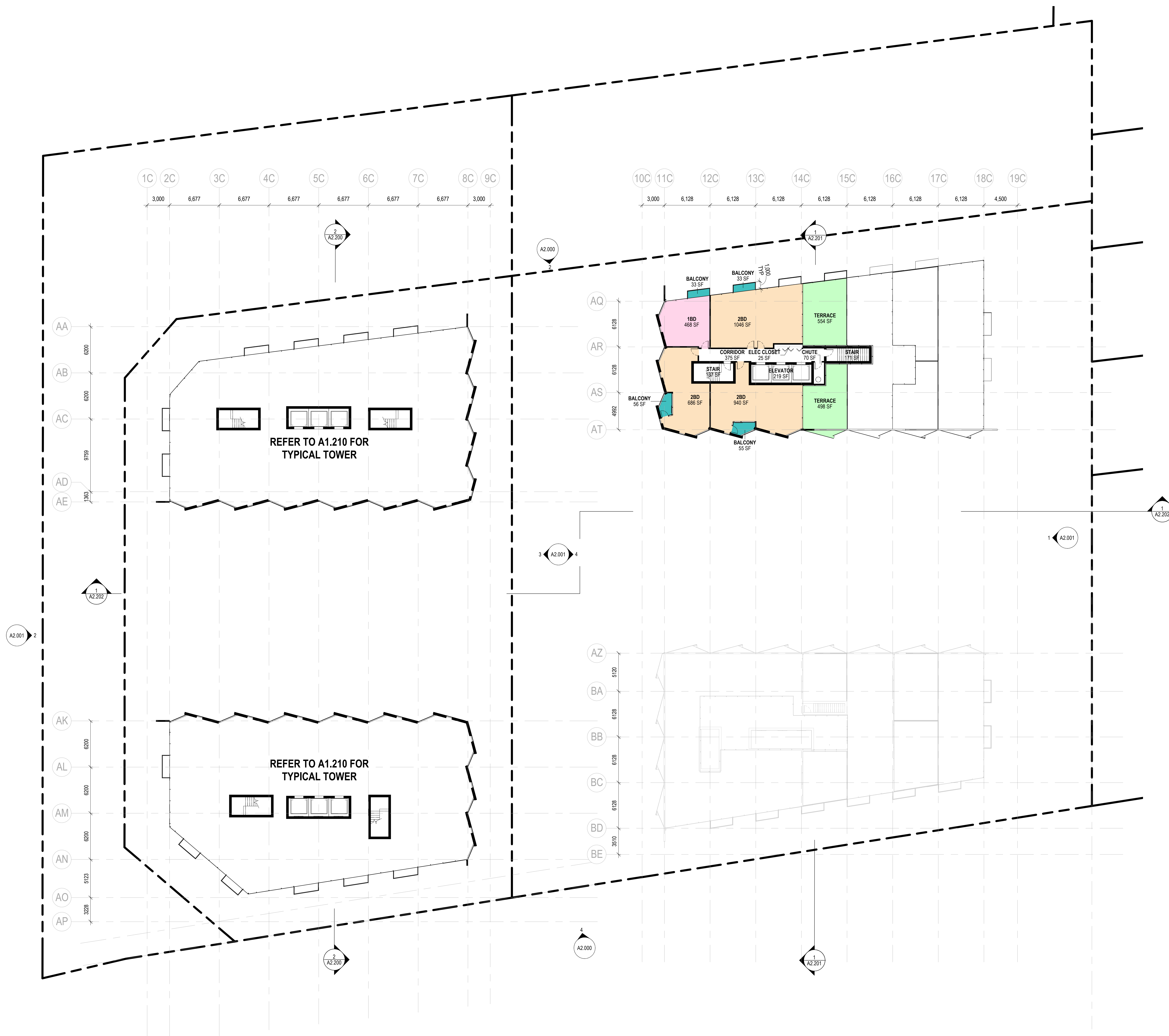
Project Number  
067.1245.000

Description  
LEVEL 25 - TOWER 3 STEPBACK

Scale  
1 : 200

**A1.225**

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**SHEET NOTES**

**GENERAL NOTES**

2022-11-22 11:22 AM BIM 360/067.1245.000 - Clarkson\_TB3 - 020sheetsets-67.1245.000-TB3-020.rvt

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890

Date	Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

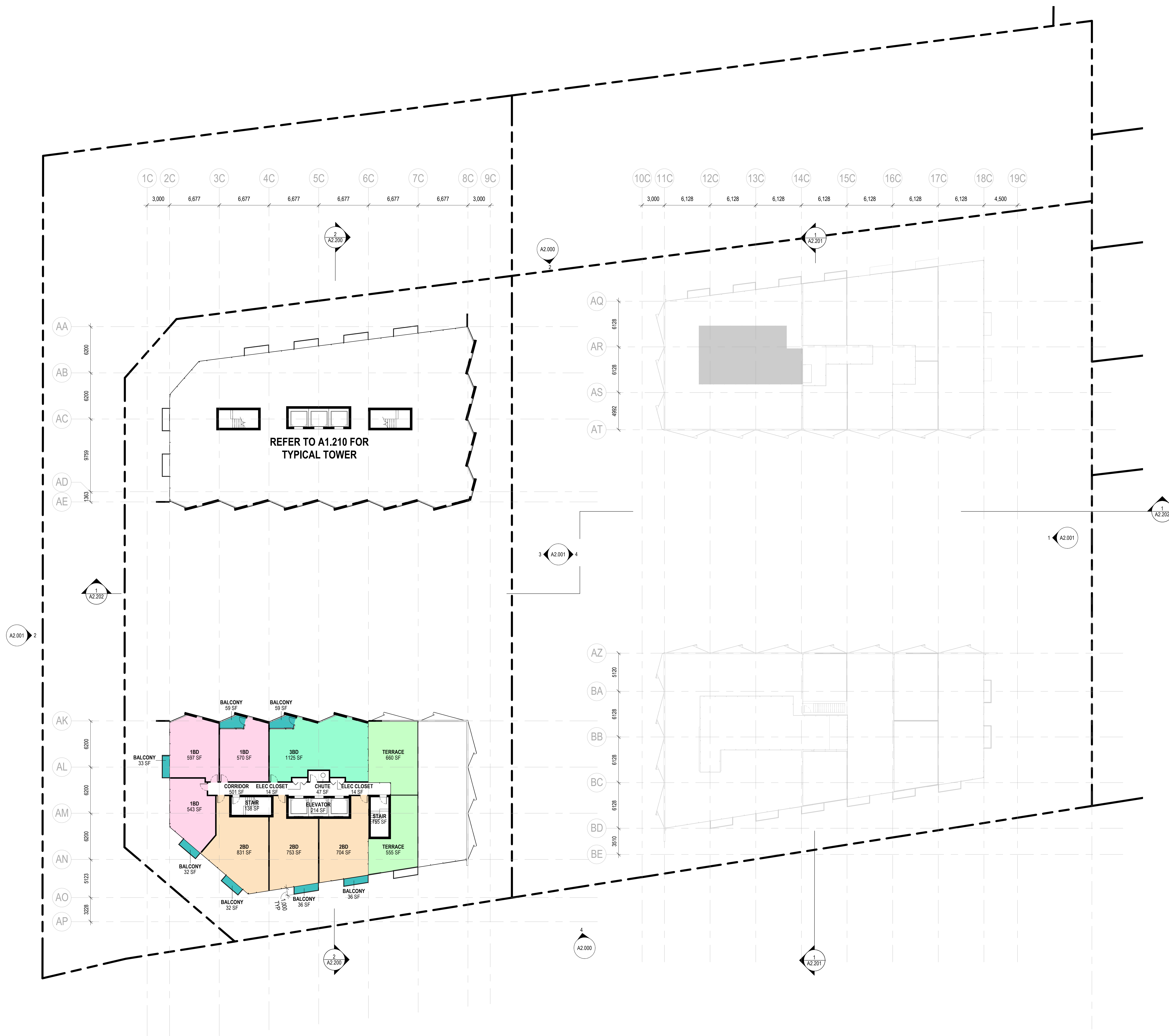
LEVEL 26 - TOWER 2 STEPBACK

Scale

1 : 200

**A1.226**

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**SHEET NOTES**

**GENERAL NOTES**

2022-11-22 11:25 AM: BIM 360/067.1245.000 - Clarkson GO - Clarkson GO - 020sheetset - 67.1245.000 - 26A - 020.rvt

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890

Date	Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

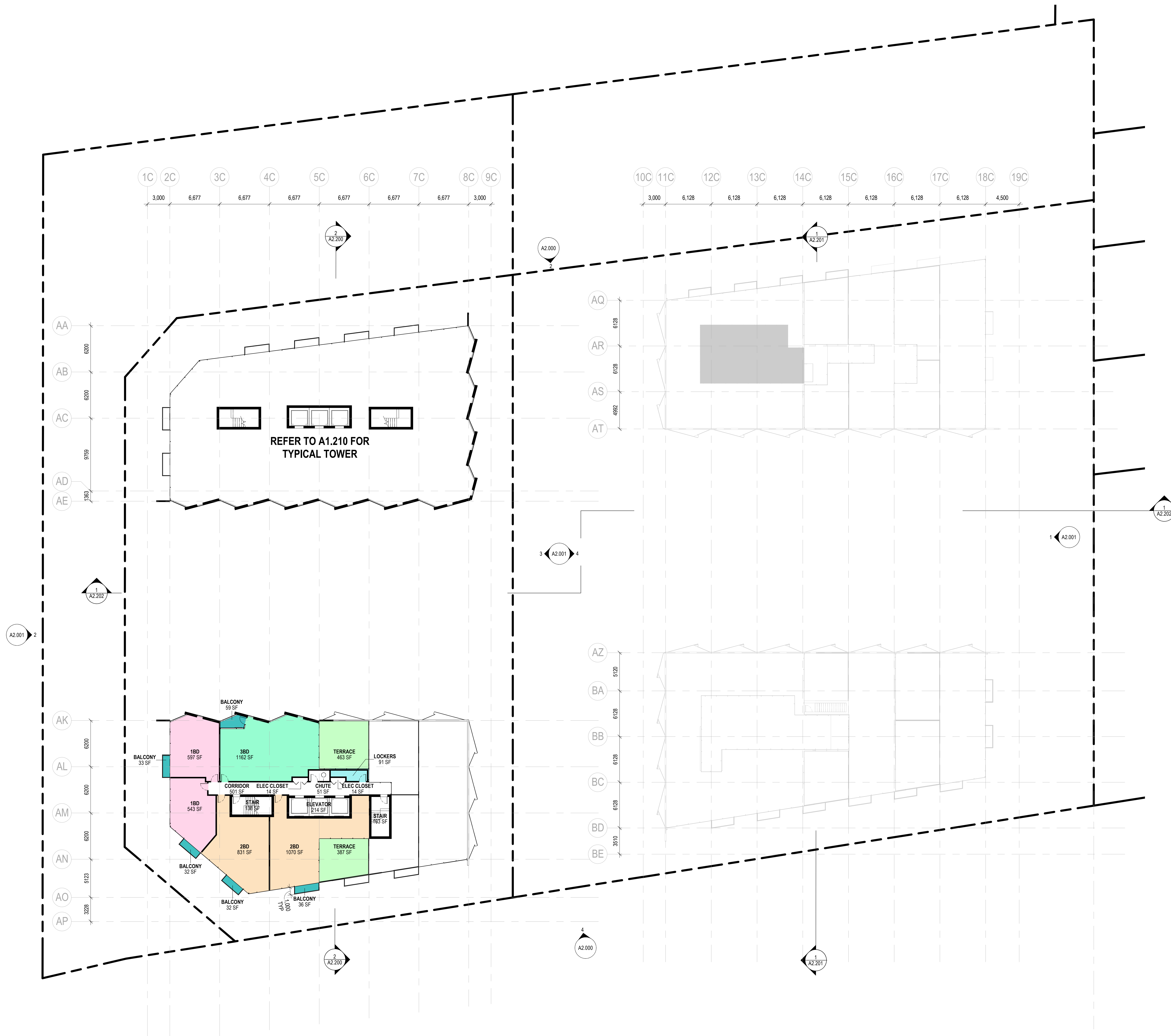
LEVEL 27 - TOWER 2 STEPBACK

Scale

1 : 200

**A1.227**

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**SHEET NOTES**

**GENERAL NOTES**

2022-11-22 11:57 AM - BIM 360/067.1245.000 - Clarkson\_T2A\_020sheetset-67.1245.000-27A\_020.rvt

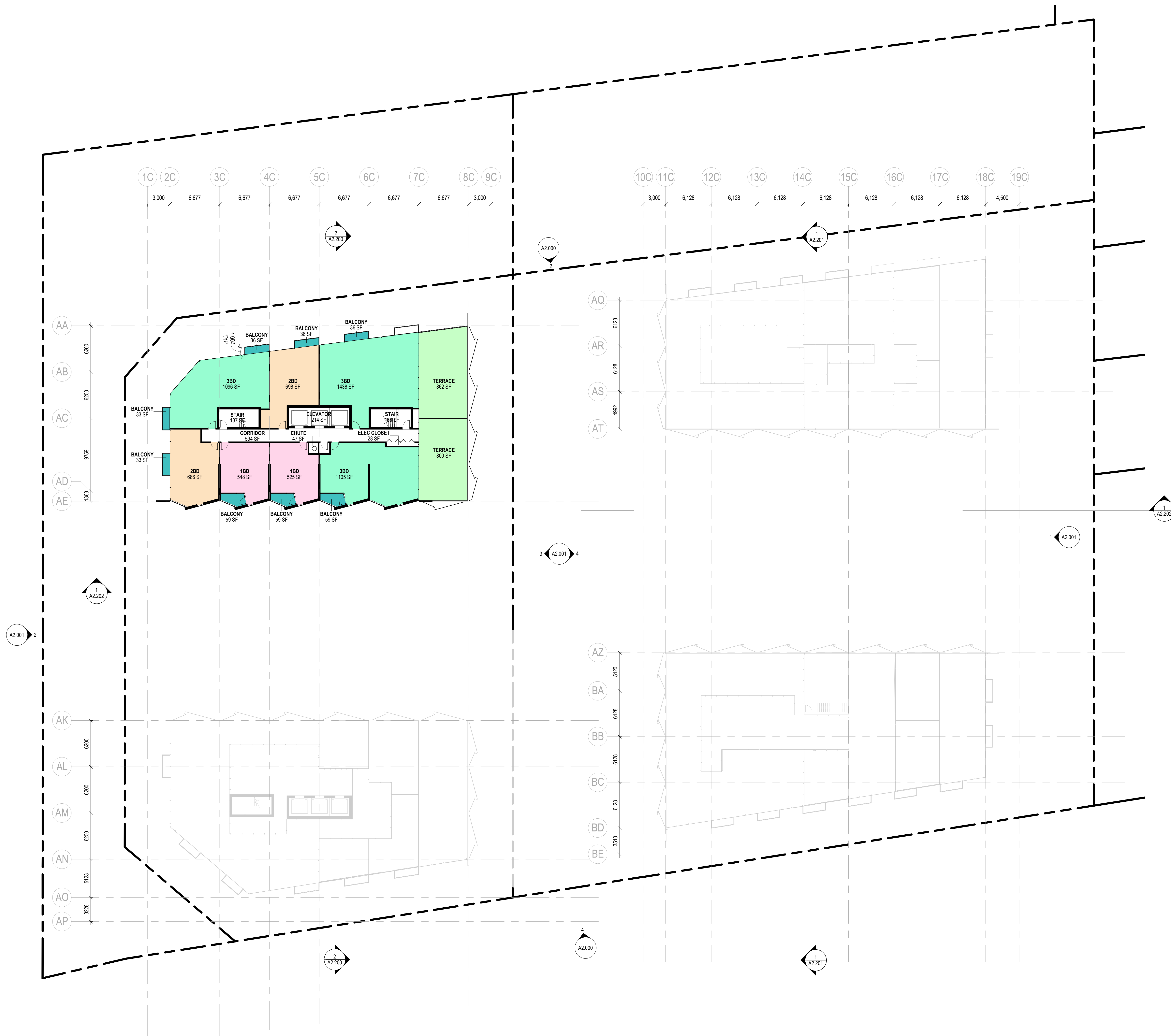


**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



**SHEET NOTES**

**GENERAL NOTES**

Date	Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

LEVEL 28 - TOWER 1 STEPBACK

Scale

1 : 200

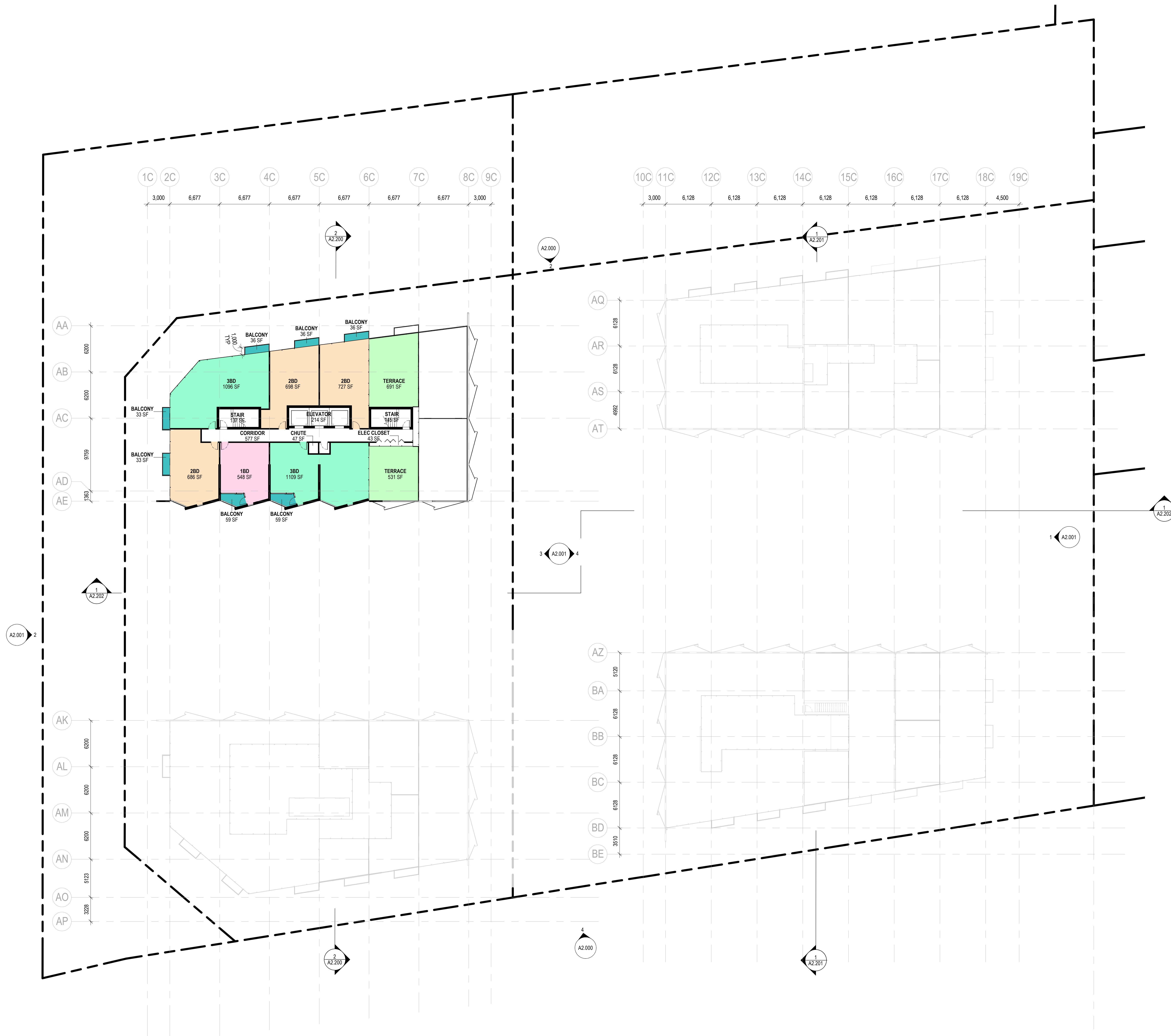
**A1.228**

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel: 416.601.3890



**SHEET NOTES**

**GENERAL NOTES**

Date	Description

Seal / Signature

Project Name

CLARKSON GO

Project Number

067.1245.000

Description

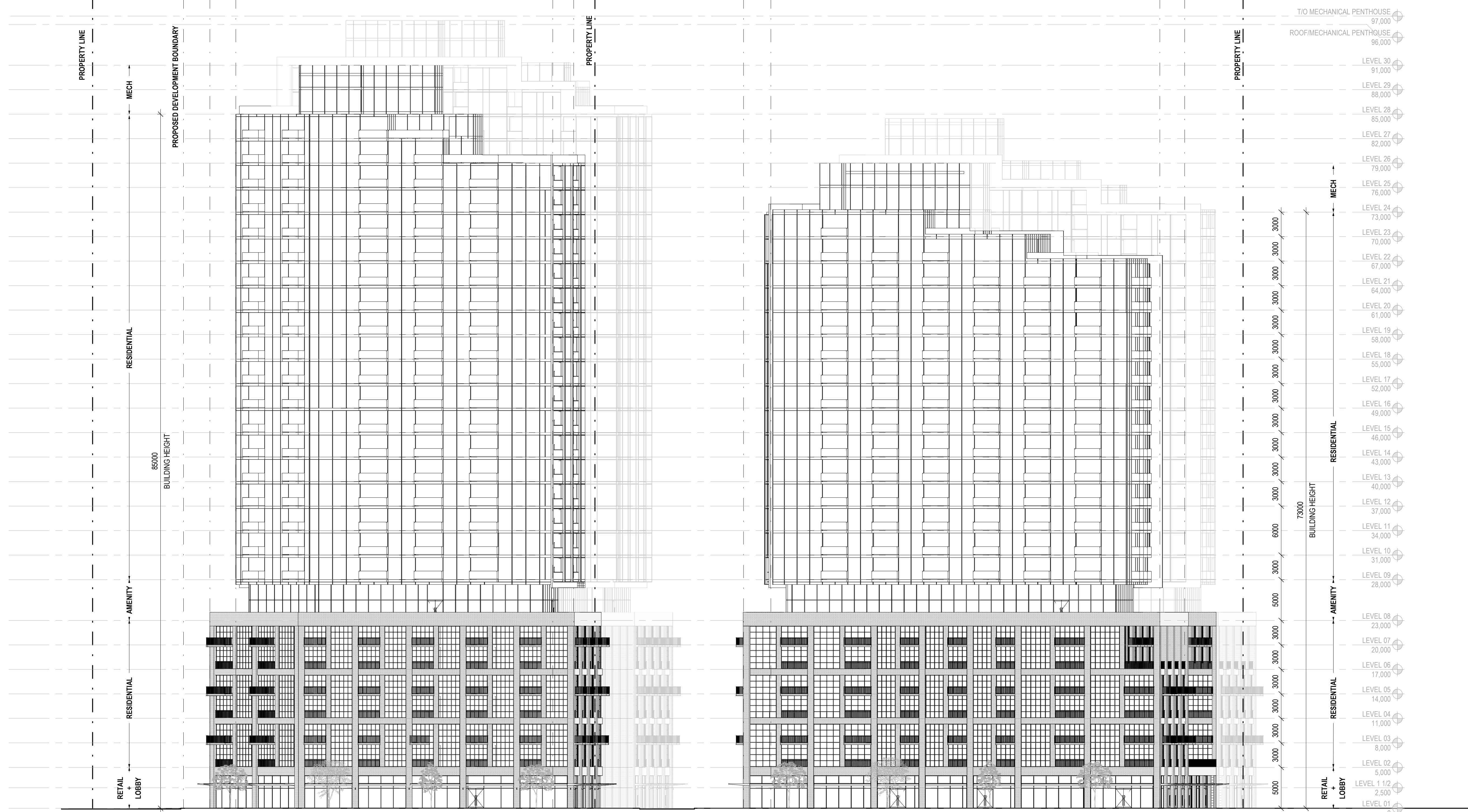
LEVEL 29 - TOWER 1 STEPBACK

Scale

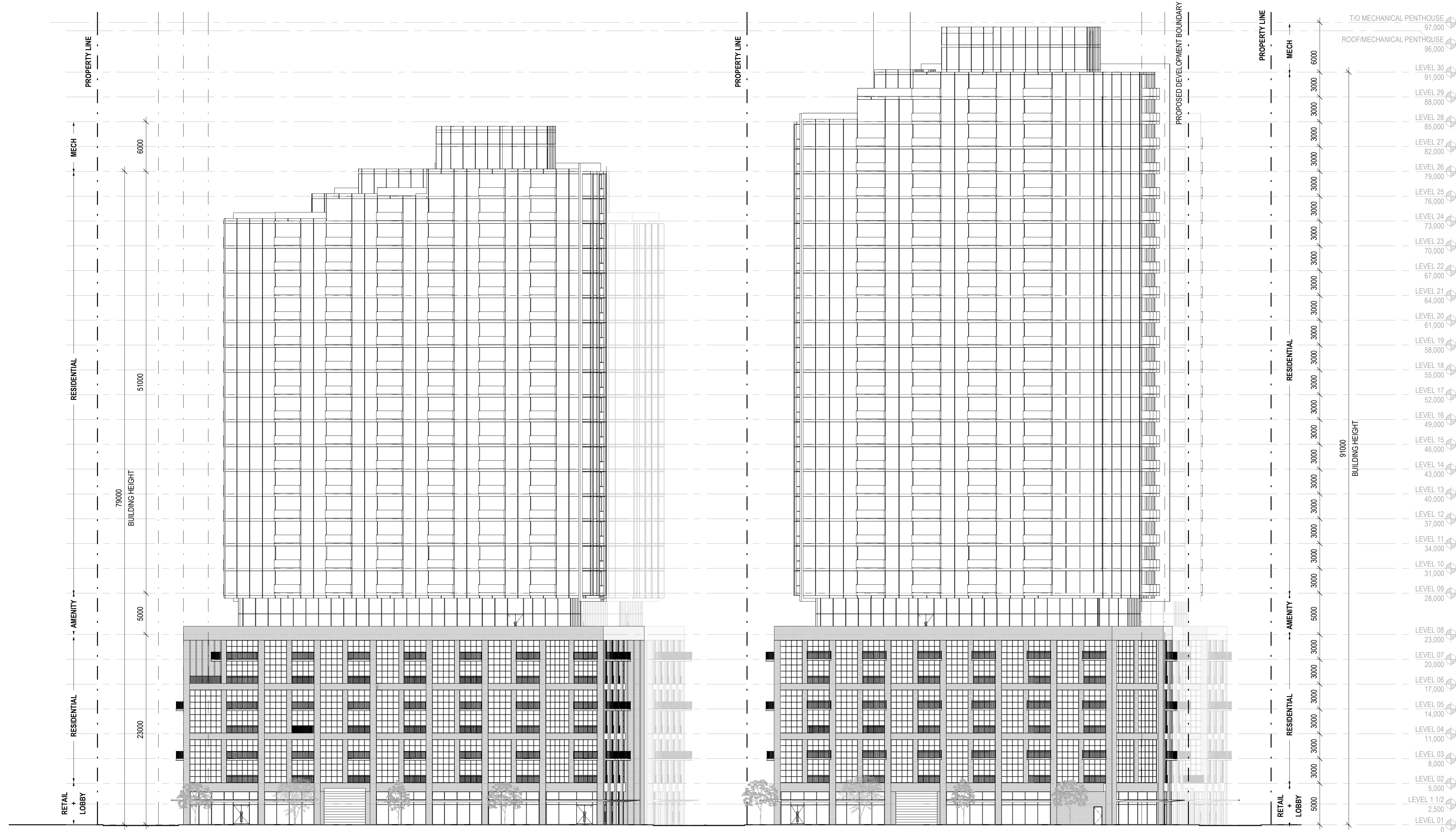
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**A1.229**

2022-11-22 11:42:42 AM BIM 360://067\_1245.000 - Clarkson\_BDA\_2020/Architects-671245.000 - BDA\_020.rvt



**4 SITE ELEVATION - S**  
SCALE: 1 : 250



**2 SITE ELEVATION - N**  
SCALE: 1 : 250

**SHEET NOTES**

**GENERAL NOTES**

**SLATE ASSET MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West Suite 1400 Toronto, Ontario M5H 1J9 Canada Tel 416.601.3890

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

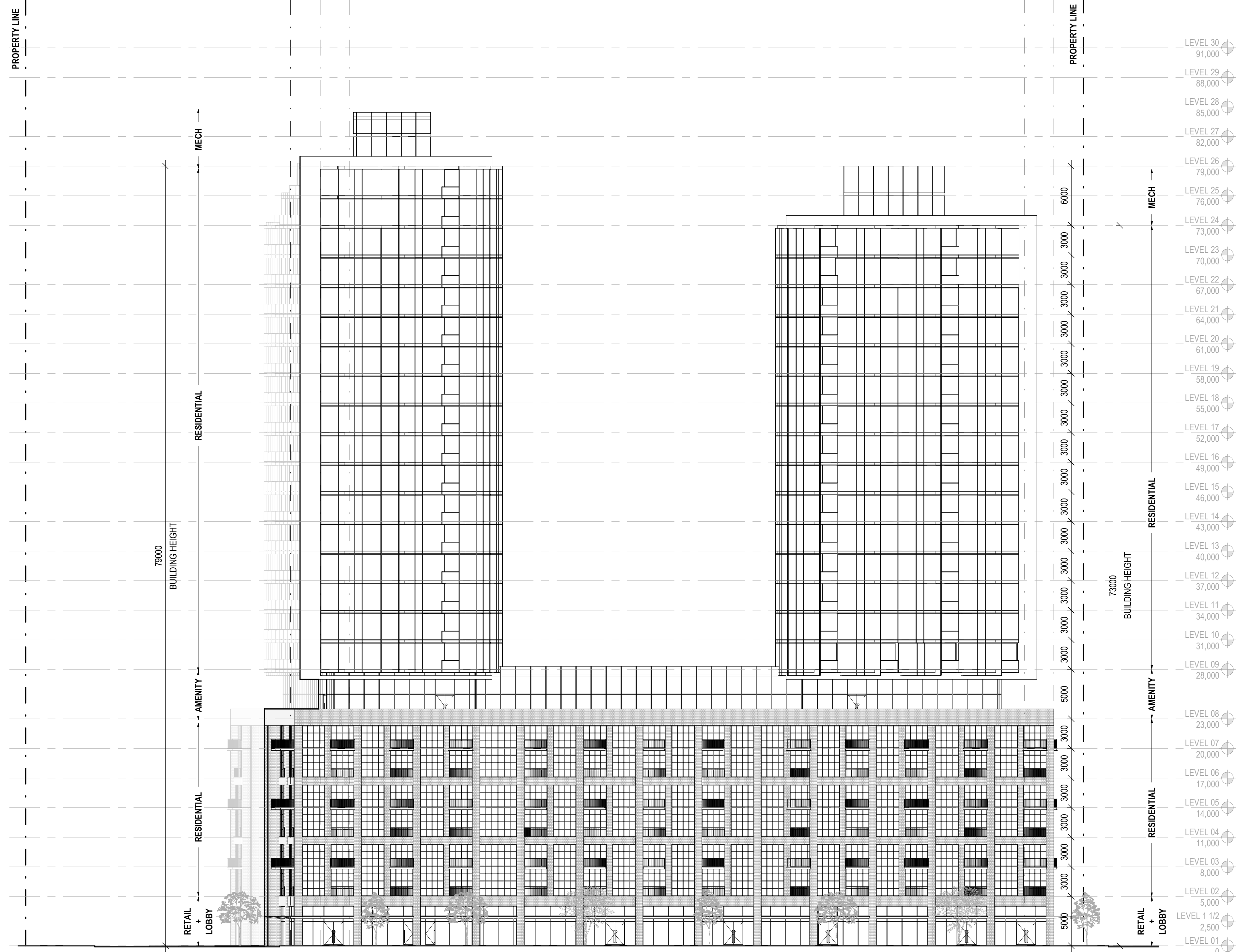
Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

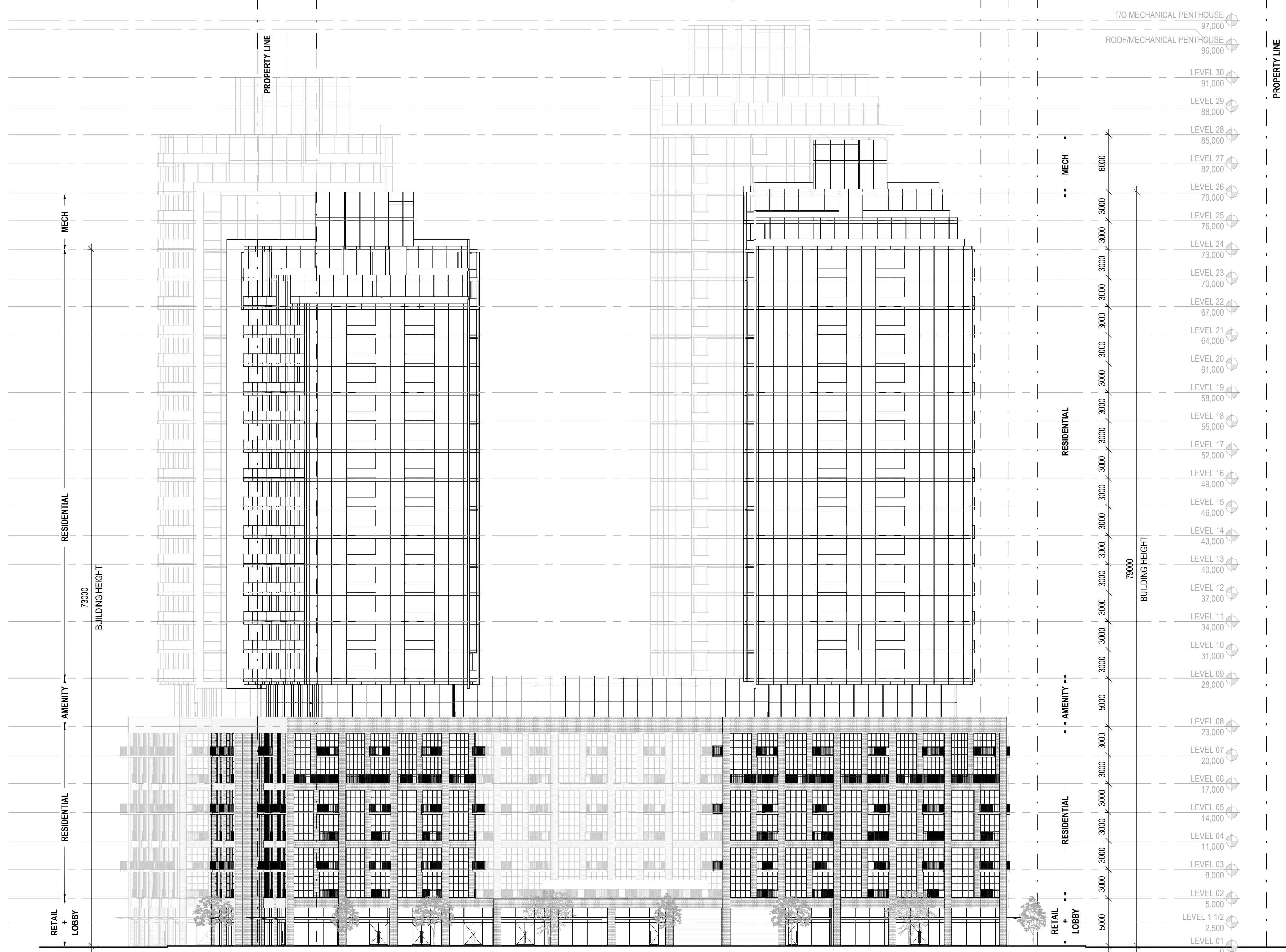
Description  
**BUILDING ELEVATIONS**

Scale  
1 : 250

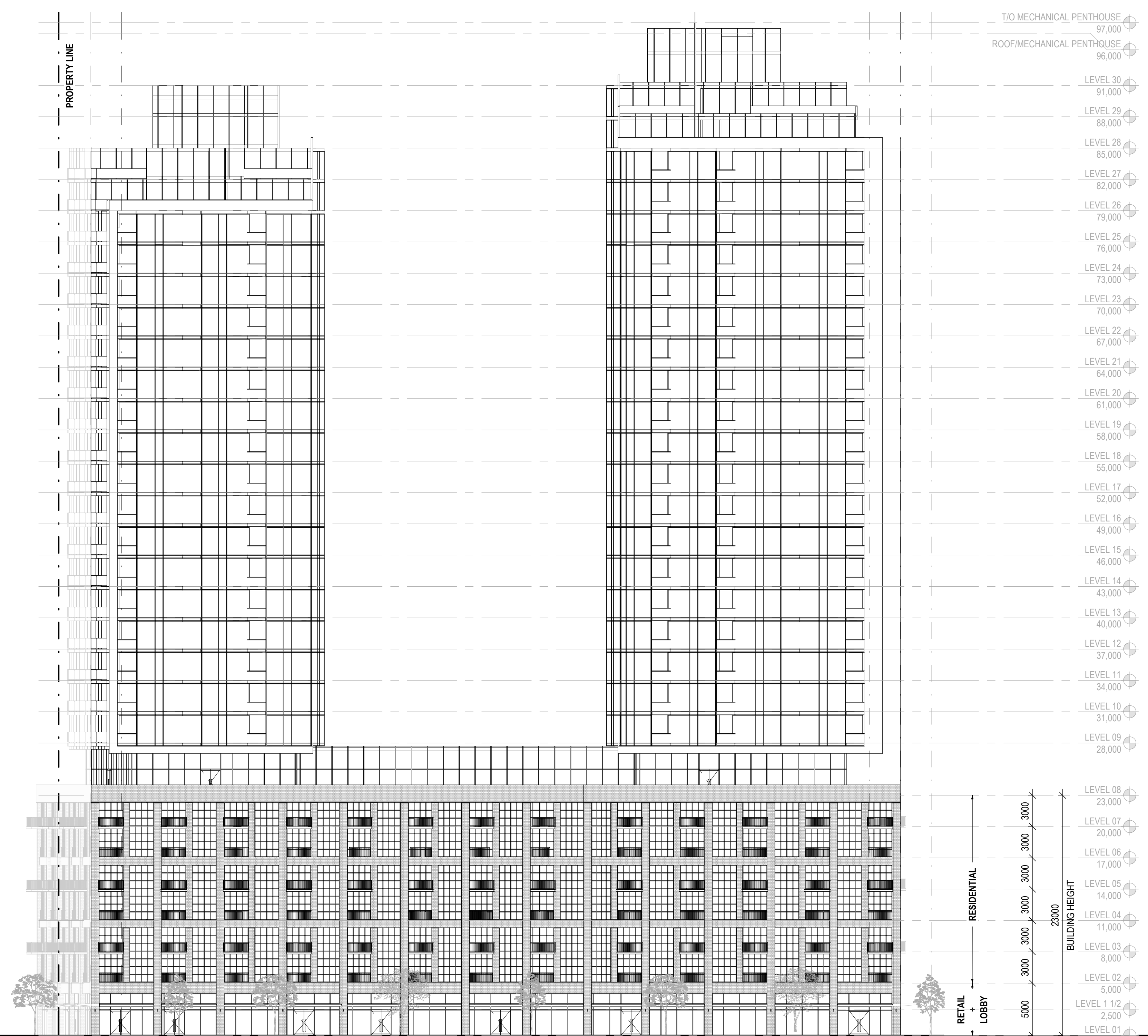
**A2.000**



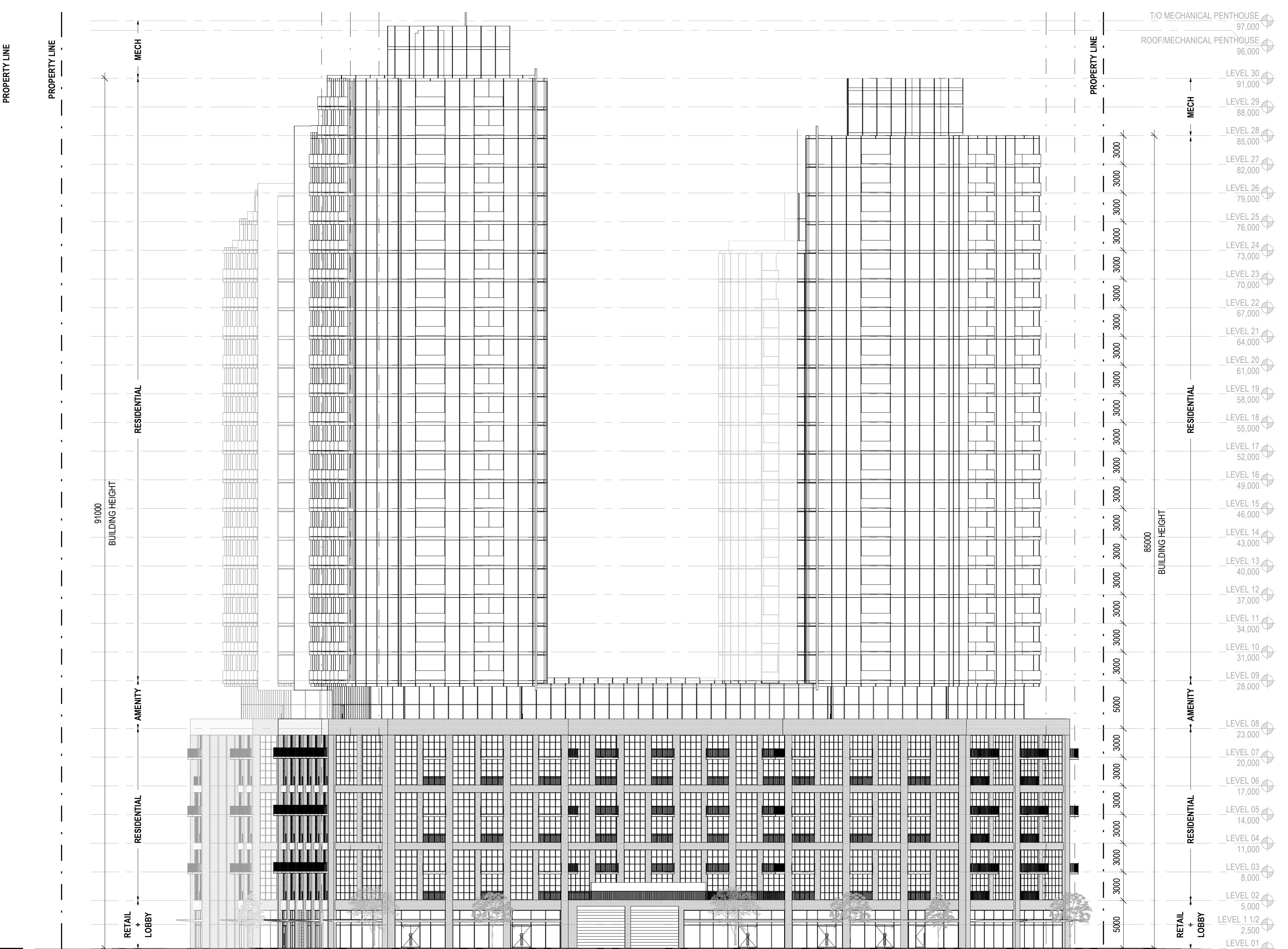
4 SITE ELEVATION - CENTRAL STREET E  
SCALE: 1:250



1 SITE ELEVATION - E  
SCALE: 1:250



3 SITE ELEVATION - CENTRAL STREET W  
SCALE: 1:250



2 SITE ELEVATION - W  
SCALE: 1:250

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**BUILDING ELEVATIONS**

Scale  
1:250

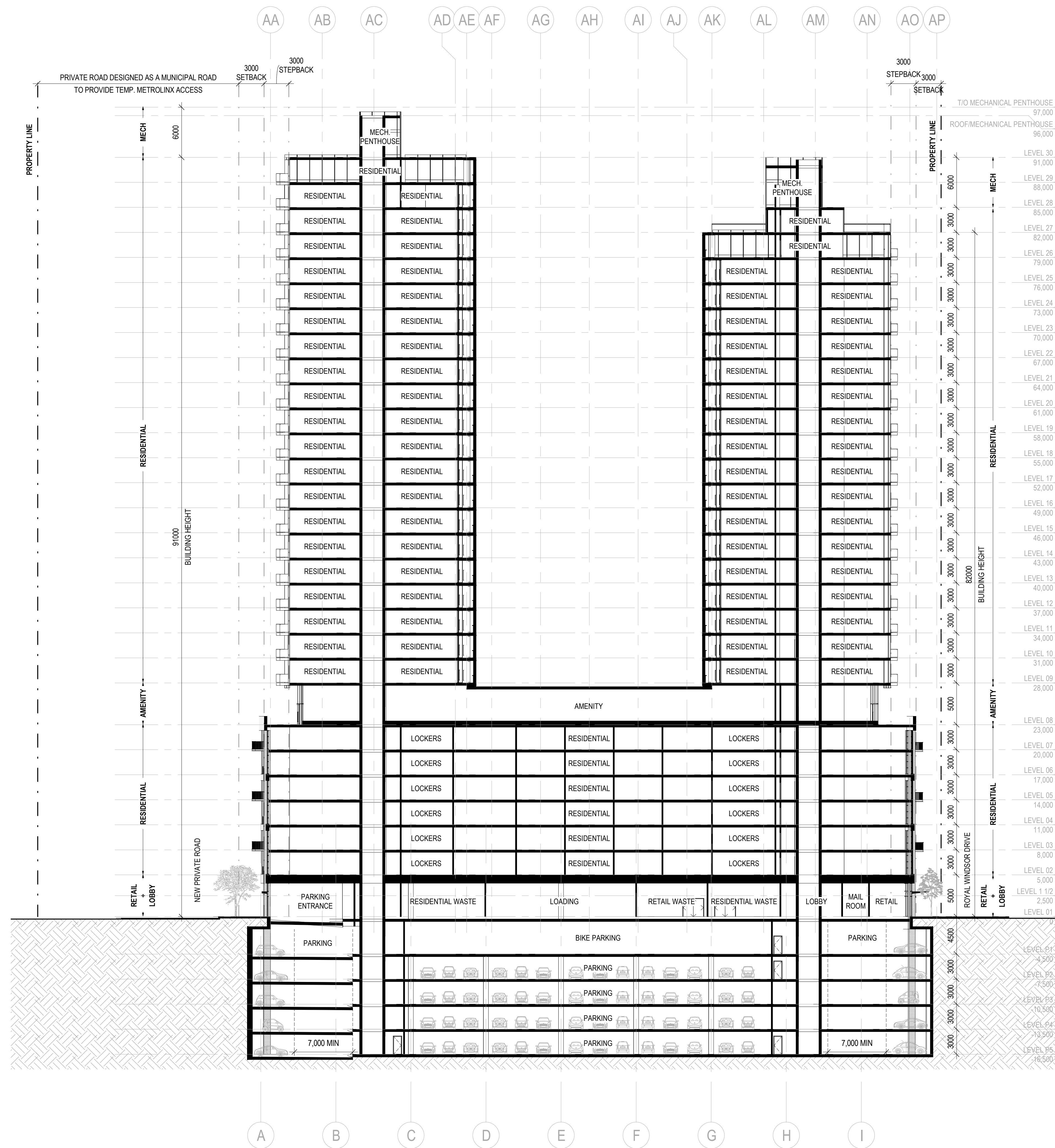
**A2.001**

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

150 King Street West  
Suite 1400  
Toronto, Ontario M5H 1J9  
Canada  
Tel 416.601.3890



**2 BUILDING SECTION - NS\_WEST SIDE**  
SCALE: 1/250

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**BUILDING SECTIONS**

Scale  
**1 : 250**

**A2.200**

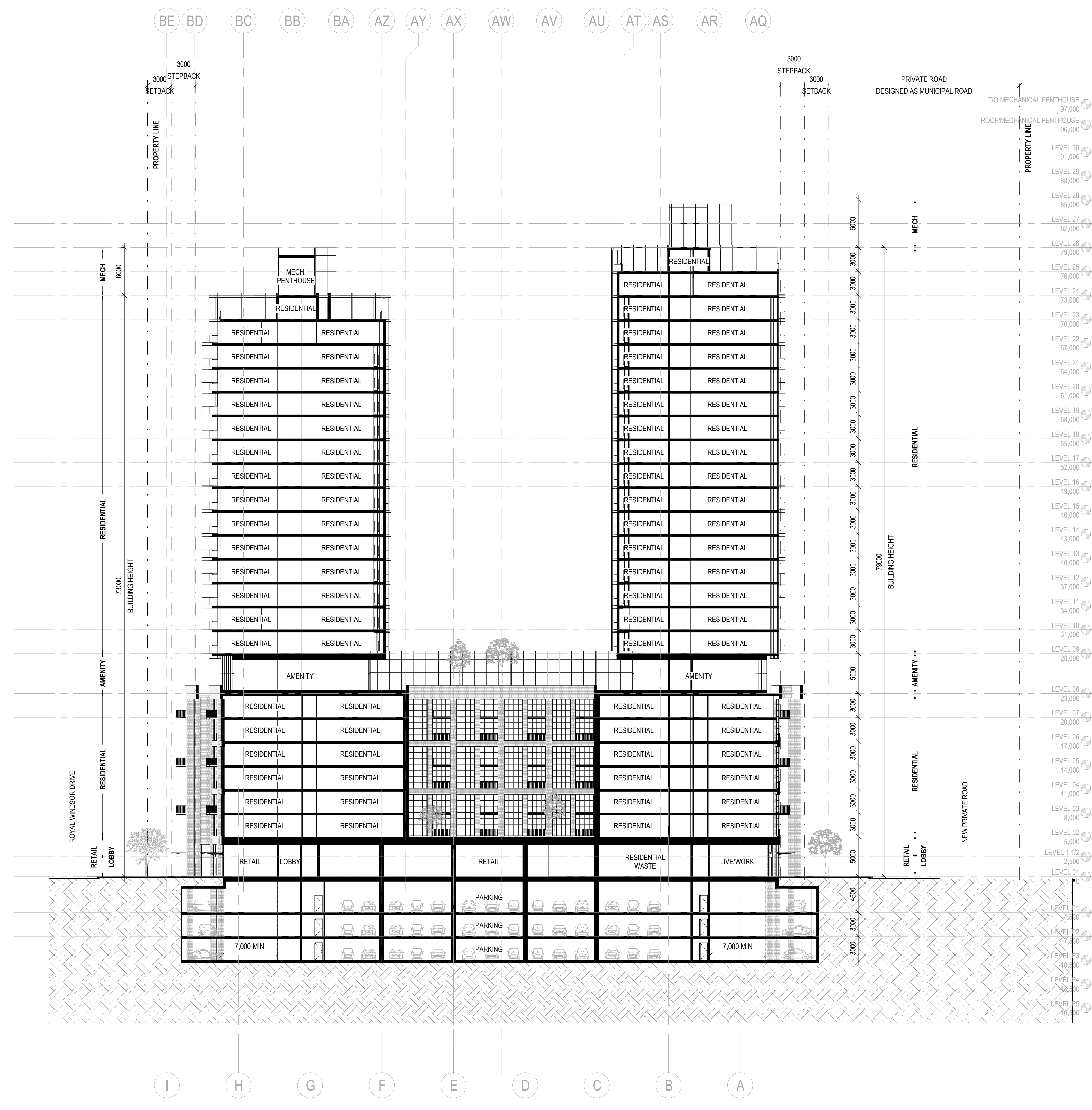
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**SHEET NOTES**

**GENERAL NOTES**

**KEY PLAN**

2022-11-22 11:52 AM BIM 360://067.1245.000 - Clarkson\_TB4\_2020/bimbaas-67.1245.000\_TB4\_020.rvt



**1 BUILDING SECTION - NS\_EAST SIDE**  
SCALE: 1 : 250

**SHEET NOTES**

**GENERAL NOTES**

**KEY PLAN**

Date	Description

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**BUILDING SECTIONS**

Scale  
1 : 250

**A2.201**

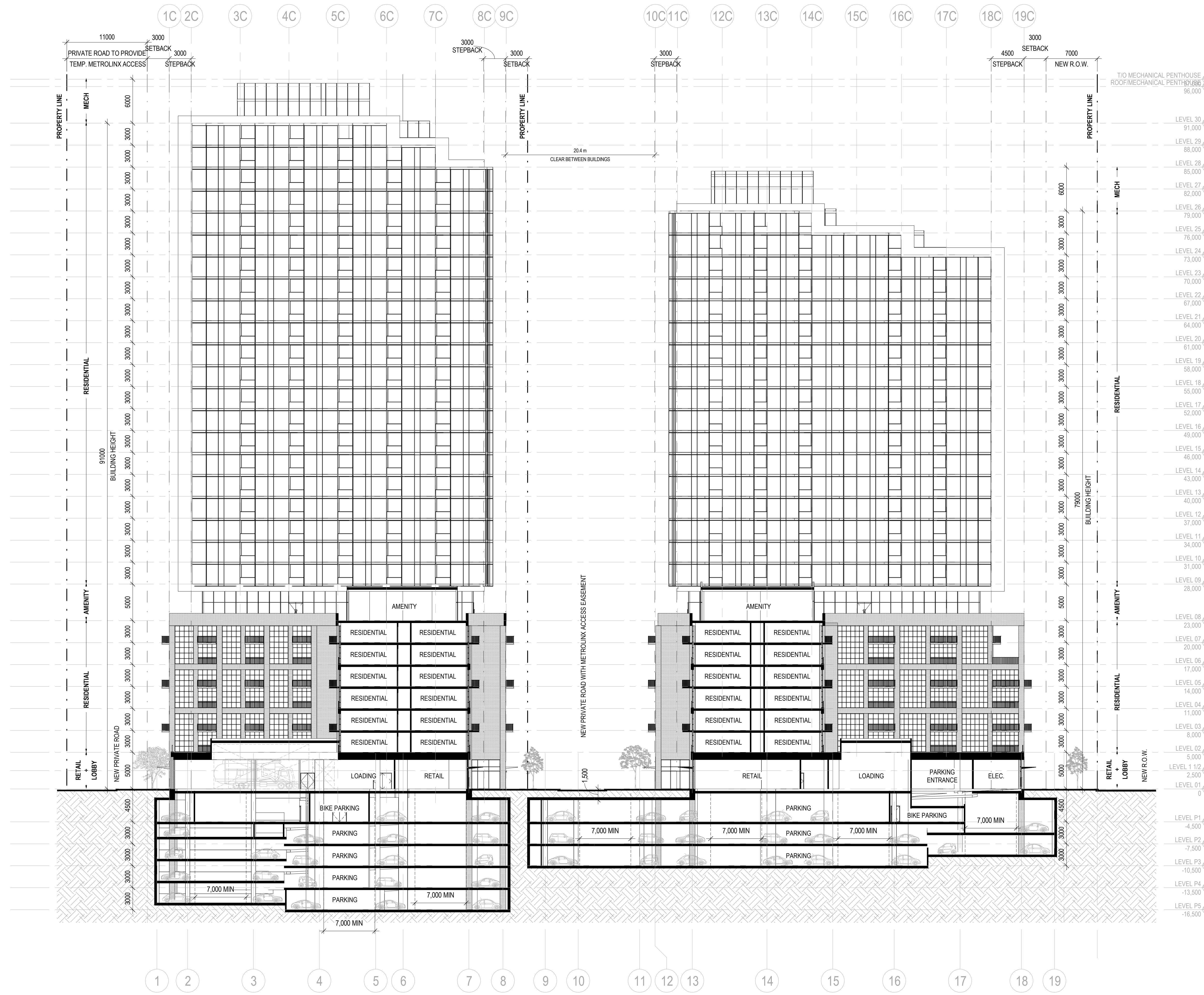
2022-11-22 11:54 AM - BIM 360/067.1245.000 - Clarkson GO - Clarkson GO - 2022/11/22 11:54 AM - BIM 360/067.1245.000 - Clarkson GO - 2022/11/22 11:54 AM - BIM 360/067.1245.000 - Clarkson GO - 2022/11/22 11:54 AM - BIM 360/067.1245.000 - Clarkson GO

**SLATE ASSET  
MANAGEMENT**

121 King St W  
Unit 200  
Toronto ON M5H 3T9

**Gensler**

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**1 EW SECTION THROUGH LOADING**  
SCALE: 1 : 250

Date	Description
1 2022-XX-X	ISSUED FOR REZONING

Seal / Signature

Project Name  
**CLARKSON GO**

Project Number  
**067.1245.000**

Description  
**BUILDING SECTIONS**

Scale  
**1 : 250**

**A2.202**

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**SHEET NOTES**

**GENERAL NOTES**

**KEY PLAN**

2022-11-22 11:53 AM BIM 360://067.1245.000 - Clarkson GO - 2022-11-22 11:53 AM - 067.1245.000 - 2022-11-22 11:53 AM