

CROSS REALTY LP

Noise Feasibility Study

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Introduction

1.0

1.2

1.1 Purpose and Objectives

Dillon Consulting Limited (Dillon) was retained by Cross Realty LP (the Developer) to complete a noise feasibility study as requested by Region of Halton for a proposed residential development located at 157 and 165 Cross Avenue in Oakville, Ontario. The proposed development is located on the north side of Cross Avenue, west of the Oakville GO station, and south of the Queen Elizabeth Way (QEW). This study has been completed in support of Zoning By-law Amendment application for the proposed development.

The noise feasibility study presented herein was prepared in accordance with the guidelines and requirements of the Region of Halton, Town of Oakville, the Ontario Ministry of Environment, Conservation and Parks (MECP) noise publication NPC-300, and MECP's land-use compatibility guidelines (D-series). This assessment focuses on the noise impacts from nearby transportation sources and stationary sources (i.e., nearby industrial operations) on the proposed development.

This noise feasibility study adheres to the Terms of Reference submitted to the Region of Halton. The Terms of Reference have been included in **Appendix A**.

The Project and Surrounding Areas

The proposed development is located at 157 and 165 Cross Avenue in Oakville, Ontario. The subject lands are currently occupied by a 1-storey commercial building and a 3-storey office building. The development is proposed to consist of the following two residential and commercial towers:

- Tower A 61 storeys with commercial space, office space, and residential units; and
- Tower B 45 storeys with commercial space, office space, and residential units.

Surrounding the proposed development are the following existing land uses:

- North Commercial and Office
- East Oakville GO Station
- South Residential and Commercial
- West Commercial

At the time of this assessment, the subject lands and the surrounding land uses are zoned Midtown Transitional Commercial (MTC) as per the Town of Oakville's Zoning By-Law 2014-014.

The subject site and surrounding area is shown in **Figures 1** and **2**. The plans for the proposed development are provided in **Appendix B**. The zoning map showing the subject lands and surrounding area is provided in **Appendix C**.



2.0 Transportation Noise Assessment

This section investigates noise impacts from nearby transportation sources on the proposed development.

The transportation noise sources with the potential to impact the proposed development include the following:

- Passenger rail traffic from GO Transit's Oakville Subdivision
- Freight and passenger rail traffic from Canadian National Railway's (CN) Oakville Subdivision
- Road traffic from Cross Avenue
- Road traffic from Trafalgar Road
- Road traffic from Queen Elizabeth Way

Impacts from rail and road were predicted and compared against the applicable criteria in the Ontario Ministry of Environment, Conservation and Parks (MECP) noise guideline publication, NPC 300 – Environmental Noise Guideline – Stationary and Transportation Sources – Approvals and Planning (2013) and the Region of Halton's Noise Abatement Guidelines. NPC-300 outlines noise level criteria for sensitive land uses, which assist in determining requirements for façade construction, ventilation requirements, warning clauses, and potential noise barriers for the proposed development.

2.1 Noise Criteria

The applicable transportation noise criteria, as outlined in Part C of NPC-300, is presented in **Table 1** through **Table 4**. **Table 1** summarizes the indoor sound level limits based on the type of space assessed, time of day, transportation noise source, and the maximum allowable equivalent sound levels from railway sources. The indoor noise levels are based on the assumption of closed windows and doors.

Table 1: Indoor Sound Level Limits for Road and Rail

Type of Space	Time Period	Equivalent Sound Level - L _{eq}		
Type of Space	rime Period	Road	Rail	
General offices, reception areas, retail stores, etc.	Daytime 07:00 - 23:00	50 dBA	45 dBA	
Living/dining areas of residences, hospitals, nursing homes, schools, daycares, etc.	Daytime 07:00 - 23:00	45 dBA	40 dBA	
Living/dining areas of residences, hospitals, nursing homes, etc. (except schools and daycares)	Night-time 23:00 - 07:00	45 dBA	40 dBA	
Sleeping quarters of residences	Daytime 07:00 - 23:00	45 dBA	40 dBA	



Town of Coope	Time Davied	Equivalent Sou	ent Sound Level - L _{eq}		
Type of Space	Time Period —	Road	Rail		
	Night-time 23:00 - 07:00	40 dBA	35 dBA		
Sleeping quarters of hotels	Night-time 23:00 - 07:00	45 dBA	40 dBA		

Table 2 outlines the maximum equivalent plane-of-window sound levels for road and rail where if exceeded, a detailed building component design assessment is required to ensure the indoor sound level limits (see **Table 1**) are achieved.

Table 2: Requirements for Building Component Assessment

Assessment	Time Deviced	Equivalent So	und Level - L _{eq}
Location	Time Period	Road	Rail ^[1]
Plane of window for	Daytime (07:00 - 23:00)	65 dBA	60 dBA
living area or sleeping quarters	Night-time (23:00 - 07:00)	60 dBA	55 dBA

Note: [1] Whistle noise is included for the building component and indoor noise assessment.

Table 3 summarizes potential noise warning clauses and ventilation requirements that should be used to warn of potential annoyance due to existing noise sources related to road and rail. Whistle noise is not included in the determination of warning clause requirements.

Table 3: Ventilation and Warning Clause Requirements for Road and Rail

Assessment Location	Time Period	Equivalent Sound Level - L _{eq} Road/Rail ^[1]	Ventilation and Warning Clause Requirements ^[2]
		≤ 55 dBA	No Requirement
Plane of window for living area or sleeping	Daytime (07:00 - 23:00)	> 55 dBA and ≤ 65 dBA	Provision for the installation of central air conditioning with a Type C warning clause
quarters		> 65 dBA	Installation of central air conditioning with a Type D warning clause
Plane of window for		≤ 50 dBA	No Requirement
living area or sleeping quarters	Nighttime (23:00 - 7:00)	> 50 dBA and ≤ 60 dBA	Provision for the installation of central air conditioning with a Type C warning clause



Assessment Location	Time Period	Equivalent Sound Level - L _{eq} Road/Rail ^[1]	Ventilation and Warning Clause Requirements ^[2]
		> 60 dBA	Installation of central air conditioning with a Type D warning clause

Note:

- [1] Whistle noise is not included in combined road/rail assessments for warning clause requirements.
- [2] Warning clause types and requirements are provided in **Appendix D**.

The applicable noise criteria for Outdoor Living Areas (OLAs) specific to surface transportation are presented in **Table 4**. If the 16-Hour Equivalent Sound Level (Leq 16hr) at an OLA is greater than 55 dBA and less than or equal to 60 dBA, noise control measures may be applied to reduce the sound level to 55 dBA. Otherwise, prospective purchasers or tenants should be informed of potential elevated noise levels by way of warning clause Type A. For a Leq 16h of greater than 60 dBA, noise mitigation measures are required to reduce the noise levels to 55 dBA or less. Whistle noise is not included in the determination of the rail outdoor sound level.

Table 4: OLA Level Limits for Road and Rail Noise

Assessment Location	Equivalent Sound Level - L _{eq} 16hr ^{[1],[2]} Road/Rail	Noise Control Measures and Warning Clause Requirements
	≤ 55 dBA	No requirement
Outdoor Living Area	> 55 dBA and ≤ 60 dBA	Installation of noise control measure OR a Type A warning clause [1]
	> 60 dBA	Installation of noise control measure with a Type B warning clause

Notes:

- [1] Daytime only (07:00 23:00)
- [2] Whistle noise is not included in assessment of rail noise for warning clause requirements.

2.2 Transportation Sources

In assessing potential transportation noise impacts on the proposed development, rail and road traffic noise sources in proximity to the proposed development were considered. The surrounding area was reviewed for airport facilities with potential to have aircraft noise impacts on the proposed development. It was determined that aircraft noise impacts are not expected on the proposed development.

All traffic data used in modelling road and rail traffic is included in Appendix E.



Road Noise Sources

The following road noise sources are located in proximity to the proposed development:

- Cross Avenue 10 m southeast of proposed development
- Trafalgar Road 300 m northeast of proposed development
- Queen Elizabeth Way 178 m northwest of proposed development

Road traffic information for Cross Avenue was determined from the Town of Oakville's Traffic Volumes Map. It was determined that Cross Avenue had an annual average daily traffic (AADT) of 15,200 in 2018. An annual growth rate of 2% was assumed for Cross Avenue. A 90% and 10% split for daytime and nighttime traffic volumes was assumed for Cross Avenue. Truck percentages were determined based on turning movement counts for Cross Avenue and Trafalgar Road. Medium and heavy trucks percentage were conservatively assumed to be equal.

Road traffic information for Trafalgar Road was based on the ultimate average daily traffic of the roadway, described by the Region of Halton. Dillon obtained traffic information from recent noise studies completed in the area. A 90% and 10% split for daytime and nighttime traffic volumes was assumed for Trafalgar Road. Medium and heavy trucks percentage were each conservatively assumed to be 4.5%.

Road traffic information for the Queen Elizabeth Way was based on an information request response from the Ministry of Transportation. The Queen Elizabeth Way had an AADT of 219,100 in 2021. The Ministry of Transportation provided an annual growth rate of 3.2% and a truck percentage of 9%. It was assumed that medium and heavy trucks were equally distributed.

The forecasted future (2034) road traffic data is presented in **Table 5**.

Table 5: Future (2034) Road Traffic Data

Roadway	2034 AADT	Medium Trucks (%)	Heavy Trucks (%)	Speed (km/h)
Cross Avenue	20,866	4.5	4.5	50
Trafalgar Road	55,000	4.5	4.5	50/60 ^[1]
Queen Elizabeth Way	329,973	4.5	4.5	100

Notes: [1] Trafalgar Road posted speed limit changes from 50 km/h to 60 km/h north of South Service Road East.



Rail Noise Sources

The GO Transit and CN Oakville Subdivisions are located approximately 180 m southeast of the proposed development.

CN provided rail traffic information for the CN Oakville Subdivision. CN's daily passenger and freight rail traffic was projected for the year 2034, based on a per annum growth of 2.5%. Engine warning whistle may still be sounded in cases of emergency or warning precaution at station locations and pedestrian crossings.

Metrolinx provided rail information for the GO Expansion Program, which described the future daily train volumes for diesel and electric locomotive trains. Per the request of Metrolinx, all electric locomotives were conservatively assessed as diesel locomotives.

Anti-whistling by-laws are in effect at at-grade crossing in proximity to the proposed development, therefore rail whistles were not assessed as a noise source. GO trains were observed to operate a warning bell when approaching the Oakville GO station. The warning bells are determined to be a safety device and are exempt from rail noise assessments.

Rail traffic data used in this assessment has been presented in **Table 6**.

Table	6: 1	Future	Rail	Traffic	Data
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Rail	Train	Daytime and Evening (07:00-23:00)		Nighttime (23:00-07:00)		Speed [km/h]
Operator	Туре	Locomotives	Cars	Locomotives	Cars	
CN	Passenger	37	184	0	0	153
	Way Freight	16	98	21	131	96
GO Transit	Passenger	354	4248	54	648	129

2.3 Predicted Sound Level

The noise analysis was completed using Cadna/A, a noise propagation software. The Cadna/A software includes the implementation of the Transportation Noise Model (TNM) roadway algorithms, as well as the Federal Transit Administration/Federal Railroad Administration (FTA/FRA) railway algorithms. The model is capable of incorporating various site specific features, such as elevation, berms, absorptive grounds, and barriers to accurately predict noise levels at specific receptors, pertaining to noise emissions from a particular noise source. The model accounts for reduction in sound level due to increased distance and geometrical spreading, air absorption, ground attenuation, and acoustical shielding by intervening structures and topography. The model is considered conservative as it represents atmospheric conditions that promote propagation of sound from source to receptor.

Railway Analysis



The railway noise impact assessment was conducted using the FRA algorithm using Cadna/A. STEAM, utilized through STAMSON Version 5.04 was not used in the assessment due to the complexity of the proposed development and the surrounding area. Based on Dillon's experience using FRA and STEAM in rail noise assessments, the results of the FRA algorithm are within an acceptable range of accuracy. The rail noise model inputs are outlined in **Section 2.2**.

Roadway Analysis

The assessment for roadway impact noise was completed using the TNM algorithm, developed by the Federal Highway Administration (FHWA), implemented through Cadna/A. ORNAMENT, utilized through STAMSON Version 5.04 was not used in the assessment due to the complexity of the proposed development and the surrounding area. Based on Dillon's experience using TNM and ORNAMENT in road noise assessments, the results of the ORNAMENT algorithm are within an acceptable range of accuracy. The road noise model inputs are outlined in **Section 2.2**.

Sensitive Receptor Locations

For the purposes of this study, the Building Evaluation feature was used in Cadna/A to assess the façade impacts throughout the proposed development. Based on the architectural plans, the following Outdoor Living Areas (OLAs) were identified which require assessment for transportation noise impacts:

- 2nd Floor Outdoor Amenity Area; and
- 3rd Floor Outdoor Amenity Area.

The private balconies of the proposed development are less than 4 m in depth, and therefore are not considered OLAs per MECP NPC-300.

Transportation Noise Impacts - Plane of Window

Table 7 summarizes the predicted building façade noise levels from transportation noise sources at the sensitive receptors within the proposed development.



Table 7: Combined Road and Rail Noise Prediction Summary Table - Facade Impacts

	Equivalent Sound Level - L _{eq} ^{[1],[2]} [dBA]							
Receptor	Road	Road Impacts		Railway Impacts		Combined Road and Rail ^[3]		
	Daytime	Nighttime	Daytime	Nighttime	Daytime	Nighttime		
Building A								
Northeast	72	66	67	62	72	66		
Façade								
Building A								
Southeast	71	66	69	65	71	66		
Façade								
Building A								
Southwest	73	67	65	60	73	67		
Façade								
Building A								
Northwest	74	68	60	56	74	68		
Façade								
Building B								
Northeast	72	66	65	61	72	66		
Façade								
Building B								
Southeast	68	63	67	62	68	63		
Façade								
Building B								
Southwest	73	67	63	58	73	67		
Façade								
Building B								
Northwest	75	68	56	51	75	68		
Façade								

- Notes: [1] L_{eq} represents maximum predicted impacts along façade.
 - [2] Predicted noise levels that exceed the applicable limits are presented in **bold**.
 - [3] Combined impacts may not be equal to road plus rail, as maxima may be in different locations along the façade.

The predicted transportation sound levels for combined road and rail impacts at the building façades of the proposed development are presented in Figures 3 and 4 for the daytime and nighttime periods, respectively.

Transportation Noise Impacts – Outdoor Living Area

Table 8 summarizes the predicted building façade noise levels from transportation noise sources at the sensitive receptors within the proposed development.



Table 8: Combined Road and Rail Noise Prediction Summary Table - OLA Impacts

Receptor	Daytime Equivalent Sound Level – L _{eq} [1]
Level 2 East OLA	62
Level 2 West OLA	68
Level 3 OLA	69

Notes: [1] Predicted noise levels that exceed the applicable limits are presented in **bold**.

Noise Control Measures

2.4

Façade Construction Recommendations

Based on the predicted façade sound levels shown in **Table 7**, and the threshold criteria outlined in **Table 2**, a detailed building component design analysis is required throughout the proposed development to ensure the indoor sound level criteria is met (outlined in **Table 1**).

Indoor sound levels, and the building component analysis were completed using the National Research Council's (NRC) Building Practice Note 56 (BPN56). BPN56 is the method for selecting appropriate STC ratings for the façade and glazing components to control impacts from transportation noise sources, and satisfy indoor sound level criterion.

Results from an initial building component analysis are shown in **Table 9**. As detailed floor plans were not available at the time of this study, typical unit layouts were assumed. Overall window STC requirements were determined using the combined (logarithmic addition) requirements from the individual transportation noise impacts from locomotive, wheel, and roadway noise. STC calculations were completed for daytime and nighttime periods, with the worst-case requirement selected for recommendation. The BPN56 analysis is presented in **Appendix D**.

Table 9: Building Component Analysis Using Maximum Impacts

Duilding	Maximum Required Glazing (STC)		
Building	Living/Dining Area	Sleeping Quarters	
Building A Northeast Façade	37	35	
Building A Southeast Façade	37	36	
Building A Southwest Facade	36	35	
Building A Northwest Façade	37	36	
Building B Northeast Façade	36	35	
Building B Southeast Façade	34	33	
Building B Southwest Façade	36	34	
Building B Northwest Façade	37	35	

The above mentioned STC ratings are conservatively calculated and represent the recommended minimum STC ratings for the windows. Windows should be carefully selected to ensure the entire



assembly (frame and glazing) meets the specified minimum STC ratings. It is recommended that manufacturer tests and specifications be reviewed by an Acoustical Consultant upon selection.

Sensitive spaces located on corners of buildings, which have multiple façade exposure and potential contribution from multiple sources may require an STC increase of 3. As the design progresses, the façade and glazing requirements should by reviewed by an Acoustical Consultant, ideally at the Site Plan Approval (SPA) stage, to confirm or update the above recommended STC ratings.

Ventilation Requirements and Warning Clauses

Based on the predicted façade sound levels shown in **Table 7**, and the threshold criteria outlined in **Table 3**, all dwellings of the proposed development will require installation of central air conditioning and a Type D warning clause.

Additionally, CN and Metrolinx require that a warning clause regarding the potential for noise and vibration impacts be applied to all sensitive locations within 300 metres of their right-of-way.

Outdoor Living Area Recommendations

Based on the predicted OLA sound levels shown in **Table 9**, and the threshold criteria outlined in **Table 5**, the 2nd, 7th, and 62nd floor outdoor amenity areas of Building A and the 3rd and 7th floor outdoor amenity areas of Building B require mitigation measures.

Dillon recommends the following acoustic barriers be installed to reduce the transportation noise impacts on the OLAs:

- An acoustic barrier with a height of 2.5 m surrounding the west façade of the 2nd floor OLA;
- An acoustic barrier with a height of 2.0 m surrounding the east façade of the 2nd floor OLA;
- An acoustic barrier with a height of 2.5 m surrounding the west façade of the 3rd floor OLA; and
- An acoustic barrier with a height of 2.5 m surrounding the east façade of the 3rd floor OLA.

The acoustic barriers should have a minimum surface density of 20 kg²/m. The barriers should be structurally sound, appropriately designed to withstand wind and snow load, and constructed without cracks or surface gaps. 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. The layout of the acoustic barriers and the predicted OLA daytime noise levels has been shown in **Figure 5**.

The mitigated transportation noise impact on the proposed development's OLAs are presented in **Table 10** below.



Table 10: Mitigated Combined Road and Rail Noise Prediction Summary Table - OLA Impacts

Receptor	Daytime Equivalent Sound Level – L _{eq} [1] (dBA)	
Level 2 East OLA	57	
Level 2 West OLA	59	
Level 3 OLA	59	

In addition to the acoustic barriers, the residential dwellings of the proposed development should have a Type B warning clause.

All warning clauses should be included in agreements that are registered on Title for all Offers of Purchase and Sale, lease/rental agreements, and condominium declarations. The list of applicable warning clauses required for the proposed development are provided in **Appendix D**.



A review of the site and surrounding area has been conducted to identify potential stationary sources (e.g., industrial / commercials) that have the potential to impact the proposed sensitive use. A site visit was completed by Dillon staff on August 1st, 2023 for the purpose of classifying facilities in proximity to the proposed developments, identifying potential sources of noise, and classifying the acoustic environment.

MECP Guideline D-6 Compatibility between Industrial Facilities

The MECP's land-use compatibility guidelines (D-series) are intended to prevent or minimize the encroachment of sensitive land uses upon industrial/commercial land uses and vice versa, as these two types of land uses are normally incompatible, due to possible adverse effects (e.g., noise) on the sensitive land use. As per the guideline, potential noise impact from commercial / industrial establishments within the potential influence area/or recommended minimum separation distance, as outlined in D-6 (see **Table 11**), should be assessed.

Table 11: Guideline D-6 Potential Influence Area and Recommended Minimum Separation Distance

Industrial Classification [1]	Area of Influence	Recommended Minimum Separation Distance
Class I	70 m	20 m
Class II	300 m	70 m
Class III	1000 m	300 m

Note: [1] Industrial classification are outlined in Guideline D-6, and presented in Appendix F.

3.1.1 Facilities

3.1

The land use planning guide, *D-6 Compatibility between Industrial Facilities*, was used for the classification of the surrounding industrial facilities and the compatible proximities for the proposed sensitive land use. The criteria for classification of industrial categories are presented in **Appendix F.**

Table 12 describes the industries that were identified with the potential to have noise impacts on the proposed development.



Facility and Address	Industrial Classification	Description of Operations	Environmental Compliance Approval
Various Commercial Facilities 117 Cross Avenue	Class 1	Rooftop air handling units	No
Various Commercial Facilities 125 Cross Avenue	Class 1	Rooftop air handling units, truck deliveries, and idling reefer trucks	No
Various Commercial Facilities 177 Cross Avenue	Class 1	Rooftop air handling units and 24 hour outdoor self-operated car wash and vacuuming	No
Various Commercial Facilities 187 Cross Avenue	Class 1	Rooftop air handling units and air tools associated with car detailing operations	No
AllFix Automotive 570 Argus Road	Class 1	Auto repair shop without paint spray booth	No

3.1.2 Stationary Noise Criteria and Area Classification

NPC-300 Exclusionary Limits

MECP Publication NPC-300 outlines applicable noise criteria for the proposed development associated with surrounding industrial and commercial stationary noise sources. The noise criteria are defined using area classifications (not to be confused with the D-6 industrial classifications), which are based on the receptor's existing acoustical environment. NPC-300 classification are as follows:

- Class 1 Urban Area;
- Class 2 Semi-Urban / Semi Rural;
- Class 3 Rural Area; and
- Class 4 Areas of Redevelopment and Infill.

Different noise guideline limits apply to each area classification, as shown below in **Table 13**.

Table 13: Exclusionary Limits for Stationary Noise Sources

Assessment Location		Exclusionary Sound Level Limit - Leq 1hr			
	Time Period Class 1		Class 2	Class 3	Class 4
Plane of window for living area or sleeping quarters	Daytime (07:00 - 19:00)	50 dBA	50 dBA	45 dBA	60 dBA
	Evening (19:00 - 23:00)	50 dBA	50 dBA	40 dBA	60 dBA
	Nighttime (23:00 - 07:00)	45 dBA	45 dBA	40 dBA	55 dBA
Outdoor points of reception	Daytime (07:00 - 19:00)	50 dBA	50 dBA	45 dBA	55 dBA



		Exclusionary Sound Level Limit - Leq 1hr			
Assessment Location	Time Period	Class 1	Class 2	Class 3	Class 4
	Evening (19:00 - 23:00)	50 dBA	45 dBA	40 dBA	55 dBA

During the site visit conducted on August 1st, 2023, it was observed that the acoustic environment surrounding the proposed development is dominated by transportation noise and general urban hum. Based on the nature of the area, the Class 1 urban sound level limits would apply.

Background Sound Levels

In areas that have increased ambient noise due to road traffic, the background sound level may be used as the sound level limit. Due to the proposed development's proximity to the Queen Elizabeth Way, Trafalgar Road, and Cross Avenue, a transportation noise analysis was completed to determine the background sound levels for the receptors of the proposed development.

The background sound levels due to road noise is the minimum hourly noise impacts during each hour of the daytime, evening, and nighttime period. Dillon utilized hourly traffic variations in urban areas to determine minimum traffic for each period. The minimum hourly road traffic of the Queen Elizabeth Way for the daytime, evening, and nighttime period was assessed as 5.0%, 2.3%, and 0.3%, respectively of the 2023 AADT. The minimum hourly road traffic of Cross Avenue was assessed as 4.8%, 2.7%, and 0.3%, respectively of the 2023 AADT.

The only traffic data available for Trafalgar Road was the ultimate capacity of the roadway. As this would not be representative of the current ambient noise levels of the area, Trafalgar Road was not considered for background sound levels.

The road noise analysis was completed using the TNM algorithm through Cadna/A. **Table 14** below summarizes the calculated background sound levels for each receptor of the proposed development.

Table 14: Background Sound Levels

Document	В	Background Sound Level (dBA)			
Receptor	Daytime	Evening	Nighttime ^[1]		
Building A	60	CC	57		
Northeast Façade	69	66			
Building A	65	62	53		
Southeast Façade	05	02	55		
Building A	70	67	58		
Southwest Façade	70	67	36		
Building A	72	69	60		



December	В	Background Sound Level (dBA)			
Receptor	Daytime	Evening	Nighttime ^[1]		
Northwest Façade					
Building B					
Northeast	69	66	57		
Façade					
Building B	Ε0	FF	46		
Southeast Façade	58	55	40		
Building B	74	67	58		
Southwest Façade	71	67			
Building B	72	CO	C1		
Northwest Façade	73	69	61		
Level 2 East OPR	53	50	NA		
Level 2 West OPR	64	60	NA		
Level 3 OPR	64	60	NA		

Notes: [1] Outdoor Points of Reception (OPR) are not assessed during the nighttime period

3.1.3 Stationary Sources

The noise sources associated with the industries identified in **Section 2.2.2** are outlined below in **Table** 15. The stationary noise source locations are presented in **Figure 6**.

Table 15: Stationary Noise Sources

Noise Source ^[1]	Associated Facility	# of Sources	Source Type
Rooftop HVAC Units	117, 125, 177, 187 Cross Avenue	38	Point source, steady
Rooftop Air-Cooled Condensers	125 Cross Avenue	17	Point source, steady
Truck Movements	125 Cross Avenue	2	Line source, steady
Truck Back-up Beepers	125 Cross Avenue	2	Line source, steady, tonal
Idling Reefer Truck	125 Cross Avenue	2	Point source, steady
Car Wash Bay	177 Cross Avenue	6	Point source, steady
Vacuum	177 Cross Avenue	4	Point source, steady
Air tools	187 Cross Avenue and 570 Argus Road	2	Point source, quasi- steady state

Note: [1] Sound power level and spectrum of noise sources are provided in **Appendix G**.

MECP's publication, NPC-104 – Sound Level Adjustments, specifies sound level adjustments (penalties) to be applied to the observed sound level of a source based on its sound quality. NPC-104 specifies that a penalty of +5 dB be applied to any sound that has a pronounced audible tonal quality or cyclical variation, and that a +10 dB penalty be applied to a quasi-steady impulsive sound. "Quasi-steady" is a sequence of impulsive sounds emitted from a source having a time interval of less than 0.5 s, per



MECP's NPC-101 – Technical Definitions. Sound level penalties are not accumulated when more than one sound quality applies. Instead, the largest of the applicable penalties shall be used.

The operation of air tools at Fine Auto Details and AllFix Automotive is assumed to operate as a quasisteady state impulsive sound. A +10 dB penalty was applied to this noise source.

With the exception of the rooftop HVAC units and self-operated car wash and vacuums, all noise sources were assumed to operate continuously only during the daytime and evening period. A 50% and 25% duty cycle was assumed for all rooftop HVAC units for the evening and nighttime periods, respectively. Based on observations made during the site visit, the self-operated car wash and vacuums were modelled as operating for 15 minutes per hour during the daytime and evening periods. It was assumed that the self-operated car wash and vacuums will operate at 66% of that capacity during the nighttime period.

3.1.4 Noise Sensitive Points of Reception

As per the MECP noise guidelines NPC-300, a Point of Reception (POR), as it applies to impact assessments of stationary sources, means any location on a noise sensitive land use where noise from a stationary source is received. Noise sensitive land uses include the following lands:

- Permanent, seasonal, or rental residences;
- Hotels, motels, and campgrounds;
- Schools, universities, libraries, and daycare centres;
- Hospitals and clinics, nursing / retirement homes; and
- Places of worship.

Noise sensitive points of reception considered in this study included the windowed facades of the apartments and the common outdoor amenity areas of the proposed development.

3.1.5 Predicted Sound Levels - Stationary

The noise analysis was completed using CADNA/A, an outdoor noise propagation model, based on ISO Standard 9613, Part 1: Calculation of the absorption of sound by the atmosphere, 1993 and Part 2: General method of calculation (ISO-9613-2:1996). The model is capable of incorporating various site specific features, such as elevation, berms, absorptive grounds, and barriers to accurately predict noise levels at specific receptors, pertaining to noise emissions from a particular source / sources. The ISO based model accounts for reduction in sound level due to increased distance and geometrical spreading, air absorption, ground attenuation, and acoustical shielding by intervening structures and topography. The model is considered conservative as it represents atmospheric conditions that promote propagation of sound from the source to the receiver.

The following assumptions were incorporated in the noise propagation modelling:



- A global ground absorption coefficient of 0.20, representing reflective grounds between sources and receptors;
- A second order reflection was incorporated in the noise model; and
- The ground within the study area is considered to be generally flat.

For the purposes of the stationary assessment, the Building Evaluation feature in Cadna/A was used to determine building facades impacts.

Impacts from the stationary noise sources were predicted through noise propagation modelling. The predicted receptor noise levels (at the proposed development site) were compared against the applicable criteria, as specified in NPC-300 (see **Table 13** and **Table 14**).

Table 16 summarizes the predicted building façade daytime, evening, and nighttime noise levels from stationary noise sources from the surrounding industries at the proposed development.

Table 16: Stationary Noise Impact Summary Table – Surrounding Industries on Proposed Development

Point of	Maximum Leq (1 hour) (dBA)			MECP
Reception	Daytime (07:00- 19:00)	Evening (19:00- 23:00)	Nighttime ^[1] (23:00-07:00)	Compliance
Building A Northeast Façade	50	49	44	Yes
Building A Southeast Façade	42	39	36	Yes
Building A Southwest Façade	55	51	50	Yes
Building A Northwest Façade	55	52	50	Yes
Building B Northeast Façade	56	55	52	Yes
Building B Southeast Façade	52	50	46	Yes
Building B Southwest Façade	57	52	51	Yes
Building B Northwest Façade	57	52	51	Yes
Level 2 East OPR	41	38	NA	Yes
Level 2 West OPR	52	48	NA	Yes
Level 3 OPR	49	45	NA	Yes

Note: [1] Outdoor Points of Reception (OPR) are not assessed during the nighttime period.



The predicted stationary noise impacts from the surrounding industries at the proposed development façades are shown in Figures 7 to 9.

The building evaluation feature in Cadna/A was used to determine the predicted stationary impacts and the background noise levels across all façades. The predicted impacts from the nearby stationary sources on the proposed development are less than the higher of the MECP NPC-300 Class 1 exclusionary limits or the background sound levels at all façade locations.

3.2 Impacts from the Proposed Development on itself and the Environment

The mechanical equipment of the proposed development should be assessed for noise impacts on the proposed development itself and the surrounding environment. At the time of this assessment, the mechanical plans for the proposed development were not available.

The future mechanical equipment of the proposed development should be located to reduce exposure to the receptors of the proposed development and the surrounding environment and where possible should be located within mechanical penthouses. Where isolation from noise sensitive receptors is not possible, equipment selection should be completed with consideration for reducing the noise emissions of the equipment.

As mechanical plans become available for the proposed development, it is Dillon's recommendation that a qualified acoustic consultant assesses the stationary noise impacts of the equipment on the development itself and the surrounding environment.

4.0 Rail Vibration Assessment

The proposed development is located approximately 180 m from the CN and GO Transit right-of-way, and outside of the 75 m vibration influence area per the Guidelines for New Development in Proximity to Railway Operations (FCM/RAC, 2013). A vibration assessment for the proposed development is not required.



5.0 Conclusions

Dillon Consulting Limited (Dillon) was retained by Cross Realty LP (the Developer) to complete a noise feasibility study as requested by Region of Halton for a proposed residential development located at 157 and 165 Cross Avenue in Oakville, Ontario. This study has been completed in support of Zoning Bylaw Amendment application for the proposed development.

The noise feasibility study focuses on the noise impacts from nearby transportation sources and stationary sources (i.e., nearby industrial operations) on the proposed development.

Transportation Noise Assessment

As outlined in Section 2.4, the results of the transportation noise assessment confirm that the noise impacts on the proposed development can be sufficiently controlled by:

- Upgraded glazing throughout the proposed development;
- The installation of central air conditioning with a Type D warning clause throughout the proposed development;
- The installation of acoustic barriers surrounding the building outdoor amenity areas;
- A CN and Metrolinx warning clauses; and
- A Type B warning clause throughout the proposed development.

Stationary Noise Assessment

The noise impacts from surrounding commercial and industrial properties on the development were assessed through modelling of stationary sources in Cadna/A using ISO:9613 standards. It was determined that the noise impacts from the surrounding commercial and industrial properties will not exceed MECP requirements.

The mechanical plans of the proposed development were not available at the time of this assessment. As the plans become available, it is recommended that a stationary noise assessment is completed for the mechanical equipment for impacts on the proposed development itself and the surrounding environment.



6.0 Closure

This noise feasibility study has been prepared based on the information provided and/or approved by Cross Realty LP. This report is intended to provide a reasonable review of available information within an agreed work scope, schedule, and budget. This report was prepared by Dillon for the sole benefit of Cross Realty LP. The material in the report reflects Dillon's judgement in light of the information available to Dillon at the time of this report preparation. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the responsibilities of such third parties. Dillon accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

We trust that the report is to your satisfaction. Please do not hesitate to contact the undersigned if you have any further questions on this report.

Respectfully Submitted:

DILLON CONSULTING LIMITED

Callum Heggart, EIT

L. F. ARNOLD 100150186
Feb 16, 2024

Lucas Arnold, P.Eng Associate



Figures

Cross Realty LP

Noise Feasibility Study - 157 and 165 Cross Avenue, Oakville, Ontario February 2024 – 23-6593





Scale 1: 2,500

Figure 1

Project # 23-6593

Subject Site

157 and 165 Cross Avenue, Oakville Ontario



Jan 2024



Scale 1: 5,000

Figure 2

Project # 23-6593

Jan 2024

157 and 165 Cross Avenue, Oakville Ontario

Surrounding Area





Scale 1: 2,000

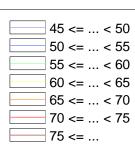


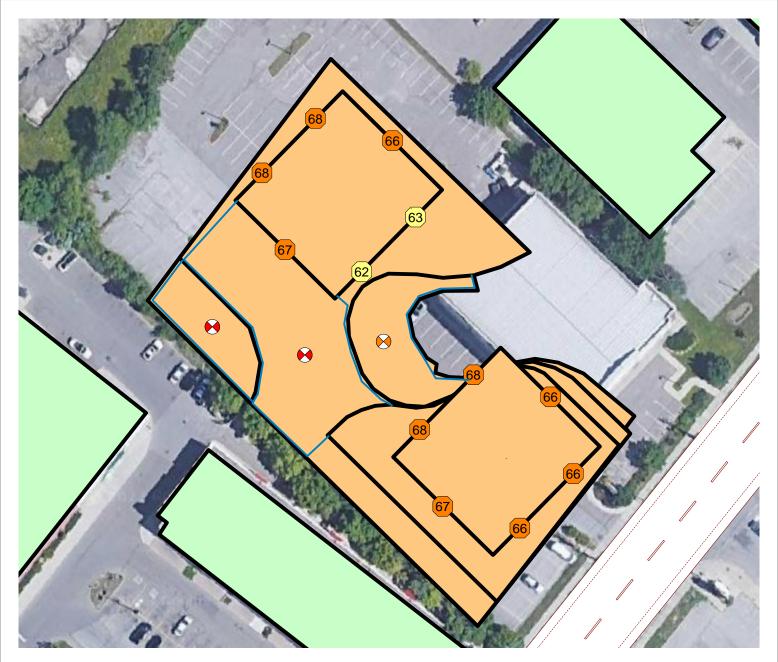
Figure 3

Project # 23-6593

Jan 2024

Combined Transportation Noise Impacts - Daytime





Scale 1: 2,000

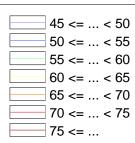


Figure 4

Project # 23-6593

Jan 2024

Combined Transportation Noise Impacts - Nighttime





Figure 5

Project # 23-6593

Jan 2024

Combined Transportation OLA Noise Impacts - Daytime





Scale 1: 2,500

Figure 6

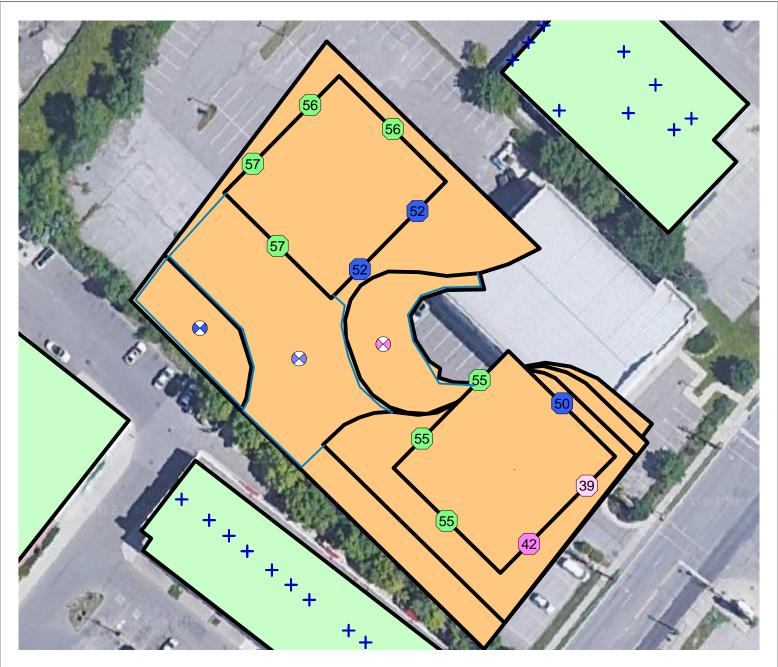
Project # 23-6593

157 and 165 Cross Avenue, Oakville Ontario

Stationary Noise Sources



Jan 2024



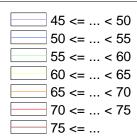


Figure 7

Project # 23-6593

Jan 2024

Stationary Noise Impacts Daytime





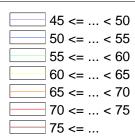


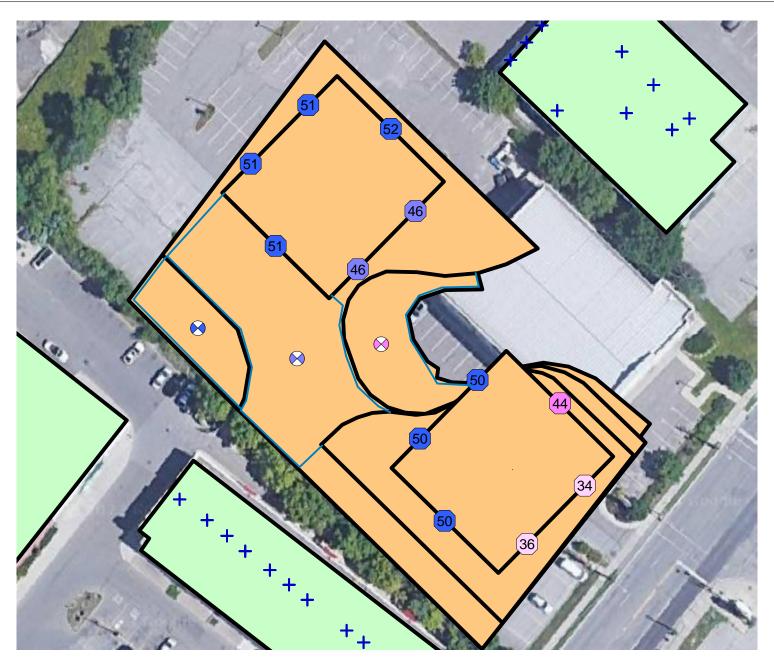
Figure 8

Project # 23-6593

Jan 2024

Stationary Noise Impacts Evening





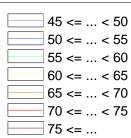


Figure 9

Project # 23-6593

Jan 2024

Stationary Noise Impacts Nighttime



Appendix A

Terms of Reference



Noise Feasibility Study - 157 and 165 Cross Avenue, Oakville, Ontario February 2024 – 23-6593



MEMO



TO: Sharon Yin and Michaela Campbell

FROM: Lucas Arnold **DATE:** July 24th, 2023

SUBJECT: 157 & 165 Cross Avenue Noise Feasibility Study Terms of Reference

OUR FILE: 23-6593

Dillon Consulting Limited (Dillon) has been retained by Distrikt to complete a Noise Feasibility Study for a proposed development located at 157 and 156 Cross Avenue in Oakville, Ontario. The proposed development will consist of two residential towers that are approximately 50-storeys.

Prior to the start of work on the Noise Feasibility Study, Dillon has prepared the following Terms of Reference for approval by the Region of Halton's Transportation Planning department.

Terms of Reference

The Noise Feasibility Study will be completed per the Region of Halton's Noise Abatement Policy and with consideration of the following regulatory documents:

- MECP's NPC-300 Guidelines;
- The Federation of Canadian Municipalities and the Railway Association of Canada Guidelines for New Development in Proximity to Railway Operations;
- The Town of Oakville's Noise By-law 2008-098 (as amended); and
- The Ministry of the Environment, Conservation and Parks (MECP) D-series of Guidelines for Land-Use Compatibility.

The Noise Feasibility Study will include an assessment of transportation noise impacts on the proposed development and an assessment of stationary noise impacts from surrounding facilities on the proposed development. The process that Dillon will follow to complete those assessments is described in the following sections.

Transportation Noise Assessment

To assess transportation noise impacts on the proposed development, Dillon will complete the following tasks:

- Dillon will review the site plans of the proposed development to identify Points of Reception as defined in the Region of Halton's Noise Abatements Guidelines;
- Dillon will gather traffic information for the QEW, Trafalgar Road, and the GO Transit Oakville Subdivision;
- Dillon will analyze the traffic information to determine traffic volumes 10 years in the future;
- Dillon will determine the transportation noise impacts at the subject property due to the surrounding roads and railways through predictive modeling, based on regulatory-approved noise prediction models; and

 Based on the transportation noise impacts, Dillon will advise of potential barrier requirements, upgraded building façade requirements, building ventilation provisions, and other requirements (if applicable) as per MECP noise guideline NPC-300.

Stationary Noise Impacts

To assess stationary noise impacts from the surrounding environment on the proposed development, Dillon will complete the following tasks:

- Dillon will complete a site visit to the area to determine potential stationary noise sources associated with the surrounding commercial and/or industrial properties;
- Dillon will gather information for the operations of the surrounding uses;
- Dillon will use the above information to develop an outdoor noise propagation model of the surrounding area in accordance with methods outlined in ISO 9613, which will be implemented using Cadna/A. This noise propagation model is an MECP approved acoustical modelling software;
- The predicted noise impacts will be compared against the applicable NPC-300 noise guideline limits; and
- If it is determined that impacts from the surrounding commercial and/or industrial properties
 exceed the NPC-300 noise guideline limits at the proposed development, source-based
 mitigation may be required. At Distrikt's authorization, Dillon will assess potential at-source
 noise mitigation measures.

Dillon will complete the following tasks to determine stationary noise impacts from the proposed development's mechanical equipment on itself and the surrounding environment:

- Dillon will review the mechanical system plans of the proposed development to identify stationary noise sources;
- Dillon will develop an outdoor noise propagation model for the proposed development's stationary noise sources in accordance with methods outlined in ISO 9613, which will be implemented using Cadna/A;
- The predicted noise impacts will be compared against the applicable NPC-300 noise guideline limits:
- If it is determined that impacts from the proposed development's stationary noise sources exceed the NPC-300 noise guidelines, source-based mitigation measures may be required. At Distrikt's authorization, Dillon will assess potential at-source noise mitigation measures.

If mechanical plans for the proposed development are not available at the time of the assessment, Dillon will provide guidance on equipment selection that would reduce stationary noise impacts on itself and the surrounding environment.

Reporting

Dillon will prepare a single report for the Noise Feasibility Study. The report is expected to consist of the following sections:

- An introduction describing the purpose of the study, a description of the proposed development and the surrounding environment, and a summary of the guidelines and regulations that the study follows;
- A section describing the road traffic information used in the assessment, the transportation noise modelling completed, a summary predicted transportation noise impacts, and if applicable, mitigation measures to achieve NPC-300 sound level limits;
- A section identifying the surrounding environment's stationary noise sources that have potential
 to impact the proposed development, a description of the noise modelling completed, a
 summary of predicted stationary noise impacts, and if applicable, mitigation measures to
 achieve NPC-300 sound level limits;
- A section providing guidance on the equipment selection for the proposed development such that noise impacts on the proposed development itself and the surrounding environment are minimized;
- A conclusion of the study which summarizes the recommendations from the transportation noise assessment and stationary noise assessment;
- Figures that identify the location of noise sources with respect to the proposed development, graphically show the noise impacts on the proposed development, and if applicable, identify the locations of noise mitigation measures;
- An appendix providing the plans of the proposed development at the time of the assessment;
- An appendix providing the relevant zoning by-laws for the surrounding environment; and
- An appendix providing the road traffic data utilized in the assessment

Appendix B

Site Plans



Noise Feasibility Study - 157 and 165 Cross Avenue, Oakville, Ontario February 2024 – 23-6593





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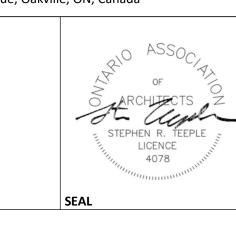
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CLIENT

Distrikt Developments

1-90 Wingold Avenue, Toronto, ON, Canada M6B 1P5
T. 416.628.8038

DISTRIKT 157 - 165 CROSS **AVE, OAKVILLE**



COVER SHEET

Author	Che	ecker	
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SHEET LIST

A000 - PROJECT INFORMATION A001 SHEET LIST, ZONING REQUIREMENTS A101 SITE SURVEY A111 SITE PLAN @ ROOF LEVEL A112 LOADING PLAN

A113 WASTE MANAGEMENT PLAN

A200 - FLOOR PLANS A201 LEVEL P7 PLAN

A202 LEVEL P6 PLAN A203 LEVEL P5 PLAN A204 LEVEL P4 PLAN A205 LEVEL P3 PLAN A206 LEVEL P2 PLAN A207 LEVEL P1 PLAN A211 LEVEL 1 PLAN A212 LEVEL MEZZ PLAN A214 LEVEL 3 PLAN A215 LEVEL 4 PLAN A216 LEVEL 5 PLAN

A217 L06, L07 & L58, L59 (A) & L42, L43 (B) A218 L08, L09 & L56, L57 (A) & L40, L41 (B) A220 L10, L11 & L54, L55 (A) & L38, L39 (B) A221 L12, L13 & L52, L53 (TOWER A) A222 LEVEL 14 (TYP TOWER) A223 L44, L45 (TOWER B) A224 L60, L61 (TOWER A) A225 LEVEL MPH A226 LEVEL MPH ROOF

A400 - ELEVATIONS A401 NORTH & SOUTH ELEVATIONS A402 EAST & WEST ELEVATIONS

A227 ROOF PLAN

A500 - SECTIONS A501 BUILDING SECTIONS

A700 - RENDERINGS A701 PERSPECTIVES A702 PERSPECTIVES

GCA BY LEVEL (BELOW GRADE) AREA PER LEVEL NO. OF TYP TOTAL AREA LEVELS (SM) (SF) (SM) (SF) 5,688.49 m² 61,230 SF LEVEL P7 LEVEL P6 5,688.49 m² 61,230 SF LEVEL P5

BUILDING STATISTICS - OVERALL

LEVEL P4

LEVEL P3

LEVEL P2

LEVEL P1

5,688.49 m² 61,230 SF 1 5,688.49 m² 61,230 SF

102,202.99 m² 1,100,104 SF

TOTAL AREA

2,229.53 m² 23,998 SF

1,866.97 m² 20,096 SF

1,949.72 m² 20,987 SF

1,443.06 m² 15,533 SF

900.66 m²

971.03 m² 10,452 SF

3,340.50 m² 35,957 SF

3,361.84 m² 36,186 SF

3,381.76 m² 36,401 SF

3,396.50 m² 36,560 SF

1,660.88 m² 17,878 SF

830.44 m² 8,939 SF

57,807.15 m² 622,231 SF

165.97 m² 1,786 SF

32,308.28 m² 347,763 SF

9,695 SF

(SM) (SF)

39,819.44 m² 428,613 SF 1 39,819.44 m² 428,613 SF

	AREA PER	LEVEL	NO. OF TYP	TOTAL	AREA
LEVELS	(SM)	(SF)	LEVELS	(SM)	(SF)
LEVEL 01	3,814.28 m²	41,057 SF	1	3,814.28 m ²	41,057 SF
LEVEL MEZZANINE	4,352.13 m²	46,846 SF	1	4,352.13 m ²	46,846 SF
LEVEL 02	3,882.64 m²	41,792 SF	1	3,882.64 m²	41,792 SF
LEVEL 03	3,046.43 m²	32,792 SF	1	3,046.43 m ²	32,792 SF
LEVEL 04	1,934.93 m²	20,827 SF	1	1,934.93 m²	20,827 SF
LEVEL 05	1,802.04 m²	19,397 SF	1	1,802.04 m ²	19,397 SF
TYP	1,675.58 m²	18,036 SF	4	6,702.34 m ²	72,143 SF
TYP	1,685.90 m²	18,147 SF	4	6,743.60 m ²	72,588 SF
TYP	1,694.57 m²	18,240 SF	4	6,778.27 m ²	72,961 SF
TYP L12; L13 & L52; L53	849.13 m²	9,140 SF	4	3,396.50 m ²	36,560 SF
TYP	1,700.44 m²	18,303 SF	61 / 45	54,413.95 m ²	585,707 SF
TYP L44; L45	835.13 m²	8,989 SF	2	1,670.25 m ²	17,978 SF
LEVEL MPH	835.13 m²	8,989 SF	1	835.13 m ²	8,989 SF
UPPER ROOF	173.20 m²	1,864 SF	1	173.20 m²	1,864 SF
TYP L60; L61	830.44 m²	8,939 SF	2	1,660.88 m²	17,878 SF
LEVEL MPH	830.44 m²	8,939 SF	1	830.44 m²	8,939 SF
UPPER ROOF	165.97 m²	1,786 SF	1	165.97 m²	1,786 SF

30,108.37 m² 324,084 SF

AREA PER LEVEL (SM) (SF)

2,229.53 m² 23,998 SF

1,866.97 m² 20,096 SF

1,949.72 m² 20,987 SF

1,443.06 m² 15,533 SF

971.03 m² 10,452 SF

900.66 m² 9,695 SF

849.13 m² 9,140 SF

165.97 m² 1,786 SF

15,408.18 m² 165,852 SF

835.13 m²

840.46 m²

8,989 SF

845.44 m² 9,100 SF 4

850.22 m² 9,152 SF 38

830.44 m² 8,939 SF 2

830.44 m² 8,939 SF 1

9,047 SF

GCA BY LEVEL (ABOVE GRADE) TOWER A

LEVELS

UNIT	SIZE F	RANGE	COUNT				
CATEGORY	MINIMUM	COOM	%				
1B	508 SF	595 SF	752	63%			
2B	616 SF	895 SF	346	29%			
3B	761 SF	999 SF	100	8%			
OTAL			1198				
l	JNIT SU	IMMAR)	/ 2				
SIZE RANGE							

UNIT TYPE MINIMUM MAXIMUM COUNT %

LEVEL

	01411 1 11 E	IVIIIVIOIVI		COUNT	/0	l [LEVEL 08	
	1B	508 SF	556 SF	299	25%		LLVLL 00	_
	1B+D	552 SF	595 SF	453	38%		LEVEL 10	
	2B	616 SF	895 SF	346	29%		LEVEL 10 LEVEL 10	
	3B	761 SF	999 SF	100	8%	1 1	LLVLL 10	_
	TOTAL			1198	100%		LEVEL 12	
							LEVEL 12	
						ŀ	LEVEL 12	
						,	LEVEL 14	
	٨٥	REA BY T	VDE			li	LEVEL 14	
	Ar	LADII	IFL				LEVEL 14	
			ТОТ	AL AREA	\	1	LEVEL 44	
	AREA TYPE	+	(SM)		SF)	1 1	LEVEL 44 LEVEL 44	
EVTEDIOD	ANLATTIL		• •		•	l l		
EXTERIOR			1,326.40 r		4,277 SF	1 1	LEVEL 60	
INDOOR AM	IENITY		3,648.26 ı		9,270 SF		LEVEL 60	
OFFICE CO	MMON AREA - C	OFFICE	99.50 r	n²	1,071 SF		LEVEL 60	
OFFICE LEA	SEABLE		1,027.15 r	n² 1	1,056 SF		TOTAL	+
OTHER			6,272.29 r	n² 6	7,514 SF	Ι ,		
OUTDOOR /	AMENITY		1,480.77 r	n² 1	5,939 SF			
RES. COMM	ION AREA		7,155.41 r	n² 7	7,020 SF	1		
RES. SERVI	CE		2,841.02 r	n² 3	0,580 SF	1		
RETAIL COM	MMON AREA		46.44 r	n²	500 SF	1		
RETAIL LEA	SABLE		2,692.80 r	n² 2	8,985 SF	1		
SALEABLE			67,572.32 r	n² 72	7,342 SF]		

UNIT		MAXIMUM	COUNT	LEVEL	PARKING TYPE
TEGORY	MINIMUM (SF)	(SF)	COUNT	LEVEL P1	COMMERCIAL - ACCESSIBLE B (5700 x 2700)
1B	523 SF	587 SF	7	LEVEL P1	COMMERCIAL - STANDARD (5700 x 2700)
2B	620 SF	895 SF	11	LEVEL P1	VISITOR - STANDARD (5700 x 2700)
3B	814 SF	999 SF	6		VISITOR - STANDARD (5700 X 2700)
1B	523 SF	587 SF	24 11	LEVEL P1	
2B	631 SF	784 SF	11	LEVEL P2	VISITOR - ACCESSIBLE A (5700 x 3650)
3B	804 SF	805 SF	2	LEVEL P2	VISITOR - ACCESSIBLE B (5700 x 2700)
			24	LEVEL P2	VISITOR - STANDARD (5700 x 2700)
1B	508 SF	595 SF	64	LEVEL P2	VICTOR CITALDIANS (CICCA ZICC)
2B	659 SF	707 SF	28		DECIDENTIAL ACCEPCIBLE A (5700, 0050)
3B	812 SF	812 SF	96		RESIDENTIAL - ACCESSIBLE A (5700 x 3650)
1B	521 SF	595 SF	64		RESIDENTIAL - ACCESSIBLE B (5700 x 2700)
2B	659 SF	667 SF	24	LEVEL P3	RESIDENTIAL- STANDARD (5700 x 2700)
3B	761 SF	812 SF	8	LEVEL P3	VISITOR - STANDARD (5700 x 2700)
			96	LEVEL P3	(* * * * * * * * * * * * * * * * * * *
1B 2B	523 SF 616 SF	595 SF 667 SF	60		RESIDENTIAL - ACCESSIBLE A (5700 x 3650)
3B	800 SF	812 SF	8		,
<u> </u>	000 01	012 01	96		RESIDENTIAL - ACCESSIBLE B (5700 x 2700)
1B	523 SF	595 SF	32	LEVEL P4	RESIDENTIAL- STANDARD (5700 x 2700)
2B	656 SF	663 SF	12	LEVEL P4	
3B	812 SF	812 SF	4 48	LEVEL P5	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)
1B	523 SF	595 SF	486	LEVEL P5	RESIDENTIAL- STANDARD (5700 x 2700)
2B	662 SF	667 SF	218		TRESIDENTIAL STANDARD (STOOX 2700)
3B	812 SF	812 SF	64	LEVEL P5	
			768		RESIDENTIAL - ACCESSIBLE A (5700 x 3650)
1B	523 SF	587 SF	14	LEVEL P6	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)
2B	655 SF	667 SF	10	LEVEL P6	RESIDENTIAL- STANDARD (5700 x 2700)
1B	523 SF	592 SF	14	LEVEL P6	·
2B	663 SF	663 SF	4		RESIDENTIAL - ACCESSIBLE A (5700 x 3650)
3B	815 SF	983 SF	4		,
			22		RESIDENTIAL - ACCESSIBLE B (5700 x 2700)
			1198	LEVEL P7	RESIDENTIAL- STANDARD (5700 x 2700)
				LEVEL P7	
				TOTAL PARKING	

UNIT	SUMM	ARY 1 T	OWER A	A	UNIT
UNIT TEGORY	MINIMUM (SF)	MAXIMUM (SF)	COUNT	%	LEVEL
1B	508 SF	595 SF	464	67%	LEVEL 04
2B	616 SF	776 SF	168	24%	LEVEL 04 LEVEL 04
3B	804 SF	999 SF	62	9%	LEVEL 04
					LEVEL 05
AL			694		LEVEL 05

UNIT SUMMARY 2 TOWER A							
UNIT TYPE	SIZE F	MAXIMUM	COUNT	%			
1B	508 SF	554 SF	174	23%			
1B+D	552 SF	595 SF	290	39%			
2B	616 SF	776 SF	168	23%			
3B	804 SF	999 SF	62	8%			
TOTAL			694	93%			

COUNT	MAXIMUM (SF)	MINIMUM (SF)	UNIT CATEGORY	LEVEL
4	570 SF	523 SF	1B	LEVEL 04
5	670 SF	631 SF	2B	LEVEL 04
3	999 SF	824 SF	3B	LEVEL 04
12				
6	587 SF	523 SF	1B	LEVEL 05
5	776 SF	639 SF	2B	LEVEL 05
1	804 SF	804 SF	3B	LEVEL 05
12				
36	595 SF	508 SF	1B	LEVEL 06
8	663 SF	663 SF	2B	LEVEL 06
4	812 SF	812 SF	3B	LEVEL 06
48				
36	595 SF	521 SF	1B	LEVEL 08
8	663 SF	663 SF	2B	LEVEL 08
4	812 SF	812 SF	3B	LEVEL 08
48				
32	595 SF	523 SF	1B	LEVEL 10
12	663 SF	616 SF	2B	LEVEL 10
4	812 SF	812 SF	3B	LEVEL 10
48				
32	595 SF	523 SF	1B	LEVEL 12
12	663 SF	656 SF	2B	LEVEL 12
4	812 SF	812 SF	3B	LEVEL 12
48				
304	595 SF	523 SF	1B	LEVEL 14
114	667 SF	663 SF	2B	LEVEL 14
38	812 SF	812 SF	3B	LEVEL 14
456				
14	592 SF	523 SF	1B	LEVEL 60
4	663 SF	663 SF	2B	LEVEL 60
4	983 SF	815 SF	3B	LEVEL 60
22				
694				TOTAL

BUILDING STATISTICS - TOWER B

BUILDING STATISTICS - TOWER A

LEVELS

LEVEL MEZZANINE

TYP L06; L07 & L58; L59

TYP L08; L09 & L56; L57

TYP L10; L11 & L54; L55

TYP L12; L13 & L52; L53

TYP TOWER L14 TO L51

TYP L60; L61

UPPER ROOF

LEVEL 02

LEVEL 03

LEVEL 05

	AREA PE	R LEVEL	NO. OF TYP	TOTAL	AREA
LEVELS	(SM)	(SF)	LEVELS	(SM)	(SF)
LEVEL 01	1,584.76 m²	17,058 SF	1	1,584.76 m ²	17,058 S
LEVEL MEZZANINE	455.13 m²	4,899 SF	1	455.13 m²	4,899 S
LEVEL 02	1,295.28 m²	13,942 SF	1	1,295.28 m²	13,942 S
LEVEL 03	1,603.37 m²	17,259 SF	1	1,603.37 m²	17,259 S
LEVEL 04	963.90 m²	10,375 SF	1	963.90 m²	10,375 S
LEVEL 05	901.38 m²	9,702 SF	1	901.38 m²	9,702 S
TYP L06; L07 & L42; L43	840.46 m²	9,047 SF	4	3,361.84 m²	36,186 S
TYP L08; L09 & L40; L41	845.44 m²	9,100 SF	4	3,381.76 m ²	36,401 S
TYP L10; L11 & L38; 39	849.13 m²	9,140 SF	4	3,396.50 m ²	36,560 S
TYP TOWER L12 TO L37	850.22 m²	9,152 SF	26	22,105.67 m ²	237,943 S
TYP L44; L45	835.13 m²	8,989 SF	2	1,670.25 m ²	17,978 S
LEVEL MPH	835.13 m ²	8,989 SF	1	835.13 m ²	8,989 S
UPPER ROOF	173.20 m ²	1,864 SF	1	173.20 m ²	1,864 S

REA PE	R LEVEL	NO. OF TYP	TOTAL	. AREA
1)	(SF)	LEVELS	(SM)	(SF)
.76 m²	17,058 SF	1	1,584.76 m ²	17,058 SF
5.13 m²	4,899 SF	1	455.13 m²	4,899 SF
.28 m²	13,942 SF	1	1,295.28 m²	13,942 SF
.37 m²	17,259 SF	1	1,603.37 m²	17,259 SF
3.90 m²	10,375 SF	1	963.90 m²	10,375 SF
.38 m²	9,702 SF	1	901.38 m²	9,702 SF
).46 m²	9,047 SF	4	3,361.84 m²	36,186 SF
5.44 m²	9,100 SF	4	3,381.76 m ²	36,401 SF
).13 m²	9,140 SF	4	3,396.50 m ²	36,560 SF
.22 m²	9,152 SF	26	22,105.67 m ²	237,943 SF
i.13 m²	8,989 SF	2	1,670.25 m ²	17,978 SF
i.13 m²	8,989 SF	1	835.13 m²	8,989 SF
3.20 m²	1,864 SF	1	173.20 m²	1,864 SF

TOTAL	12,032.51 m²	129,517 SF	41,728.17 m ²	449,158 SF
	12,002.01	120,011 01	,	110,1000

UNIT SUMMARY 1 TOWER B						
UNIT CATEGORY	MINIMUM (SF)	MAXIMUM (SF)	COUNT	%		
1B	523 SF	587 SF	288	57%		
2B	620 SF	895 SF	178	35%		
3B	761 SF	892 SF	38	8%		
OTAL			504			

UNIT SUMMARY 2 TOWER B						
UNIT TYPE	MINIMUM	MAXIMUM	COUNT	%		
1B	523 SF	556 SF	125	23%		
1B+D	552 SF	587 SF	163	30%		
2B	620 SF	895 SF	178	33%		
3B	761 SF	892 SF	38	7%		
TOTAL			504	92%		

LEVEL	UNIT CATEGORY	MINIMUM (SF)	MAXIMUM (SF)	COUNT
LEVEL 04	1B	523 SF	587 SF	3
LEVEL 04	2B	620 SF	895 SF	6
LEVEL 04	3B	814 SF	892 SF	3
				12
LEVEL 05	1B	523 SF	587 SF	5
LEVEL 05	2B	631 SF	784 SF	6
LEVEL 05	3B	805 SF	805 SF	1
				12
LEVEL 06	1B	523 SF	587 SF	28
LEVEL 06	2B	659 SF	707 SF	20
				48
LEVEL 08	1B	523 SF	587 SF	28
_EVEL 08	2B	659 SF	667 SF	16
LEVEL 08	3B	761 SF	761 SF	4
				48
LEVEL 10	1B	523 SF	587 SF	28
LEVEL 10	2B	659 SF	667 SF	16
LEVEL 10	3B	800 SF	800 SF	4
				48
LEVEL 14	1B	523 SF	587 SF	182
LEVEL 14	2B	662 SF	667 SF	104
LEVEL 14	3B	812 SF	812 SF	26
				312
LEVEL 44	1B	523 SF	587 SF	14
LEVEL 44	2B	655 SF	667 SF	10
				24
TOTAL				504

LEVEL	PARKING TYPE	COU
LEVEL P1	COMMERCIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P1	COMMERCIAL - STANDARD (5700 x 2700)	39
LEVEL P1	VISITOR - STANDARD (5700 x 2700)	39
LEVEL P1		79
LEVEL P2	VISITOR - ACCESSIBLE A (5700 x 3650)	2
LEVEL P2	VISITOR - ACCESSIBLE B (5700 x 2700)	2
LEVEL P2	VISITOR - STANDARD (5700 x 2700)	124
LEVEL P2		128
LEVEL P3	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P3	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P3	RESIDENTIAL- STANDARD (5700 x 2700)	108
LEVEL P3	VISITOR - STANDARD (5700 x 2700)	13
LEVEL P3	,	125
LEVEL P4	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P4	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P4	RESIDENTIAL- STANDARD (5700 x 2700)	121
LEVEL P4		125
LEVEL P5	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P5	RESIDENTIAL- STANDARD (5700 x 2700)	122
LEVEL P5	,	125
LEVEL P6	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P6	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P6	RESIDENTIAL- STANDARD (5700 x 2700)	121
LEVEL P6	(* ***	125
LEVEL P7	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P7	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P7	RESIDENTIAL- STANDARD (5700 x 2700)	108
LEVEL P7	(0,00 % 2,00)	112
TOTAL PARKING		819
1017121711111110	1	010

LEVEL	TYPE	TOTA
LEVEL P3	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P3	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P3	RESIDENTIAL- STANDARD (5700 x 2700)	108
LEVEL P3		112
LEVEL P4	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P4	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P4	RESIDENTIAL- STANDARD (5700 x 2700)	121
LEVEL P4		125
LEVEL P5	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P5	RESIDENTIAL- STANDARD (5700 x 2700)	122
LEVEL P5		125
LEVEL P6	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P6	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P6	RESIDENTIAL- STANDARD (5700 x 2700)	121
LEVEL P6		125
LEVEL P7	RESIDENTIAL - ACCESSIBLE A (5700 x 3650)	3
LEVEL P7	RESIDENTIAL - ACCESSIBLE B (5700 x 2700)	1
LEVEL P7	RESIDENTIAL- STANDARD (5700 x 2700)	108
LEVEL P7		112
TOTAL PARKING		599

VISITOR VEHICLE PARKING						
LEVEL	TYPE	TOTAL				
LEVEL P1	VISITOR - STANDARD (5700 x 2700)	39				
LEVEL P1		39				
LEVEL P2	VISITOR - ACCESSIBLE A (5700 x 3650)	2				
LEVEL P2	VISITOR - ACCESSIBLE B (5700 x 2700)	2				
LEVEL P2	VISITOR - STANDARD (5700 x 2700)	124				
LEVEL P2		128				
LEVEL P3	VISITOR - STANDARD (5700 x 2700)	13				
LEVEL P3		13				
TOTAL PARKING		180				

COMMERCIAL OR NON-RES. PARKING						
LEVEL	TYPE	TOTAL				
LEVEL P1	COMMERCIAL - ACCESSIBLE B (5700 x 2700)	1				
LEVEL P1	COMMERCIAL - STANDARD (5700 x 2700)	39				
LEVEL P1		40				
TOTAL PARKING		40				

SITE AREA	TOTAL = 9,630 m ²			
	AREA OF ROAD CONVEYANCES = 3,586.4	95 m²		
	PRIVATELY OWNED PUBLIC ACCESSIBLE	SPACES = 1,057.92 m ²		
SITE INFORMATION	SITE AREA PROVIDED BY: J. D. BARNES I	_TD		
PROGRAM	MULTI-TOWER RESIDENTIAL DEVELOPMENT WITH 6-STY PODIUM; TOWER A @ 61 STY + MPH; TOWER B @ 45 STY + M WITH A TOTAL OF <u>1198</u> RESIDENTIAL UNITS			
	REQUIRED / PERMITTED	PROVIDED		
MAXIMUM BUILDING HEIGHT		TOWER A @ 61 STY + MPH; TOWER B @ 45 STY + MPH		
WASTE LOADING	13.0 m (L) x 4.0 m (W) x 7.5 M (H)	13.0 m (L) x 4.0 m (W) x 7.5 M (H)		
GROSS CONSTRUCTION AREA	102,202.99 m²			
GROSS FLOOR AREA		INITION AS PER TOWN OF OAKVILLE BY-LAW NUMBER 2023-065 "MEANS THE TOTAL AREA OF ALL OF THE FLOORS IN A EXTERIOR FACES F THE EXTERIOR WALLS, BUT SHALL NOT INCLUDE AN ATTIC, BASEMENT OR MECHANICAL PENTHOL		
FLOOR SPACE INDEX	97,858.28 m² (TOTAL GFA) / 9,630 m²	FLOOR SPACE INDEX (FSI) DEFINITION PER TOWN OF OAKVILLE BY-LAW 2014-014 8 AMENDED IN BY-LAW 2023-065 "MEANS THE GROSS FLOOR AREA OF ALL BUILDING A LOT DIVIDED BY THE LOT AREA."		
NUMBER OF UNITS	1198 RESIDENTIAL UNITS			

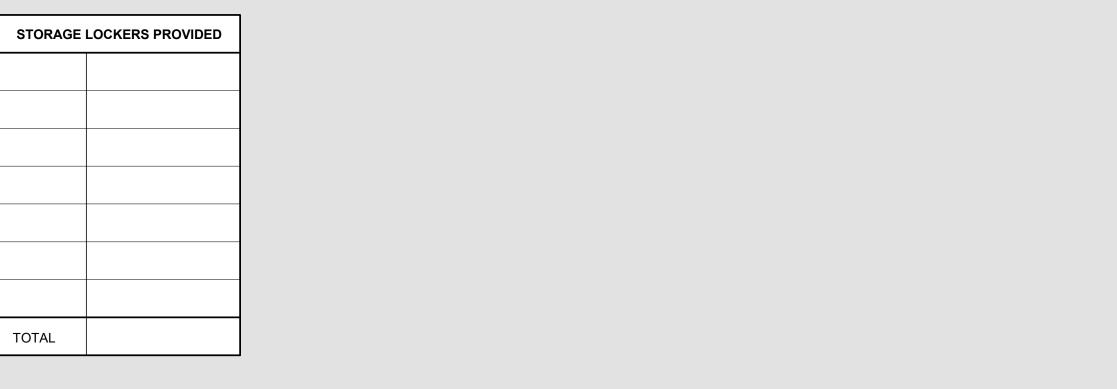
	AMENITY AREA PROVISIONS			
	INDOOR AMENITY SPACE	3,648.26 m ² /	<u>1198</u> UNITS	3.04 m ² PER UN
	OUTDOOR AMENITY SPACE	1,480.77 m² /	<u>1198</u> UNITS	1.30 m ² PER UN

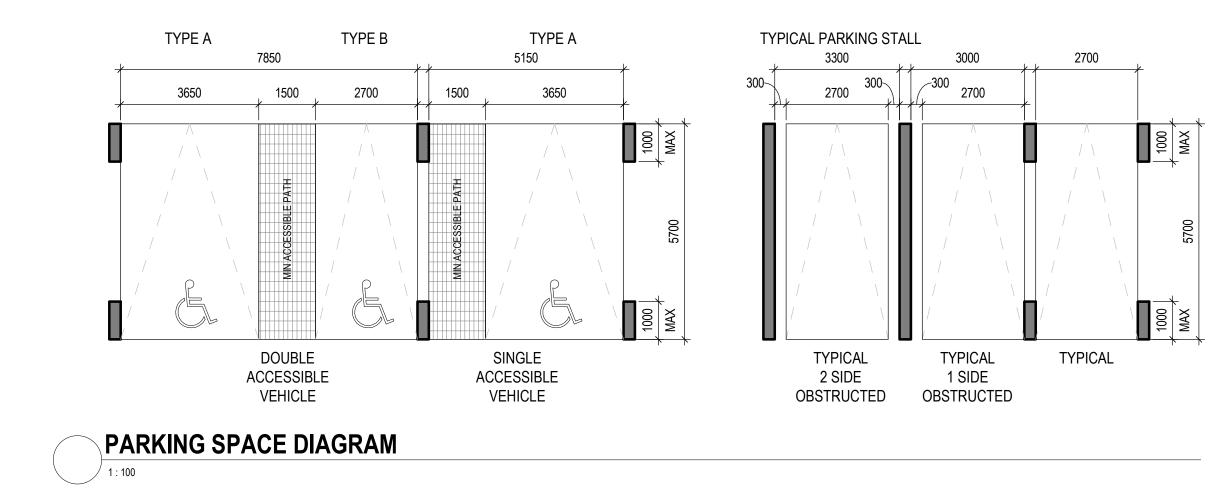
	<u>RE</u>	QUIRED / PERMITTED		PROVIDED
VEHICULAR PARKING	RESIDENTIAL	<u>1198</u> × (0.50) = 599		599
	VISITOR	<u>1198</u> x (0.15) = 180		180
	RETAIL / COMMERCIAL	2,692.80 m² (1.08/100 m²) =	29	40
	OFFICE	1,027.15 m² (1.08/100 m²) =	11	40
TOTAL REQUIRED			819	<u>819</u>
BICYCLE PARKING	RESIDENTIAL	<u>1198</u> × (1.00) = 1198	899	292 BICYCLE STACKER - SHORT-TERM
(NON-RESIDENTIAL PARKING	VISITOR (25% OF TOTAL)	<u>1198</u> × (0.25) = (300)		VISITOR (600x1800) 900 BICYCLE STACKER - LONG-TERM RESIDENTIAL (600x1800)
REQUIREMENT - THE GREATER OF 2 OR 1.0 PER 1,000 m²)	RETAIL / COMMERCIAL	2,692.80 m² (1.00/1,000 m²) =	3	8 BICYCLE SINGLE - SHORT-TERM VISITOR (600x1800)
	OFFICE	1,027.15 m² (1.00/1,000 m²) =	1	4 BICYCLE SINGLE - SHORT-TERM COMMERCIAL (600x1800)

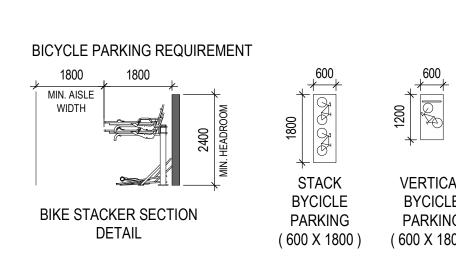
VEHICULAR PARKING PROVISION BREAKDOWN BY FLOOR LEVEL							
LEVEL RESIDENTIAL		VISITOR	NON-RES. 1 & 2*	TOTAL			
	599			819			
P7	112			112			
P6	125			125			
P5	125			125			
P4	125			125			
P3	112	13		125			
P2		128		128			
P1		39	40	79			
TOTAL	599	180	40	<u>819</u>			

/	/ISION BREAKDOWN BY FLOOR LEVEL			BICYCLE PARKING PROVISION BREAKDOWN BY FLOOR LEVEL					
	VISITOR	NON-RES. 1 & 2*	TOTAL		LEVEL	RESIDENTIAL	VISITOR	NON-RES. 1 & 2	TOTAL
			819		MEZZ	430			430
			112		L01	26	300		330
			125		P2	444			444
			125		TOTAL				<u>1204</u>
			125						
	13		125						
	128		128						
	39	40	79						

STORAGE	STORAGE LOCKERS PROVIDED		
TOTAL			







BICYCLE PARKING REQUIREMENTS

1:100

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5 Camden Street, Toronto, ON, Canada, M5V 1V2

Janet Rosenberg & Studio 148 Kenwood Avenue, Toronto, ON M6C 2S3

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BA Consulting Group Limited

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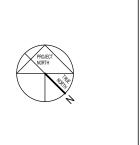
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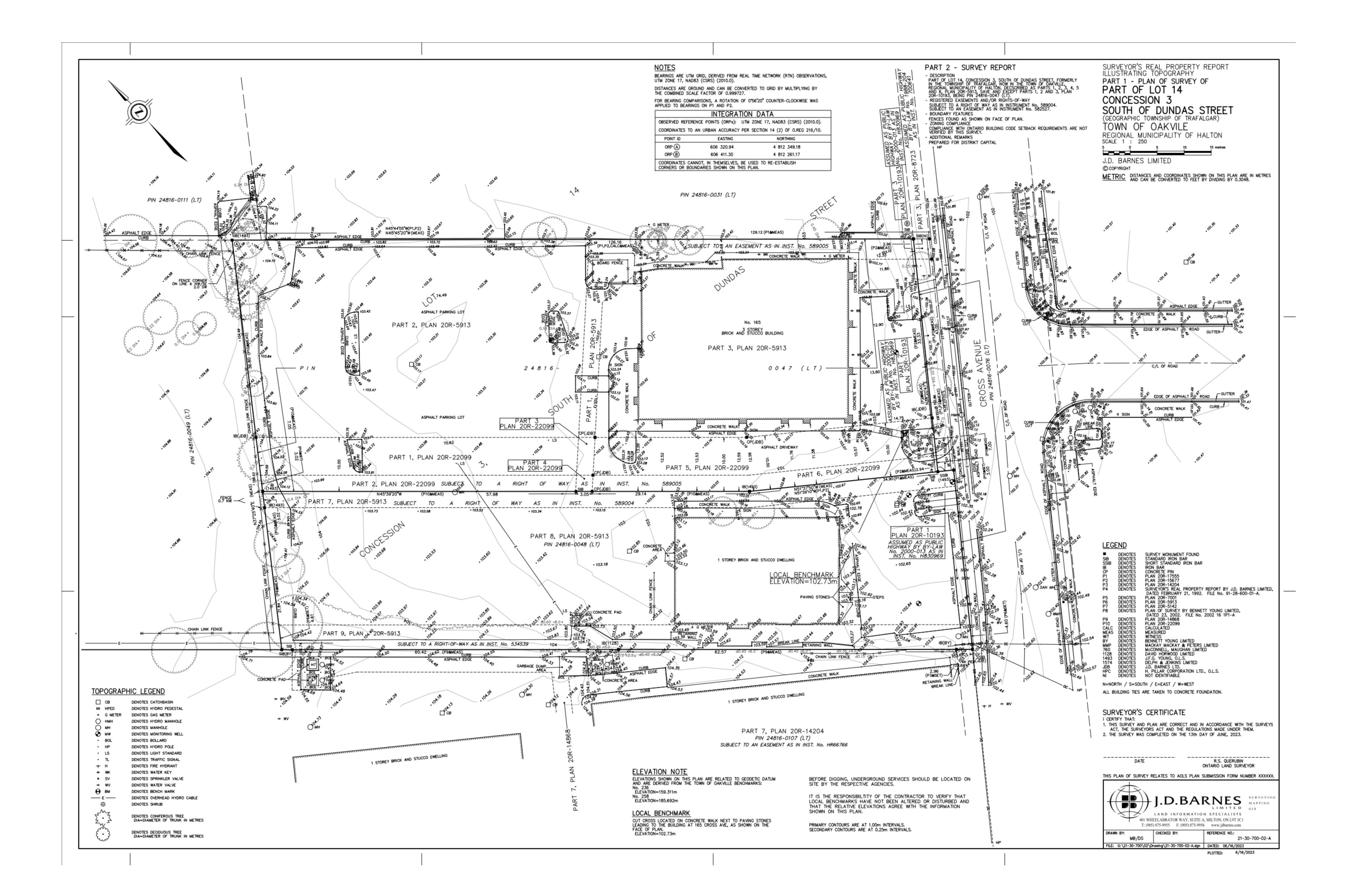
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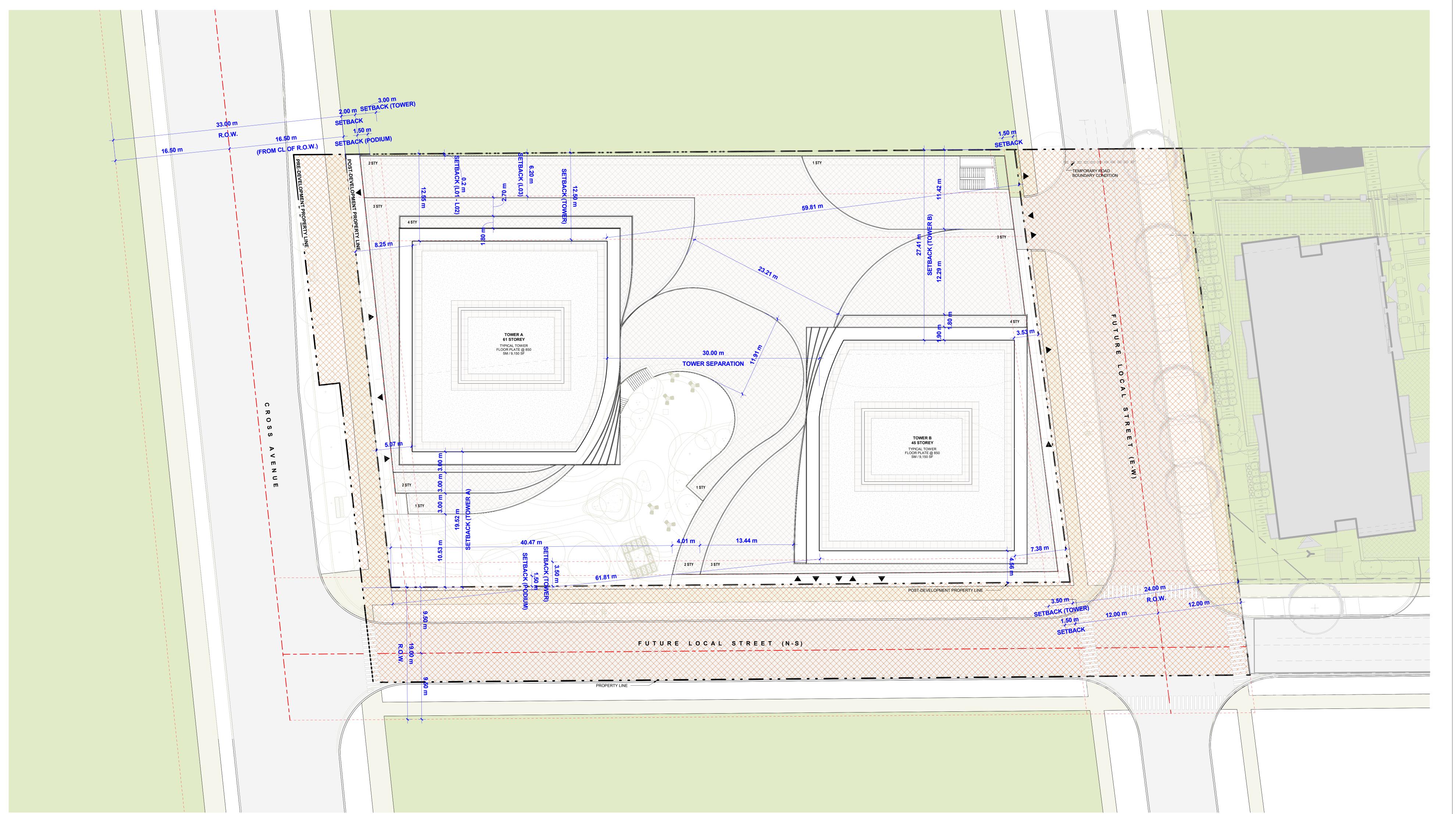
SITE SURVEY

AVE, OAKVILLE

157 & 165 Cross Avenue, Oakville, ON, Canada

PROJECT NORTH

	Author	Che	ecker	
	DRAWN BY	CHEC	KED BY	
	23-107		ARCH E	2024-02-16
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LANDSCAPE

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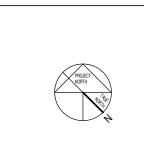
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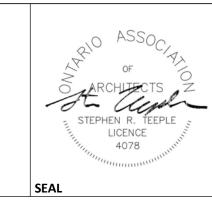
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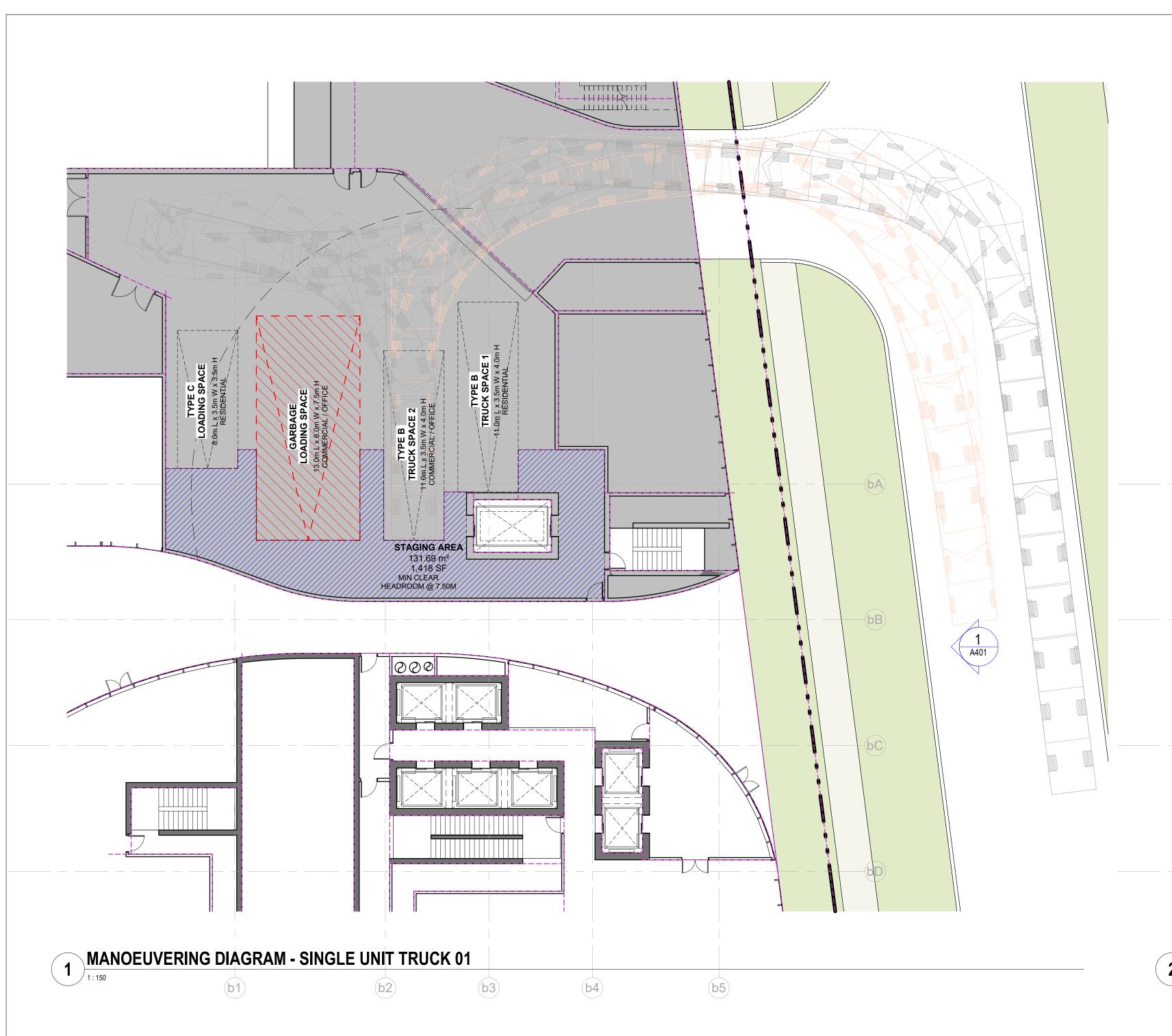
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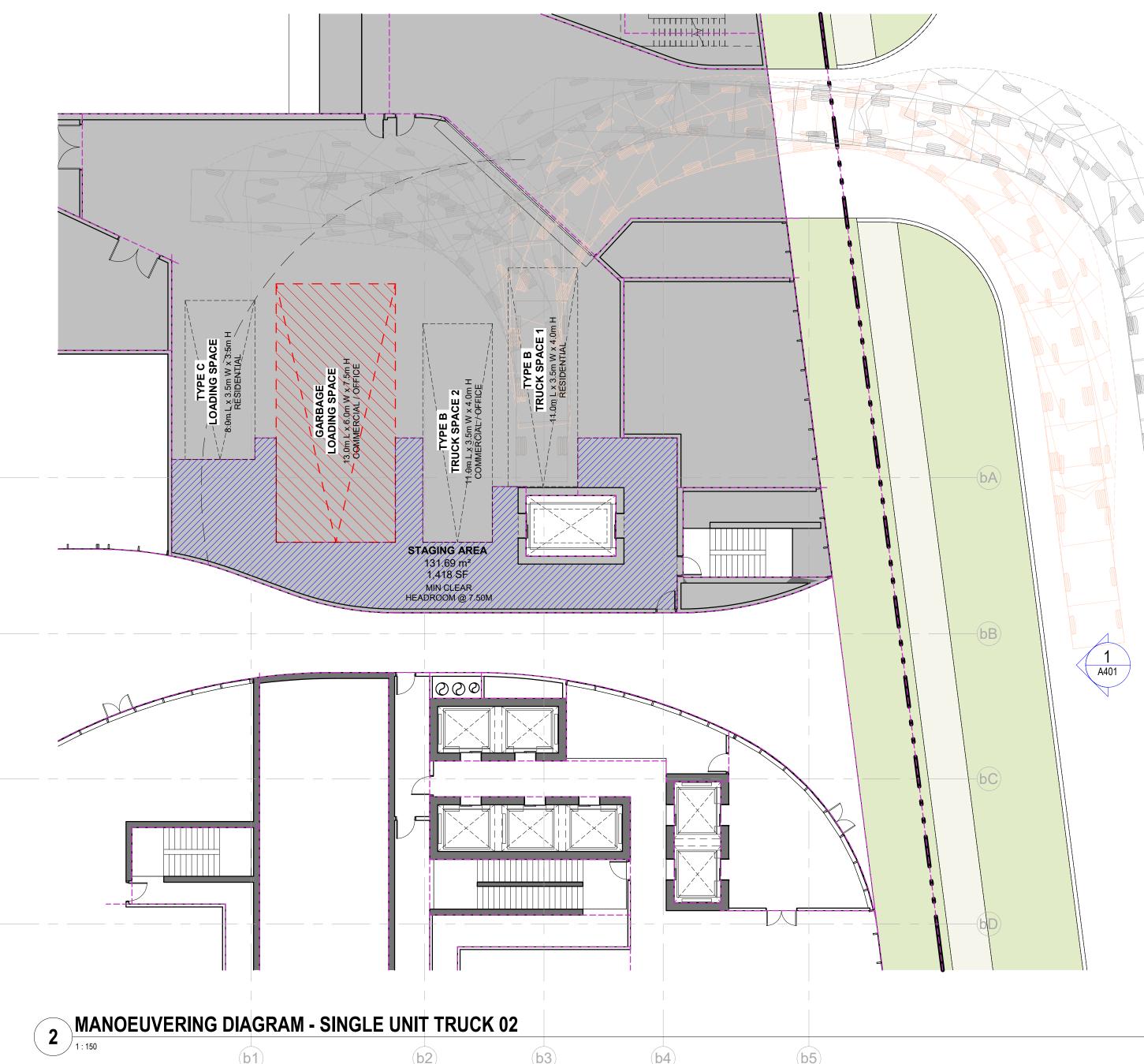


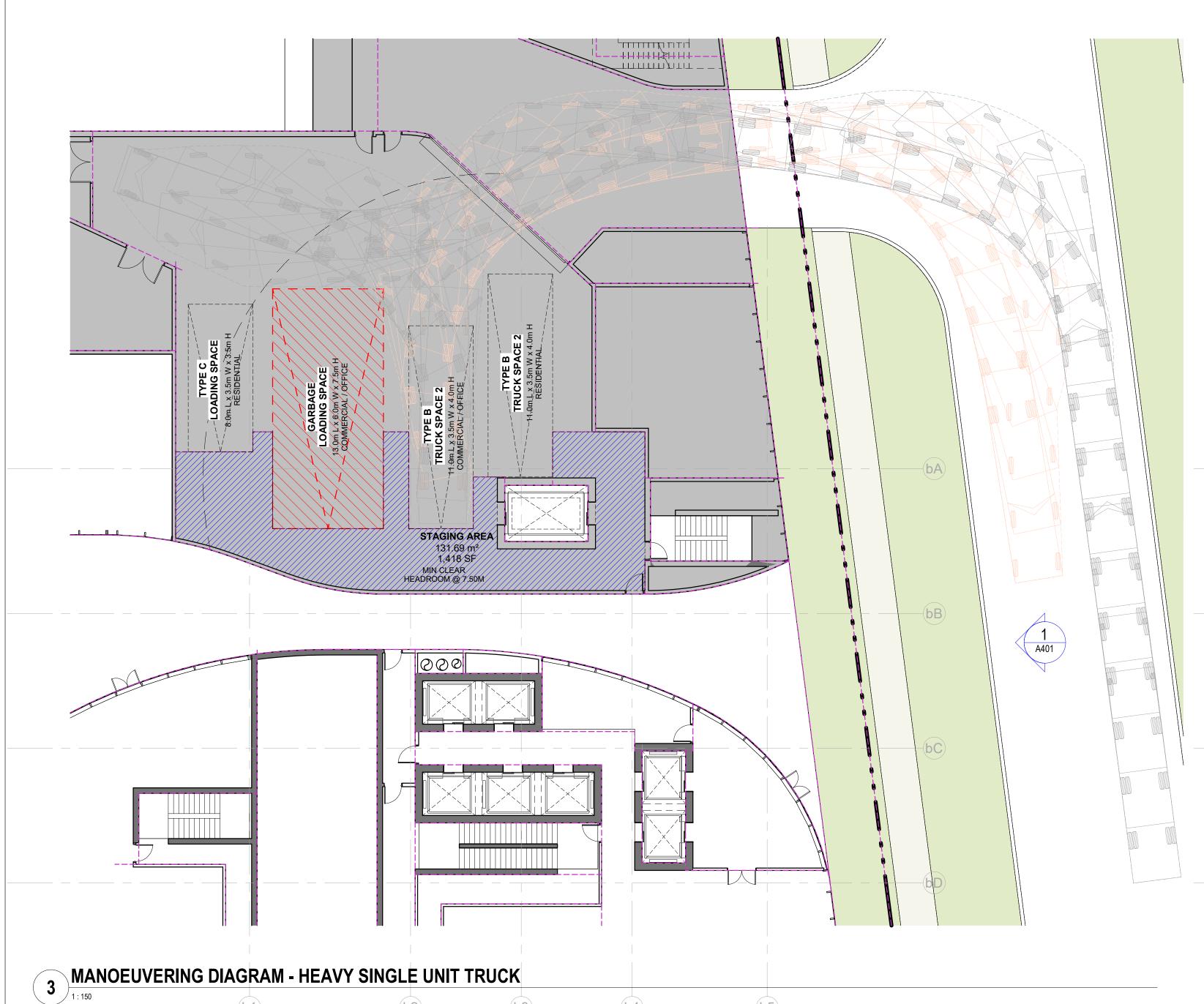


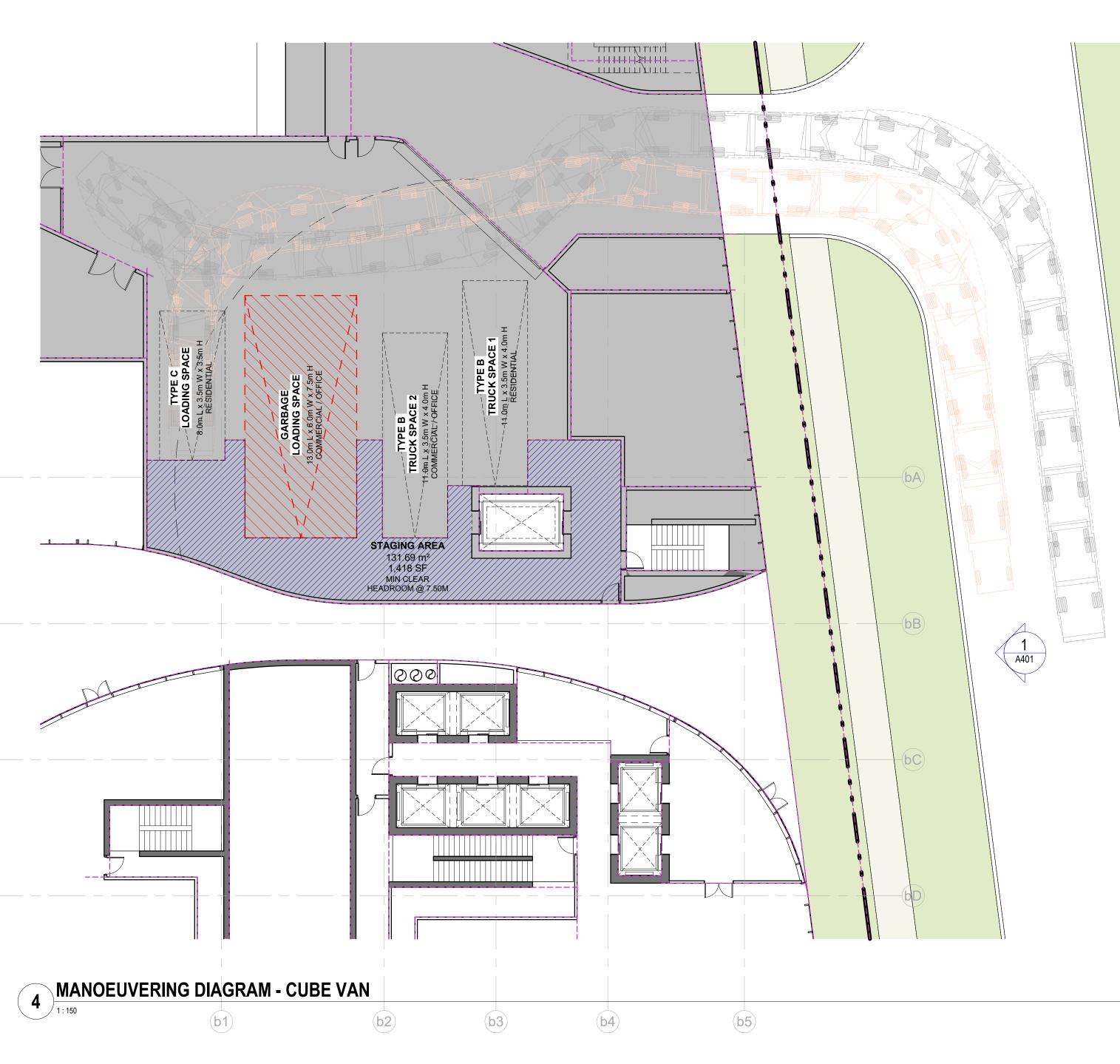
SITE PLAN @ ROOF LEVEL

Author	Che	ecker	
DRAWN BY	CHEC	KED BY	
23-107	1:200	ARCH E	2024-02-16
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WASTE MANAGEMENT NOTES:

- THIS DRAWING IS TO BE READ IN CONJUCTION WITH SHEET A211 & A206 (LEVEL 1 AND P1 PLANS
- SOLID WASTE MANAGEMENT WILL PROVIDE BULK LIFT COMPACTED GARBAGE, RECYCLING AND ORGANIC COLLECTION SERVICES FOR THE RESIDENTIAL COMPONENT OF THIS DEVELOPMENT.
- A TRAINED ON-SITE STAFF MEMBER MUST BE AVAILABLE TO MANOEUVER BINS FOR THE COLLECTION DRIVER AND ALSO ACT AS A FLAGMAN WHEN THE TRUCK IS REVERSING. IN THE EVENT THE ON-SITE STAFF MEMBER IS UNAVAILABLE AT THE TIME THE RESIDENTIAL COLLECTION VEHICLE ARRIVES AT THE SITE, THE COLLECTION VEHICLE WILL LEAVE THE SITE AND NOT RETURN UNTIL THE NEXT SCHEDULED COLLECTION DAY.
- ALL ACCESS DRIVEWAYS TO BE USED BY THE COLLECTION VEHICLE WILL BE LEVEL ($\pm 8\%$) AT LEAST 4.5m WIDE THROUGHOUT THE SITE AND 6m WIDE AT ENTRANCES AND EXITS, HAVING A MINIMUM 4.5m CLEARANCE UNDER OVERHEAD DOORS.
- THE WASTE LOADING SPACE WILL BE CONSTRUCTED OF AT LEAST 200mm THICK (MIN.) REINFORCED CONCRETE, BE LEVEL (±2%), AND BE AT LEAST 6m WIDE X 13m LONG AND HAVE VERTICAL CLEARANCE OF 7.5m.
- IN ALL AREAS WHERE A COLLECTION VEHICLE IS REQUIRED TO DRIVE ONTO OR OVER A SUPPORT STRUCTURE, THE STRUCTURE IS TO BE DESIGNED TO SAFELY SUPPORT A FULLY LOADED COLLECTION VEHICLE AT 35 METRIC TONNES. SHARING OF WASTE LOADING SPACE FOR PURPOSES OF MOVING WILL BE SCHEDULED ACCORDING
- TO GARBAGE PICK UP TIMES. SHOULD THE WASTE LOADING SPACE BE NEEDED FOR USE BY COMMERCIAL SECTORS, THE COMMERCIAL COMPONENT MUST ARRANGE THIS USE SUCH THAT IT DOES NOT CONFLICT WITH ANY RESIDENTIAL USES.
- 8. TYPE B TRUCK SPACE 2 WILL BE RESTRICTED TO USE OUTSIDE THE WASTE COLLECTION WINDOW. THE STAGING PAD ABUTTING THE FRONT OF THE WASTE LOADING SPACE SHALL BE LEVEL (+/-2%), AND SHALL BE CONSTRUCTED OF A MINIMUM OF 200 mm REINFORCED CONCRETE.
- THE WASTE LOADING SPACE WILL BE USED BY BOTH RESIDENTIAL AND NON RESIDENTIAL/RETAIL SECTORS. THE NON RESIDENTIAL RETAIL MANAGEMENT MUST ARRANGE FOR THEIR COLLECTION DAYS TO BE SCHEDULED ON DIFFERENT DAYS FROM THOSE OF THE RESIDENTIAL COLLECTION DAYS. FAILURE TO COMPLY WITH THIS ARRANGEMENT WILL RESULT IN THE CANCELLATION OF RESIDENTIAL COLLECTION AT THIS SITE.
- BEFORE SOLID WASTE COLLECTION SERVICES ARE TO BEGIN, THE TOWN OF OAKVILLE & REGION OF HALTON WILL NEED TO BE PROVIDED WITH A LETTER CERTIFIED BY A PROFESSIONAL ENGINEER THAT IN ALL CASES WHERE A COLLECTION VEHICLE IS REQUIRED TO DRIVE ONTO OR OVER A SUPPORTED STRUCTURE, THAT THE STRUCTURE CAN SAFELY SUPPORT A FULLY LOADED COLLECTION VEHICLE (35 METRIC TONNES) AND CONFORM TO THE FOLLOWING:
- i) DESIGN CODE ONTARIO BUILDING CODE ii) DESIGN LOAD - CITY BULK LIFT VEHICLE IN ADDITION TO BUILDING CODE REQUIREMENTS iii) IMPACT FACTOR - 5% FOR MAXIMUM VEHICULAR SPEEDS TO 15KM/H AND 30% FOR HIGHER
- DOUBLE DOORS (MINIMUM 2.2m WIDTH) TO BE PROVIDED TO ACCESS EACH WASTE STORAGE (AND BULKY WASTE STORAGE) ROOM. THESE DOORS SHALL OPEN OUTWARDS TO MAXIMIZE STORAGE
- WASTE STORAGE ROOMS TO HAVE A HOSE BIB AND FLOOR DRAIN FOR WASHING AND CLEANING OF THE ROOM AND WASTE CONTAINERS.
- THE AIR EXCHANGE RATE FOR WASTE STORAGE ROOMS TO BE A MINIMUM OF ONE-CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FLOOR SPACE (1 CFM/FT^2).
- THIS DRAWING TO BE READ IN CONJUNCTION WITH R.J. BURNSIDE & ASSOCIATES LIMITED, SOLID WASTE MANAGEMENT PLAN.
- WASTE BINS AND CARTS SHOWN ON THESE DRAWINGS ARE REPRESENTATIONAL ONLY.

TABLE 1: WASTE CONTAINER COMPUTATION

WASTE STREAM	CONTAINER TYPES	AREA (SQM)	NUMBER OF RESIDENTIAL UNITS SERVICED PER BIN
GARBAGE (COMPACTED)	3 CUBIC YARD FRONT-LIFT BIN	2.27	54
RECYCLING (UNCOMPACTED)	4 CUBIC YARD FRONT-LIFT BIN	2.78	56
ORGANICS	360 L SEMI-AUTOMATED CART	0.80	25

TABLE 2: REQUIRED RESIDENTIAL WASTE STORAGE ROOM AREA

	NUMBER OF RESIDENTIAL UNITS	APPROXIMATE WASTE STORAGE ROOM SPATIAL REQUIREMENT (SQM) **
BUILDING A	694	191.01
BUILDING B	504	201.77
TOTAL	<u>1198</u>	392.78
** EXCLUDES 10 SO	QM REQUIRED FOR BULKY WASTE ST	ORAGE

TABLE 3: WASTE CONTAINER COUNTS

NUMBER OF RESIDENTIAL UNITS		694	504
WASTE STREAM	CONTAINER	BUILDING A # BINS	BUILDING B # BINS
GARBAGE (COMPACTED)	3 YARD³ FRONT-LIFT	14	11
RECYCLING	4 YARD³ YARD FRONT-LIFT	14	10
ORGANICS	360 L SEMI- AUTOMATED CART	29	22

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BA Consulting Group Limited
300-45 St. Clair Avenue West, Toronto, ON, M4V 1K9
T. 416.961.7110

R.J. Burnside & Asscoiates Limited T. 1.800.265.9662

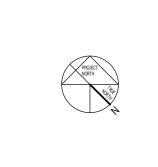
SOLID WASTE MANAGEMENT

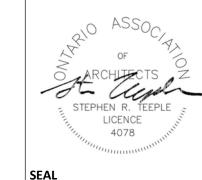
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1-90 Wingold Avenue, Toronto, ON, Canada M6B 1P5
T. 416.628.8038

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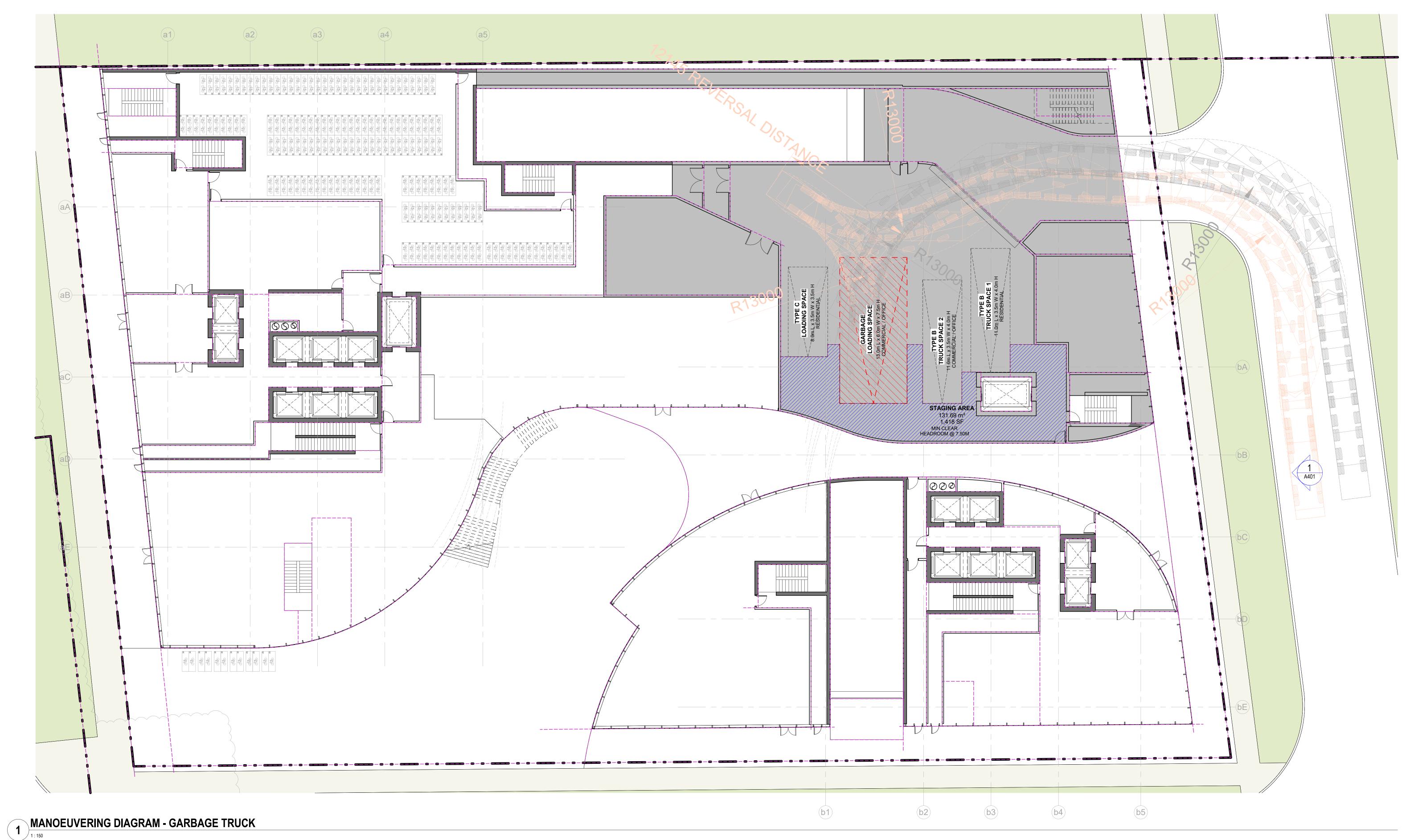
157 & 165 Cross Avenue, Oakville, ON, Canada





LOADING PLAN

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WASTE MANAGEMENT NOTES:

- THIS DRAWING IS TO BE READ IN CONJUCTION WITH SHEET A211 & A206 (LEVEL 1 AND P1 PLANS
- SOLID WASTE MANAGEMENT WILL PROVIDE BULK LIFT COMPACTED GARBAGE, RECYCLING AND ORGANIC COLLECTION SERVICES FOR THE RESIDENTIAL COMPONENT OF THIS DEVELOPMENT.
- A TRAINED ON-SITE STAFF MEMBER MUST BE AVAILABLE TO MANOEUVER BINS FOR THE COLLECTION DRIVER AND ALSO ACT AS A FLAGMAN WHEN THE TRUCK IS REVERSING. IN THE EVENT THE ON-SITE STAFF MEMBER IS UNAVAILABLE AT THE TIME THE RESIDENTIAL COLLECTION VEHICLE ARRIVES AT THE SITE, THE COLLECTION VEHICLE WILL LEAVE THE SITE AND NOT RETURN UNTIL THE NEXT SCHEDULED COLLECTION DAY.
- 4. ALL ACCESS DRIVEWAYS TO BE USED BY THE COLLECTION VEHICLE WILL BE LEVEL (±8%) AT LEAST 4.5m WIDE THROUGHOUT THE SITE AND 6m WIDE AT ENTRANCES AND EXITS, HAVING A MINIMUM 4.5m CLEARANCE UNDER OVERHEAD DOORS.
- THE WASTE LOADING SPACE WILL BE CONSTRUCTED OF AT LEAST 200mm THICK (MIN.) REINFORCED CONCRETE, BE LEVEL (±2%), AND BE AT LEAST 6m WIDE X 13m LONG AND HAVE VERTICAL
- IN ALL AREAS WHERE A COLLECTION VEHICLE IS REQUIRED TO DRIVE ONTO OR OVER A SUPPORT STRUCTURE, THE STRUCTURE IS TO BE DESIGNED TO SAFELY SUPPORT A FULLY LOADED COLLECTION VEHICLE AT 35 METRIC TONNES.
- SHARING OF WASTE LOADING SPACE FOR PURPOSES OF MOVING WILL BE SCHEDULED ACCORDING TO GARBAGE PICK UP TIMES. SHOULD THE WASTE LOADING SPACE BE NEEDED FOR USE BY COMMERCIAL SECTORS, THE COMMERCIAL COMPONENT MUST ARRANGE THIS USE SUCH THAT IT
- DOES NOT CONFLICT WITH ANY RESIDENTIAL USES. 8. TYPE B TRUCK SPACE 2 WILL BE RESTRICTED TO USE OUTSIDE THE WASTE COLLECTION WINDOW.
- 9. THE STAGING PAD ABUTTING THE FRONT OF THE WASTE LOADING SPACE SHALL BE LEVEL (+/-2%), AND SHALL BE CONSTRUCTED OF A MINIMUM OF 200 mm REINFORCED CONCRETE.
- 10. THE WASTE LOADING SPACE WILL BE USED BY BOTH RESIDENTIAL AND NON RESIDENTIAL/RETAIL SECTORS. THE NON RESIDENTIAL RETAIL MANAGEMENT MUST ARRANGE FOR THEIR COLLECTION DAYS TO BE SCHEDULED ON DIFFERENT DAYS FROM THOSE OF THE RESIDENTIAL COLLECTION DAYS. FAILURE TO COMPLY WITH THIS ARRANGEMENT WILL RESULT IN THE CANCELLATION OF RESIDENTIAL COLLECTION AT THIS SITE.
- BEFORE SOLID WASTE COLLECTION SERVICES ARE TO BEGIN, THE TOWN OF OAKVILLE & REGION OF HALTON WILL NEED TO BE PROVIDED WITH A LETTER CERTIFIED BY A PROFESSIONAL ENGINEER THAT IN ALL CASES WHERE A COLLECTION VEHICLE IS REQUIRED TO DRIVE ONTO OR OVER A SUPPORTED STRUCTURE, THAT THE STRUCTURE CAN SAFELY SUPPORT A FULLY LOADED COLLECTION VEHICLE (35 METRIC TONNES) AND CONFORM TO THE FOLLOWING:
 - i) DESIGN CODE ONTARIO BUILDING CODE ii) DESIGN LOAD - CITY BULK LIFT VEHICLE IN ADDITION TO BUILDING CODE REQUIREMENTS iii) IMPACT FACTOR - 5% FOR MAXIMUM VEHICULAR SPEEDS TO 15KM/H AND 30% FOR HIGHER
- 12. DOUBLE DOORS (MINIMUM 2.2m WIDTH) TO BE PROVIDED TO ACCESS EACH WASTE STORAGE (AND BULKY WASTE STORAGE) ROOM. THESE DOORS SHALL OPEN OUTWARDS TO MAXIMIZE STORAGE
- 13. WASTE STORAGE ROOMS TO HAVE A HOSE BIB AND FLOOR DRAIN FOR WASHING AND CLEANING OF THE ROOM AND WASTE CONTAINERS.
- 14. THE AIR EXCHANGE RATE FOR WASTE STORAGE ROOMS TO BE A MINIMUM OF ONE-CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FLOOR SPACE (1 CFM/FT^2).
- 15. THIS DRAWING TO BE READ IN CONJUNCTION WITH R.J. BURNSIDE & ASSOCIATES LIMITED, SOLID WASTE MANAGEMENT PLAN.
- WASTE BINS AND CARTS SHOWN ON THESE DRAWINGS ARE REPRESENTATIONAL ONLY.

TABLE 1: WASTE CONTAINER COMPUTATION

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ORGANICS	360 L SEMI-AUTOMATED CART	0.80	25

TABLE 2: REQUIRED RESIDENTIAL WASTE STORAGE ROOM AREA

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** EXCLUDES 10 SQ	M REQUIRED FOR BULKY WASTE ST	ORAGE

TABLE 3: WASTE CONTAINER COUNTS

NUMBER OF RESI	DENTIAL UNITS	694	504
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RECYCLING	4 YARD³ YARD FRONT-LIFT	14	10
ORGANICS	360 L SEMI- AUTOMATED CART	29	22

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ELECTRICAL

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BA Consulting Group Limited 300-45 St. Clair Avenue West, Toronto, ON, M4V 1K9 T. 416.961.7110 SOLID WASTE MANAGEMENT

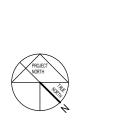
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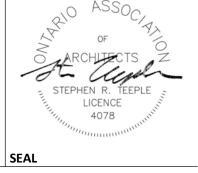
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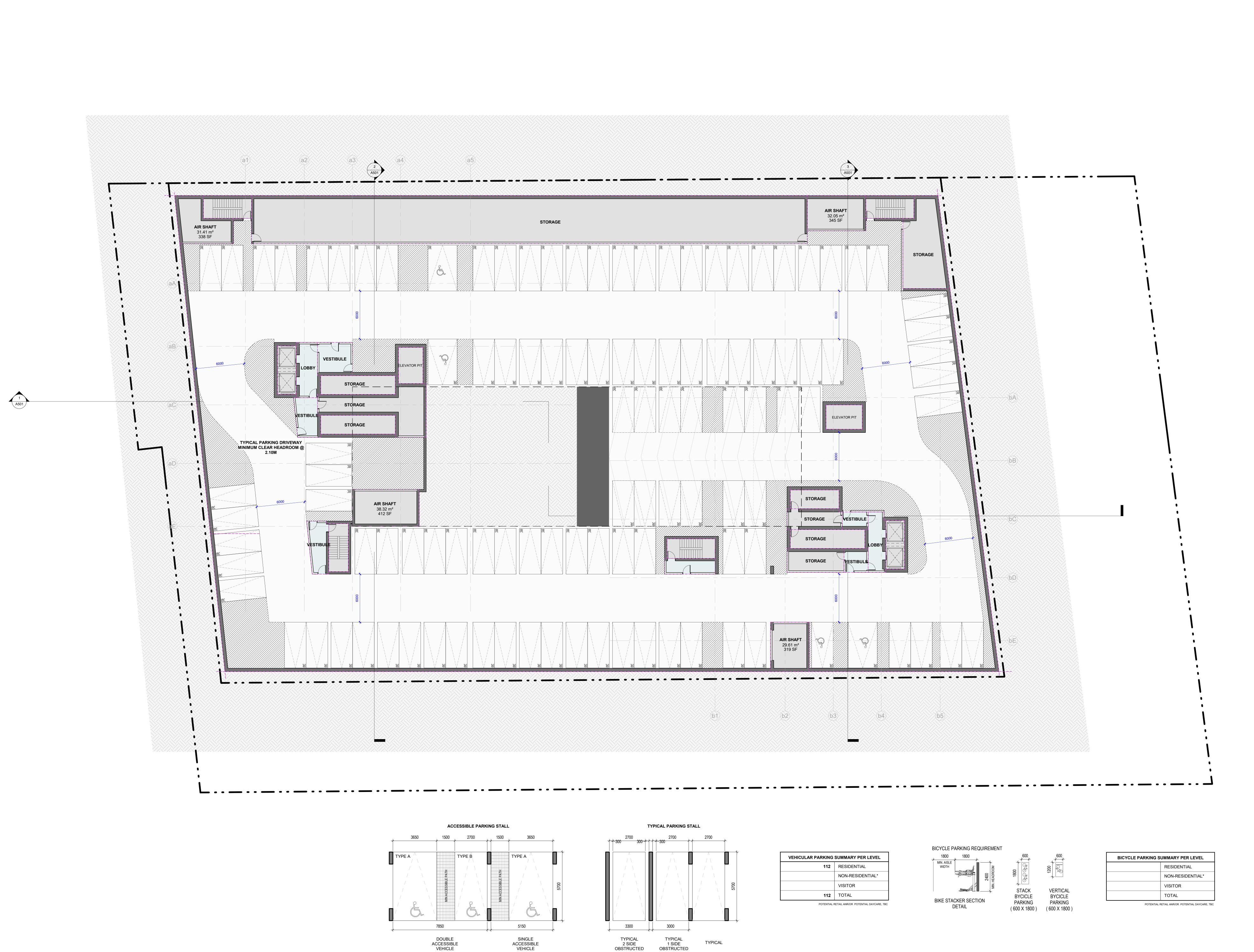
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WASTE MANAGEMENT PLAN



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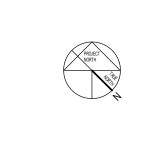
CLIENT

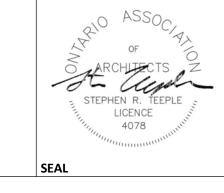
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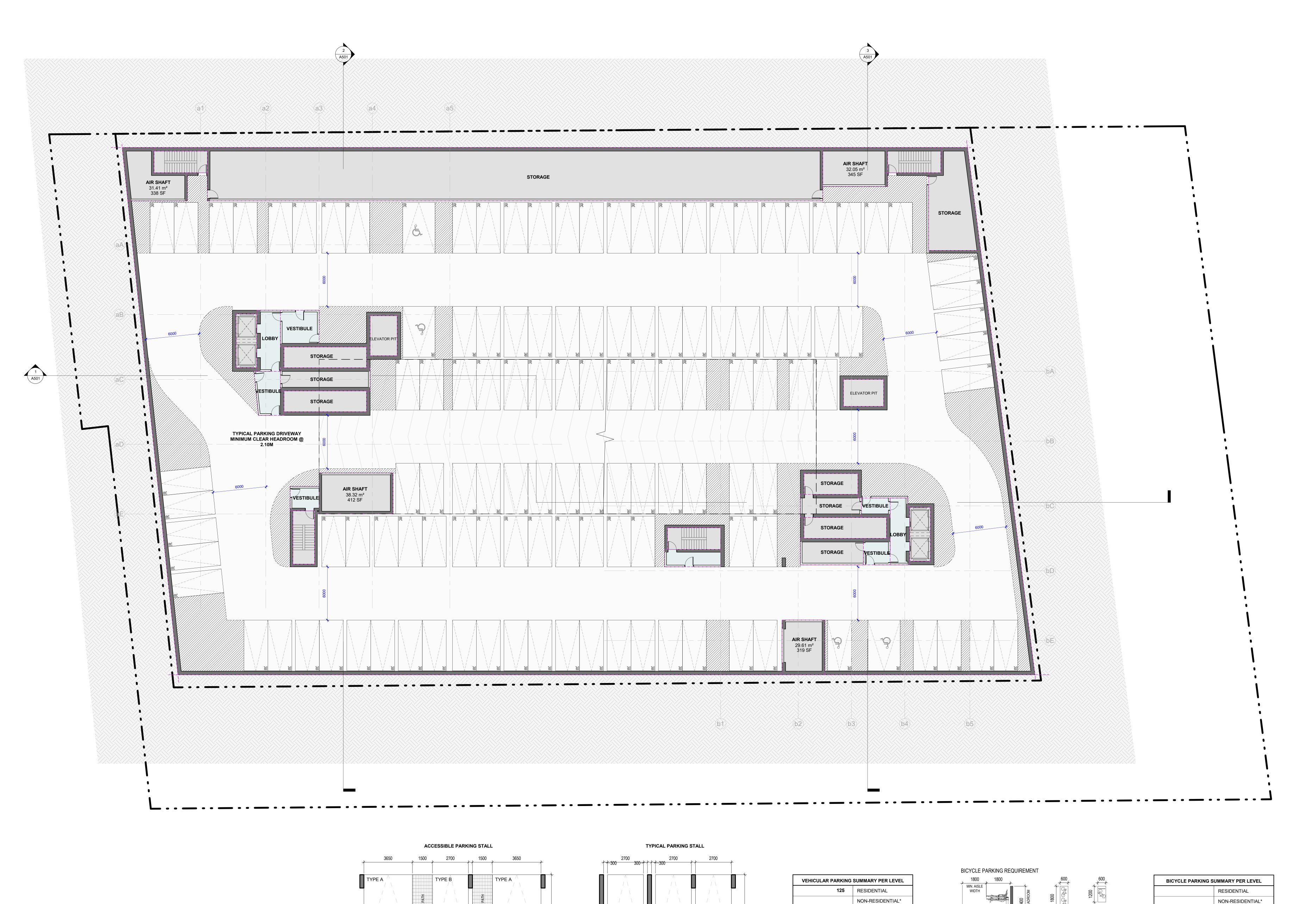
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LEVEL P7 PLAN

Author	Che	cker	
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23-107	As indicated	ARCH E	2024-02-16
PROJ NO	SCALE	FORMAT	PLOT DATE



3000

TYPICAL 1 SIDE OBSTRUCTED

3300

TYPICAL 2 SIDE OBSTRUCTED

5150

SINGLE ACCESSIBLE VEHICLE

DOUBLE ACCESSIBLE VEHICLE VISITOR

POTENTIAL RETAIL ANR/OR POTENTIAL DAYCARE, TBC

125 TOTAL

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ELECTRICAL

LANDSCAPE

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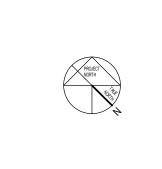
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VISITOR

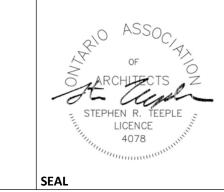
POTENTIAL RETAIL ANR/OR POTENTIAL DAYCARE, TBC

TOTAL

STACK BYCICLE PARKING

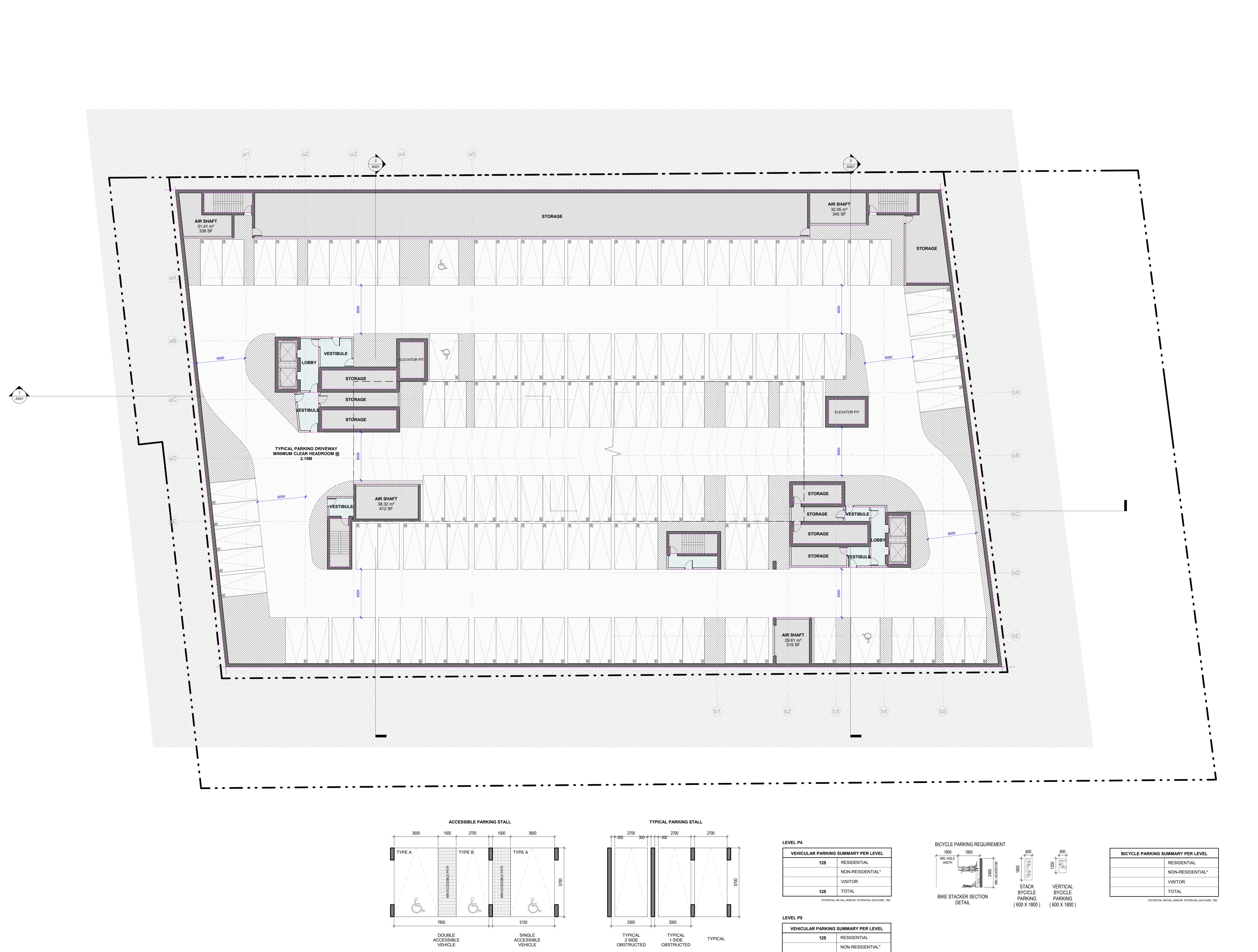
BIKE STACKER SECTION DETAIL VERTICAL BYCICLE PARKING

(600 X 1800) (600 X 1800)



LEVEL P6 PLAN

	Author	Chec	ker	
_	DRAWN BY	CHECK	ED BY	
	23-107	As indicated	ARCH E	2024-02-16
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VISITOR

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CIVIL

Trafalgar Engineering Limited

CIVIL
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T. 1.800.265.9662

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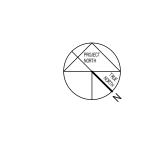
CLIENT

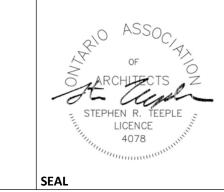
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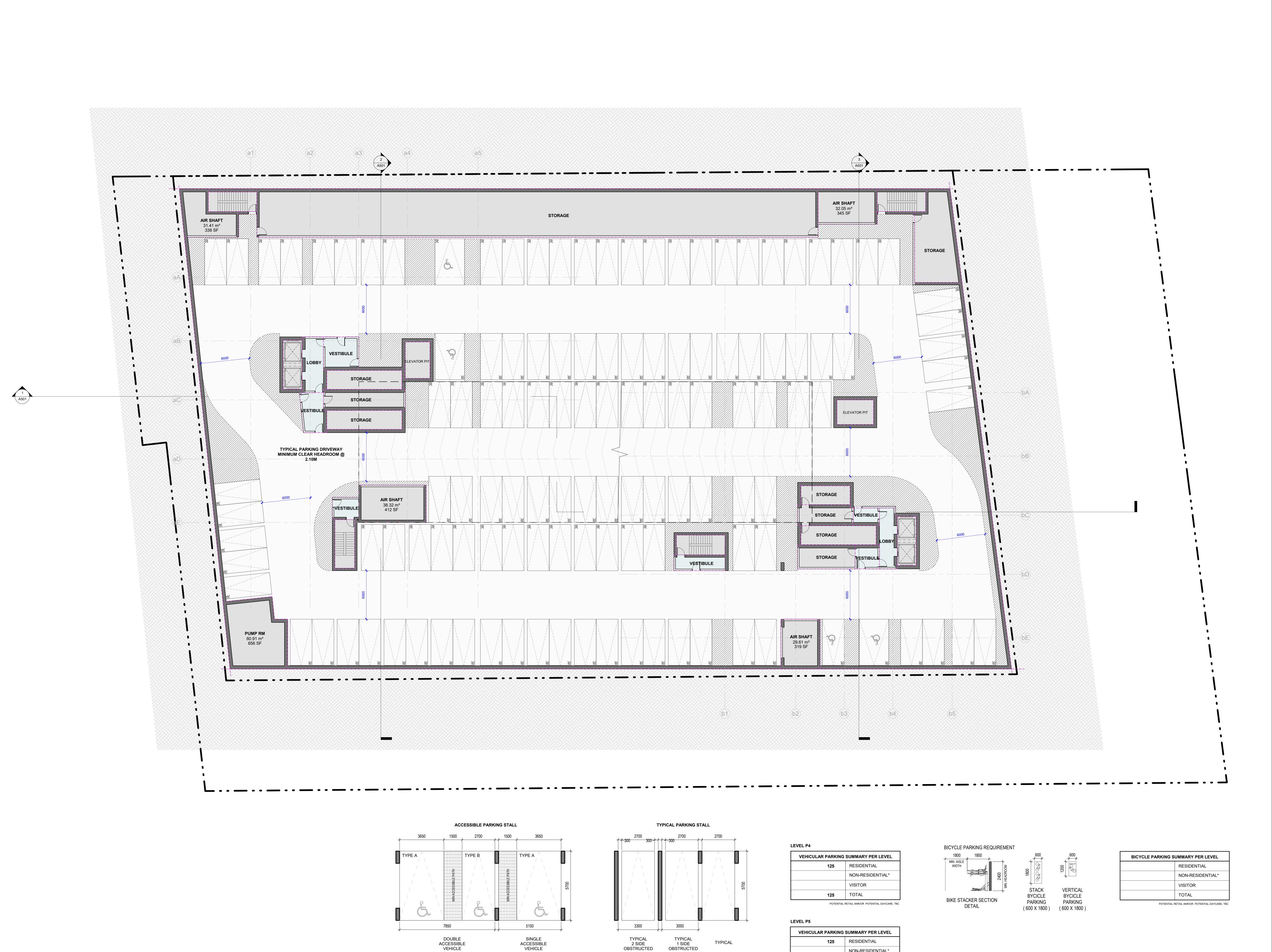




LEVEL P5 PLAN

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1 2024-02-16 ISSUED FOR OPA/ZBA

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ELECTRICAL

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T. 905.338.3366

BA Consulting Group Limited
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T. 416.961.7110 SOLID WASTE MANAGEMENT R.J. Burnside & Asscoiates Limited 1465 Pickering Parkway, Pickering, ON, L1V 7G7 T. 1.800.265.9662

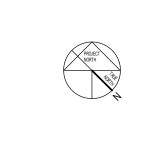
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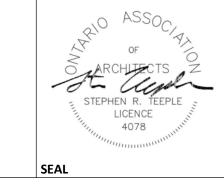
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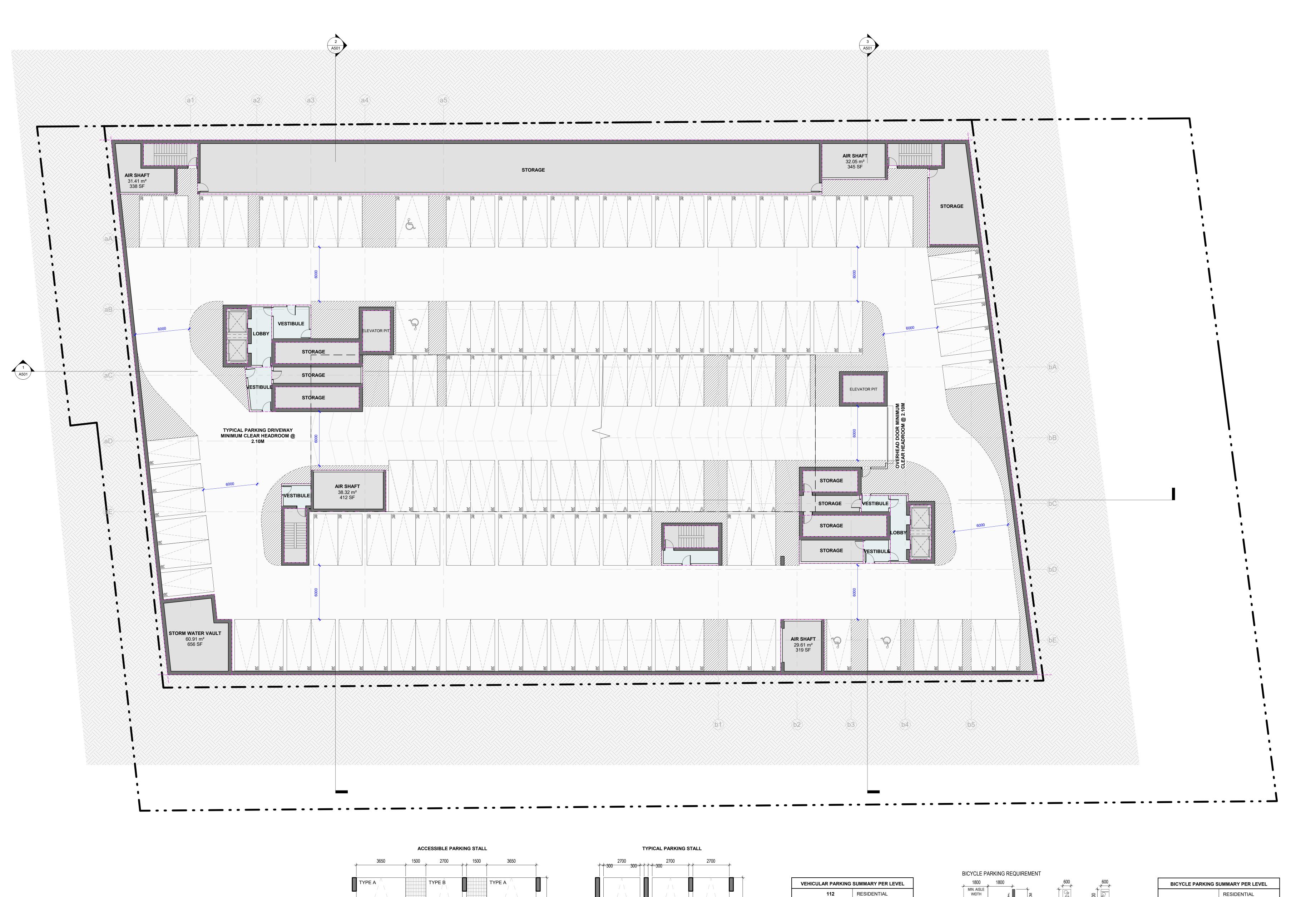
157 & 165 Cross Avenue, Oakville, ON, Canada





LEVEL P4 PLAN

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3000

TYPICAL 1 SIDE OBSTRUCTED

3300

TYPICAL 2 SIDE OBSTRUCTED

7850

DOUBLE ACCESSIBLE VEHICLE 5150

SINGLE ACCESSIBLE VEHICLE NON-RESIDENTIAL*

POTENTIAL RETAIL ANR/OR POTENTIAL DAYCARE, TBC

VISITOR

125 TOTAL

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PLANNING
Bousfields Inc.

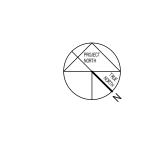
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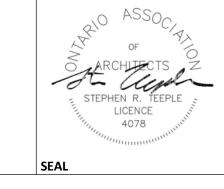
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TOTAL

STACK BYCICLE PARKING

BIKE STACKER SECTION DETAIL VERTICAL BYCICLE PARKING

(600 X 1800) (600 X 1800)



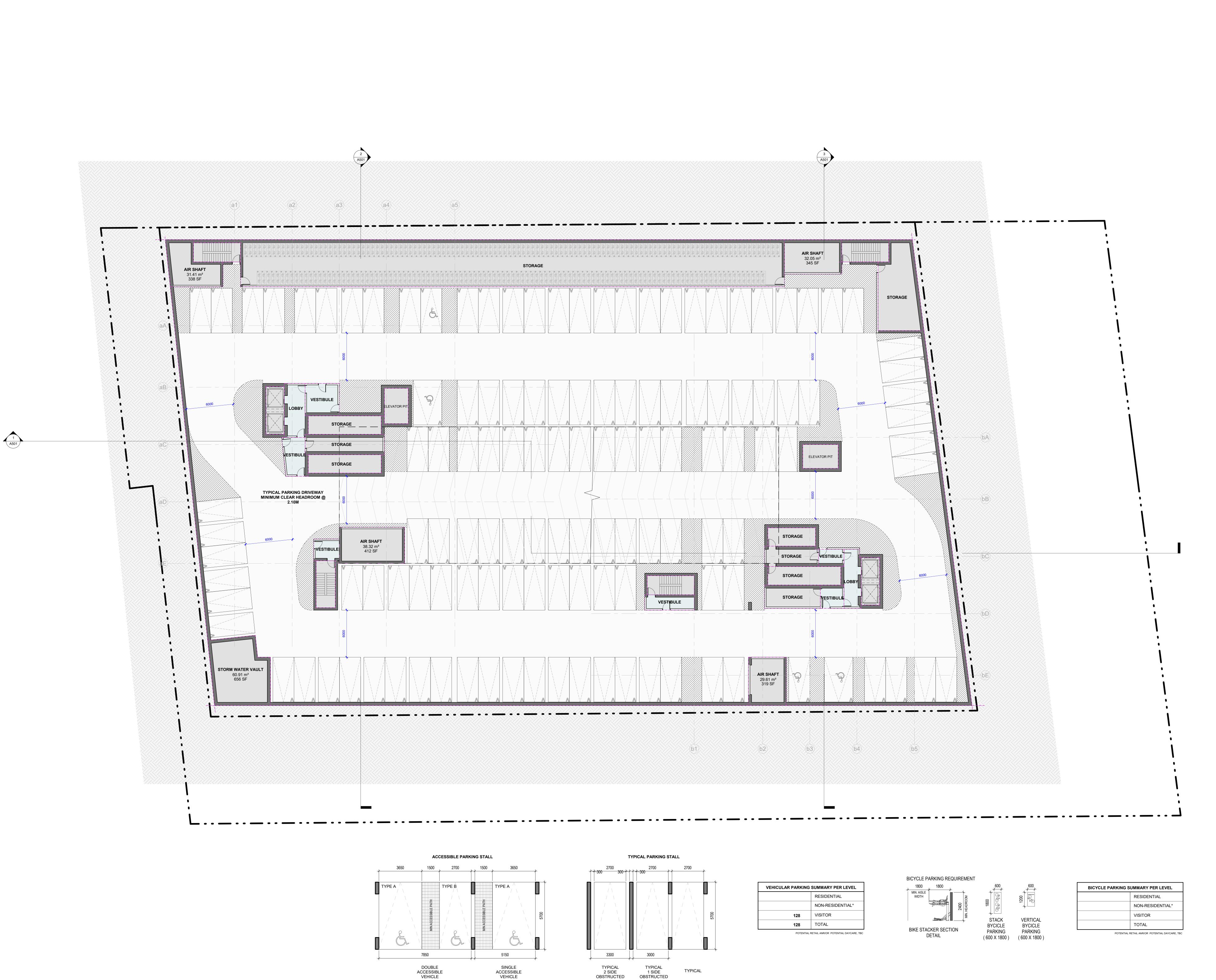
LEVEL P3 PLAN

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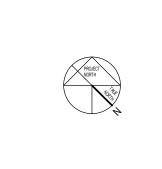
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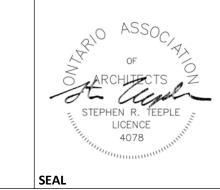
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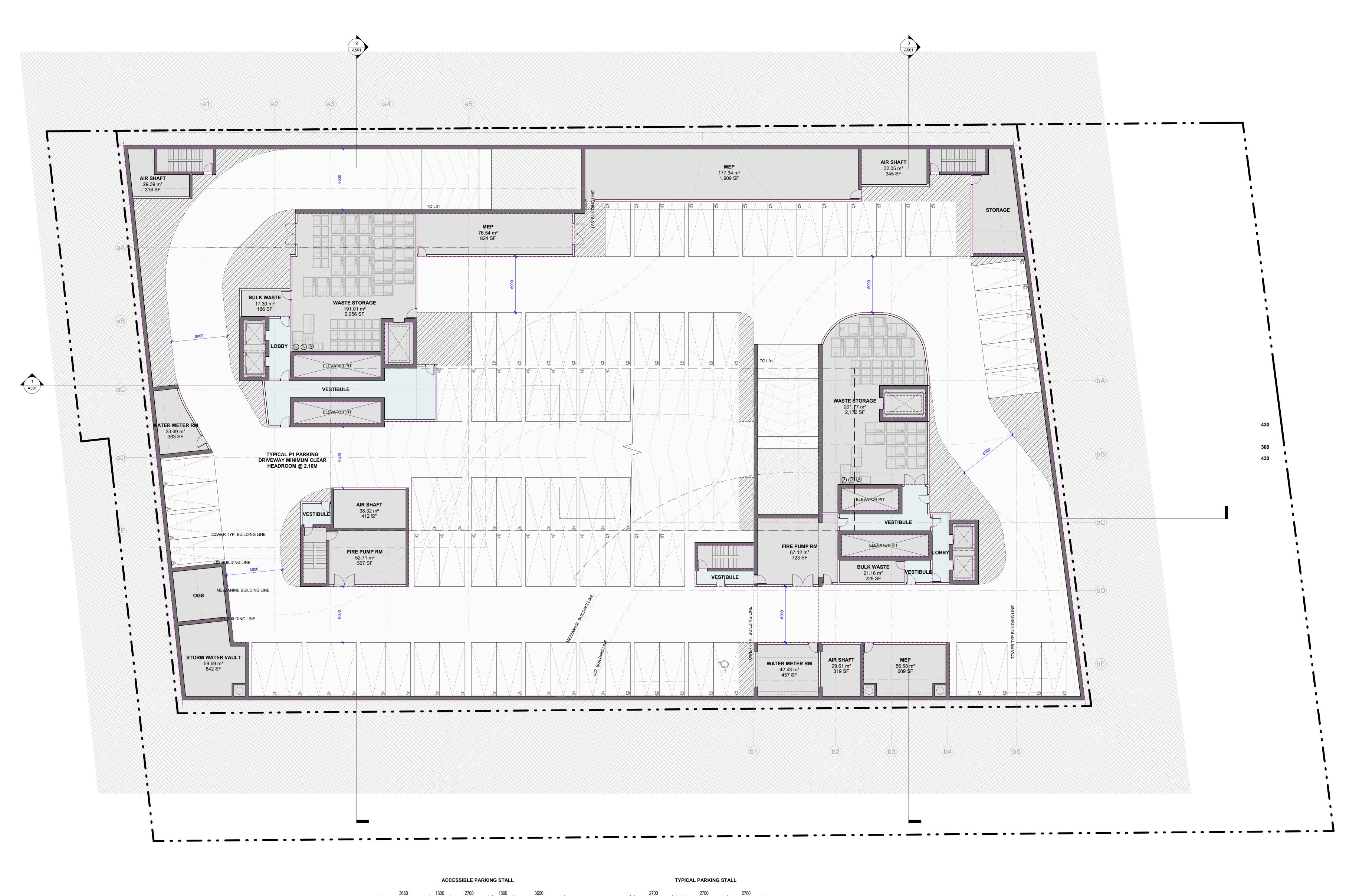
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LEVEL P2 PLAN

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3000

TYPICAL 1 SIDE OBSTRUCTED

3300

TYPICAL 2 SIDE OBSTRUCTED

5150

SINGLE ACCESSIBLE VEHICLE

DOUBLE ACCESSIBLE VEHICLE

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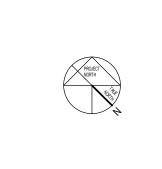
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BICYCLE PARKING SUMMARY PER LEVEL

RESIDENTIAL

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VISITOR

TOTAL

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BICYCLE PARKING REQUIREMENT

BIKE STACKER SECTION DETAIL STACK BYCICLE PARKING VERTICAL BYCICLE PARKING

(600 X 1800) (600 X 1800)

VEHICULAR PARKING SUMMARY PER LEVEL

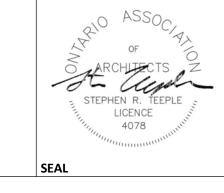
39 VISITOR

79 TOTAL

RESIDENTIAL

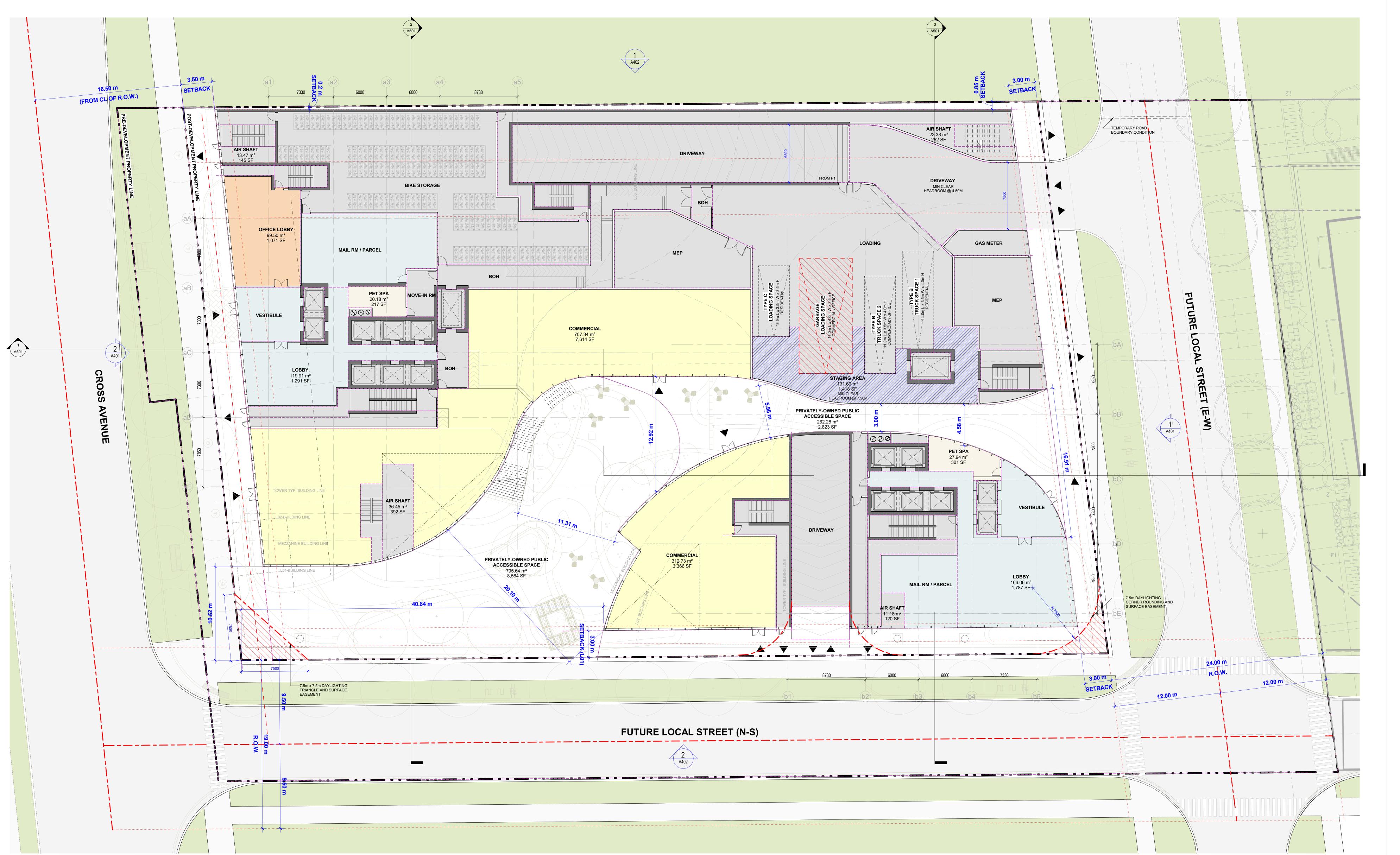
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LEVEL P1 PLAN

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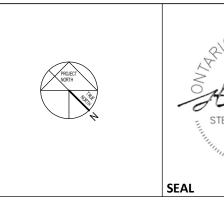
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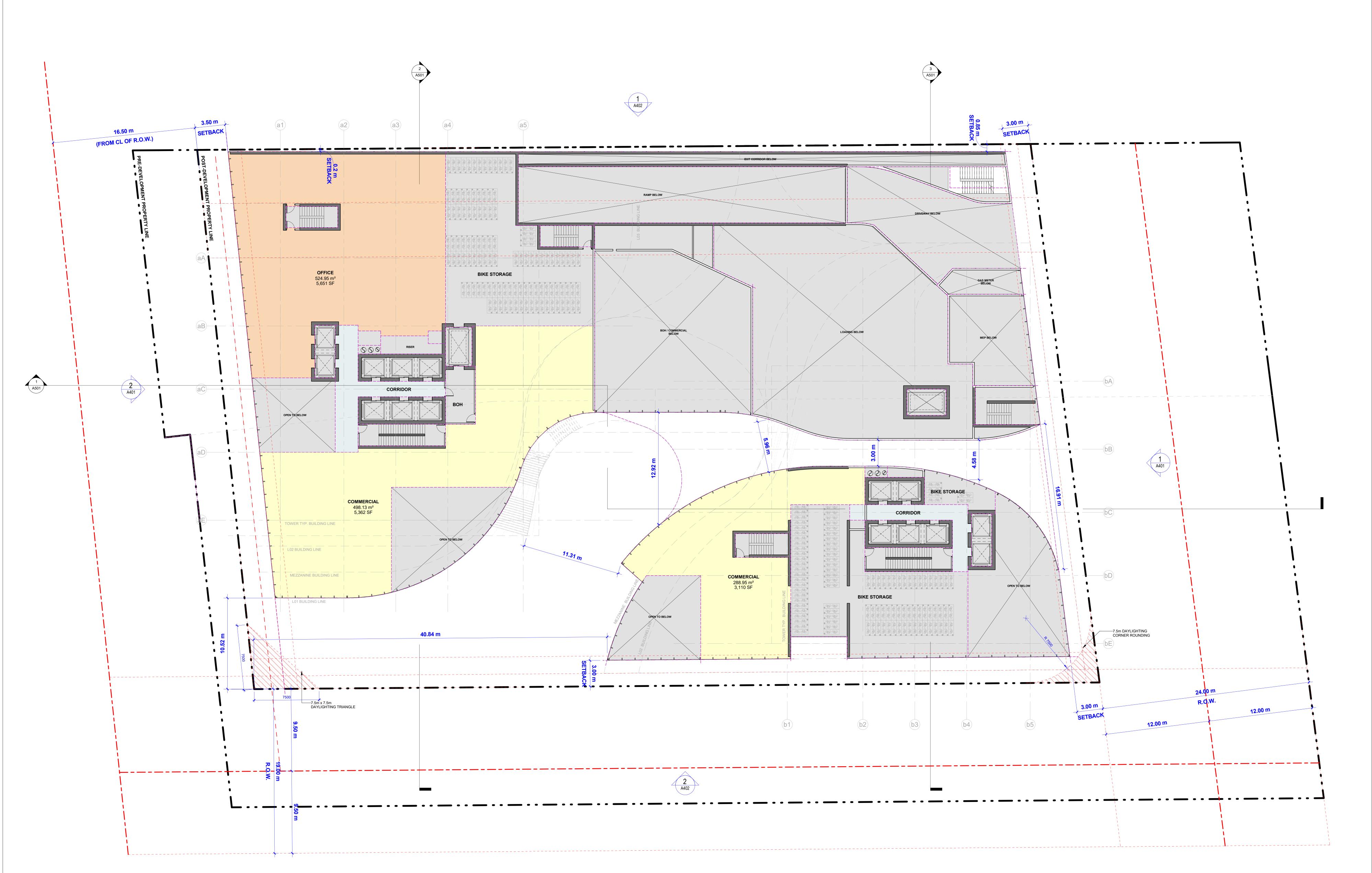
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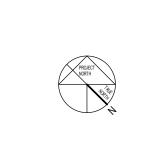
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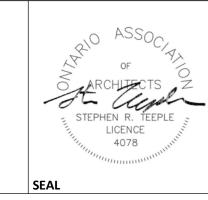
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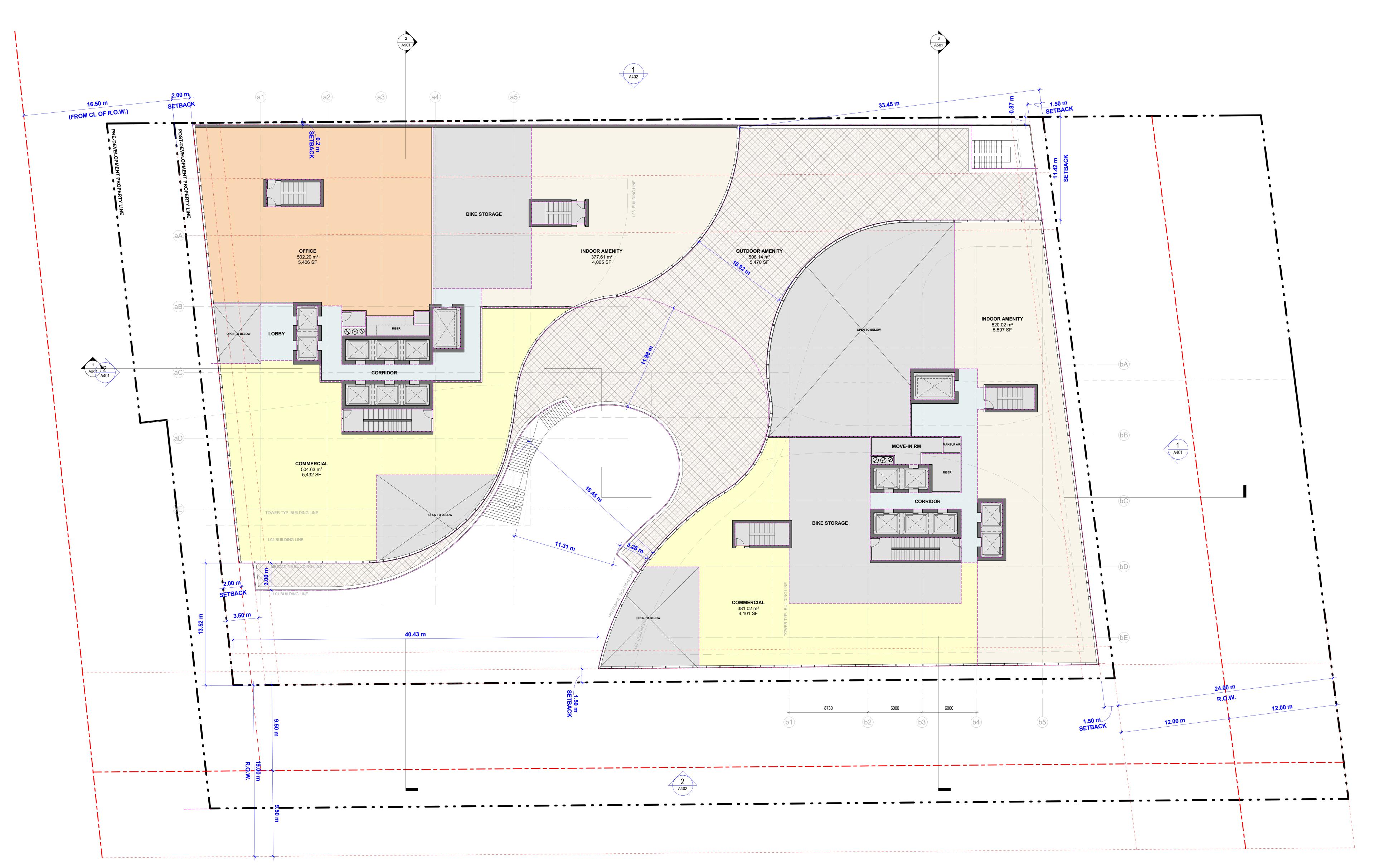
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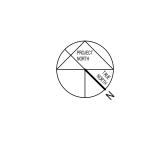
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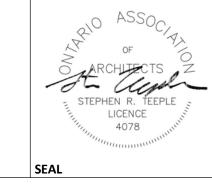
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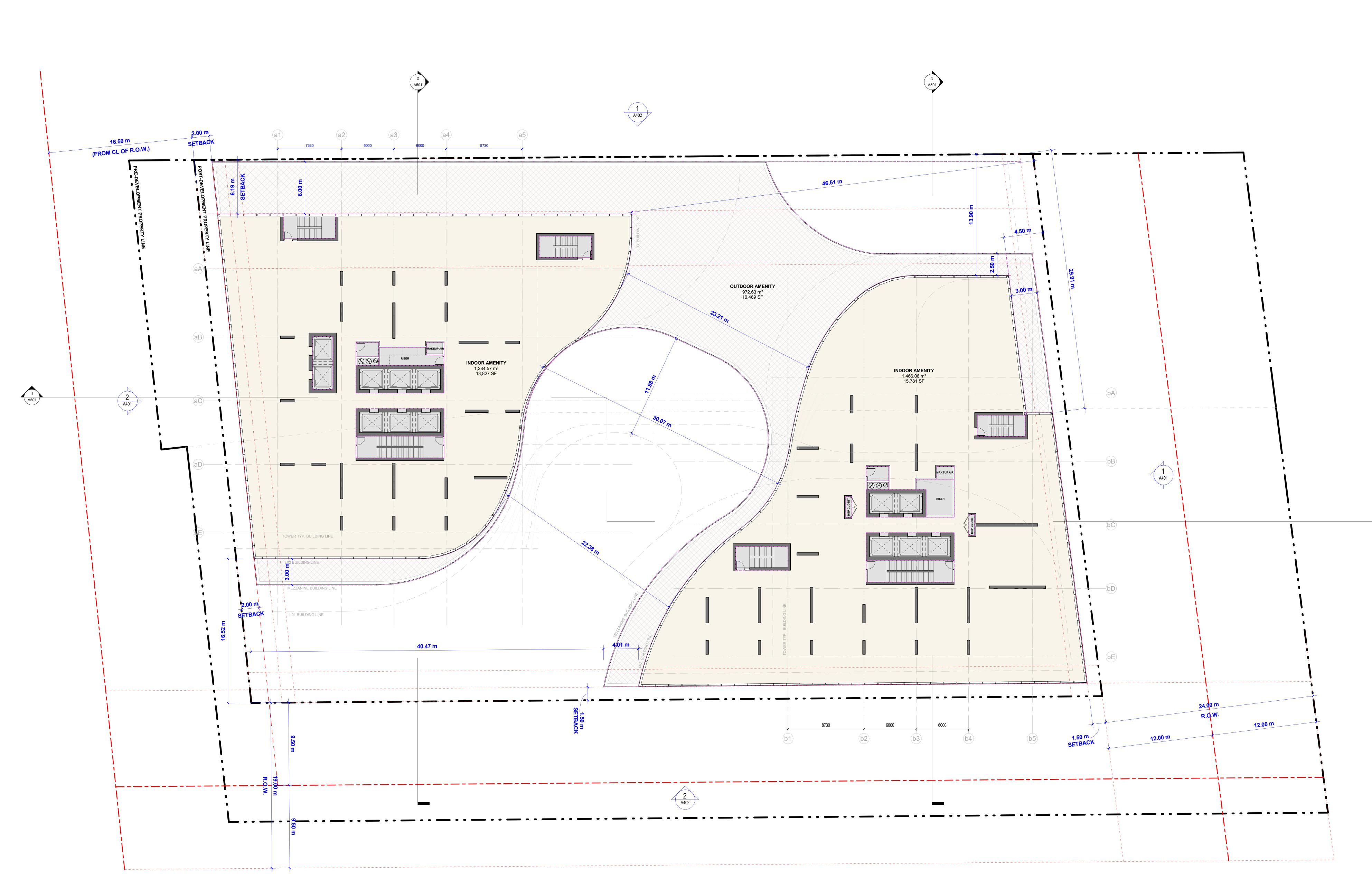
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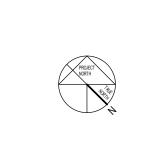
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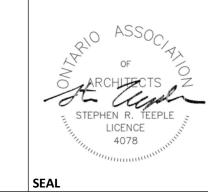
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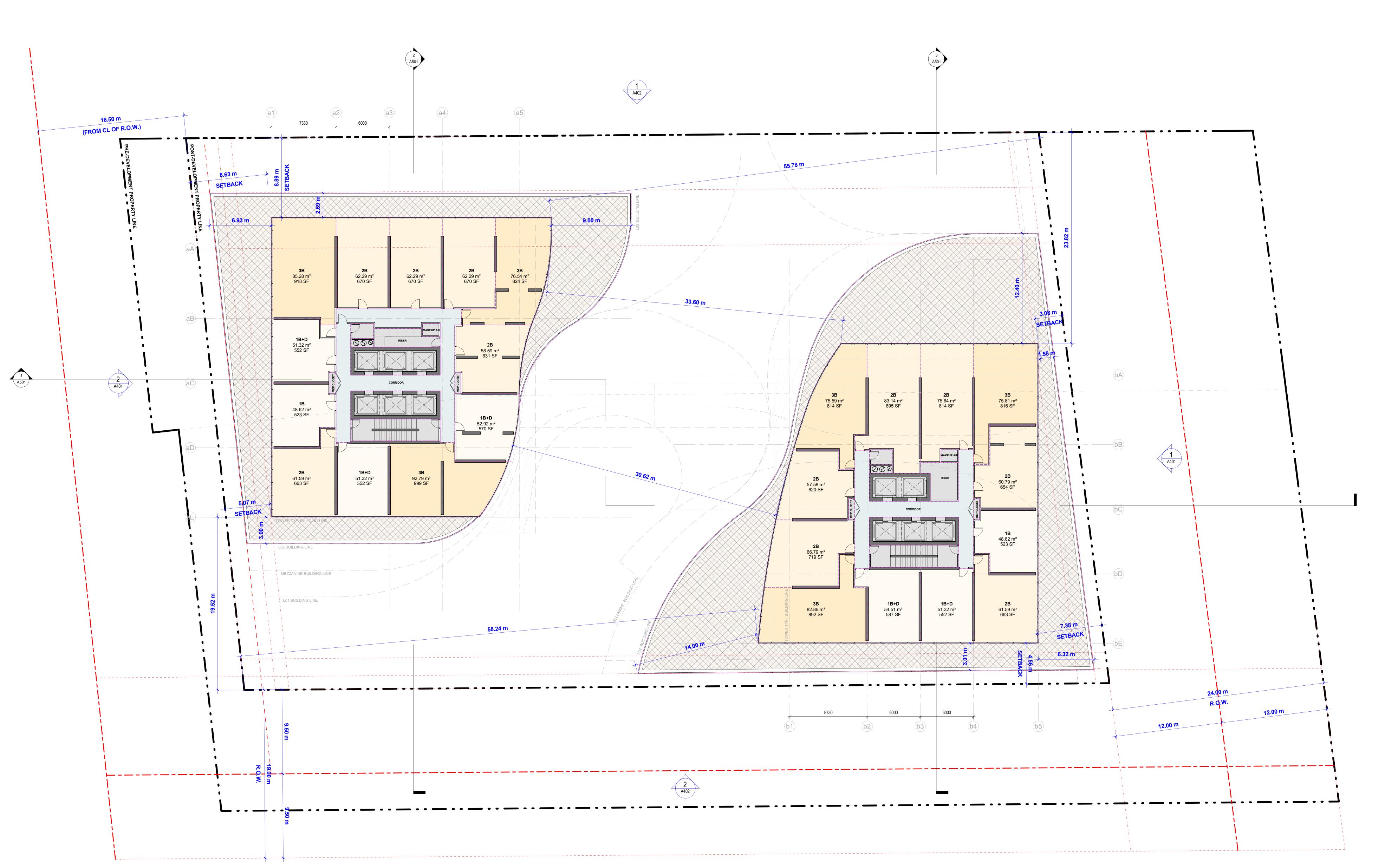
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LEVEL 3 PLAN

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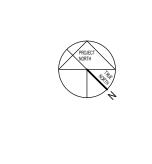
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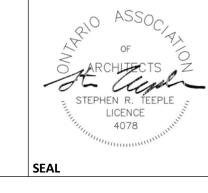
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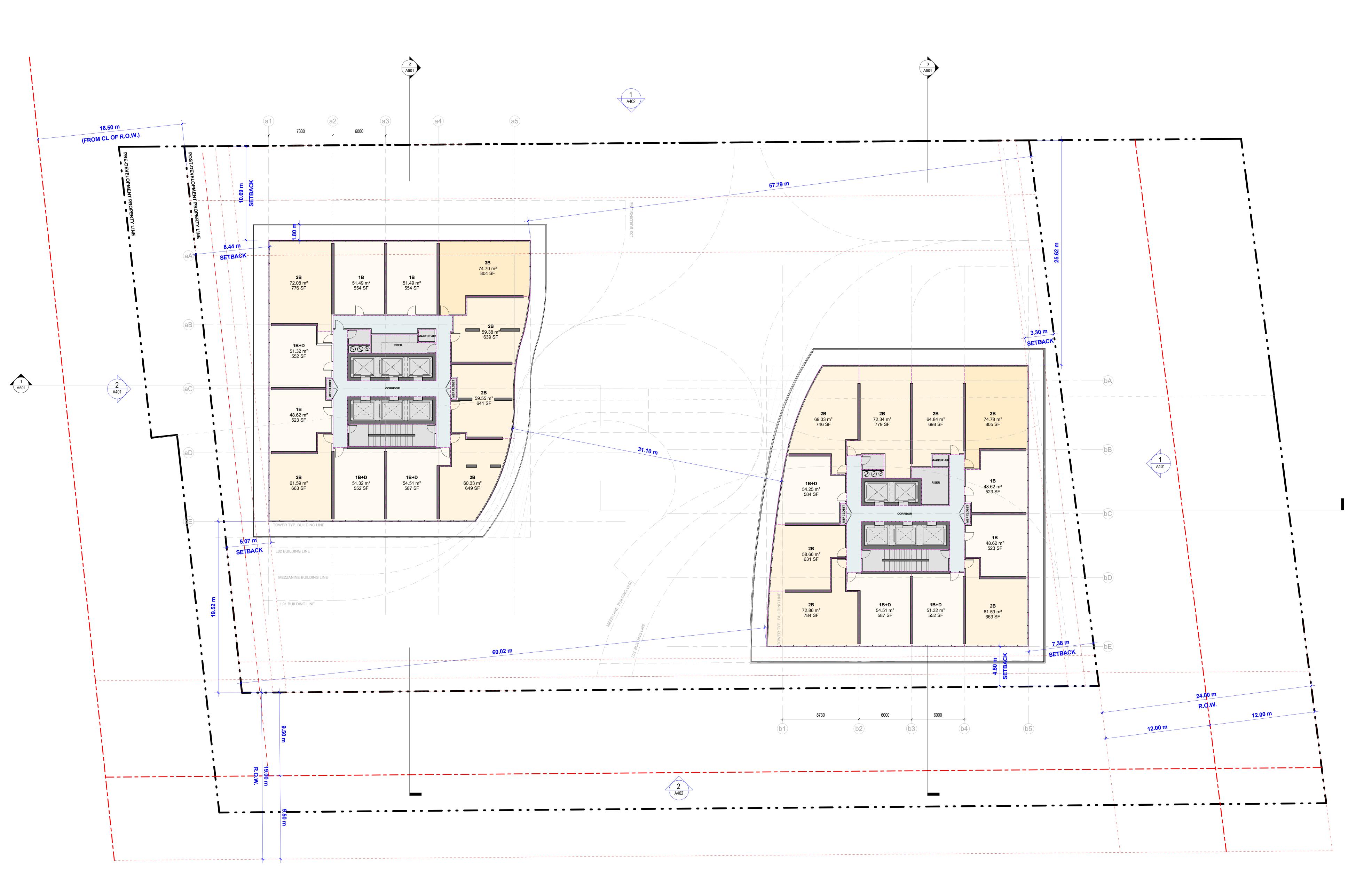
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LEVEL 4 PLAN

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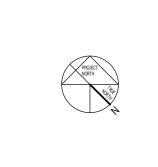
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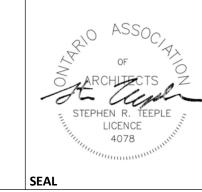
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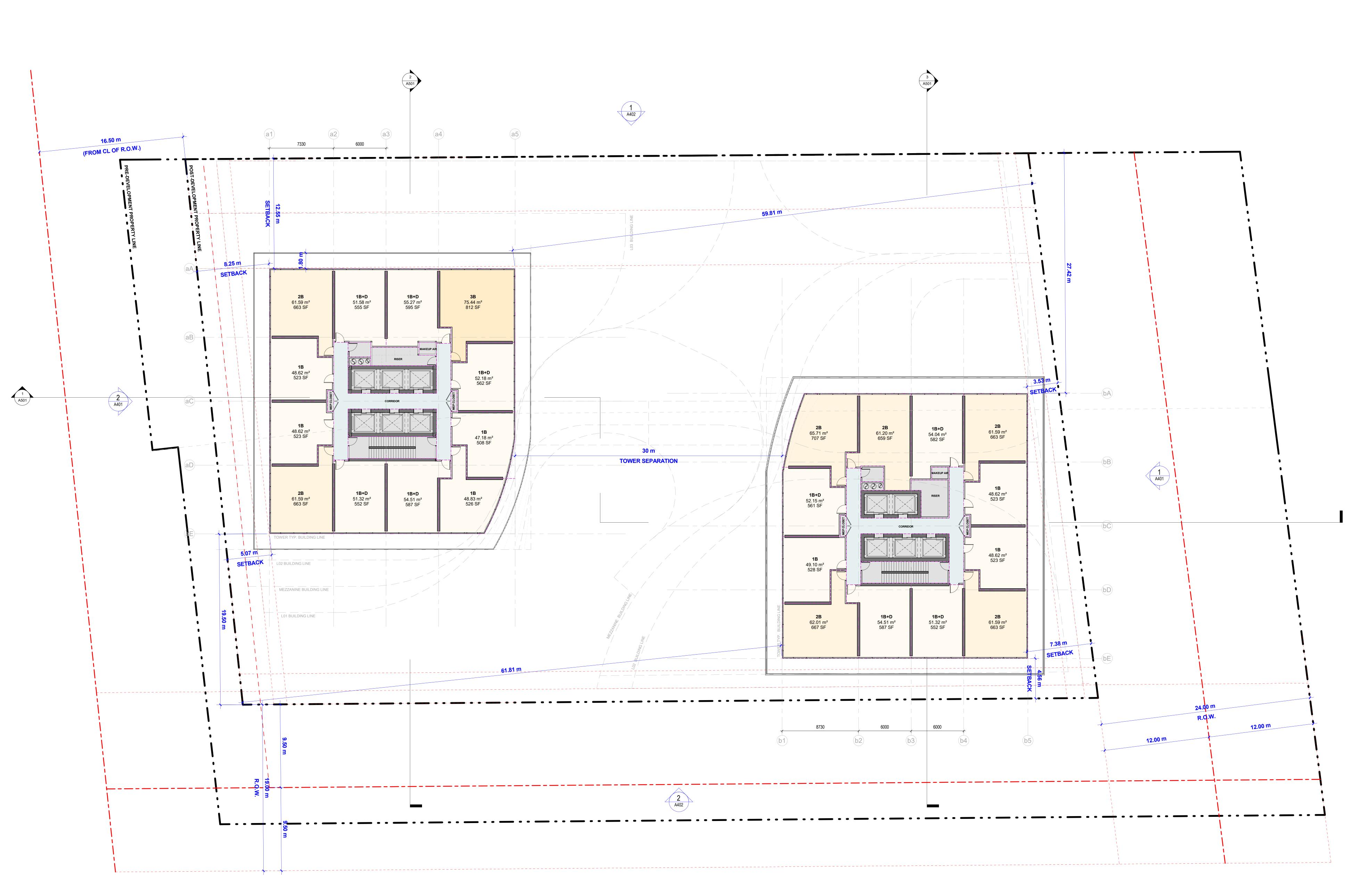
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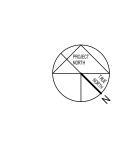
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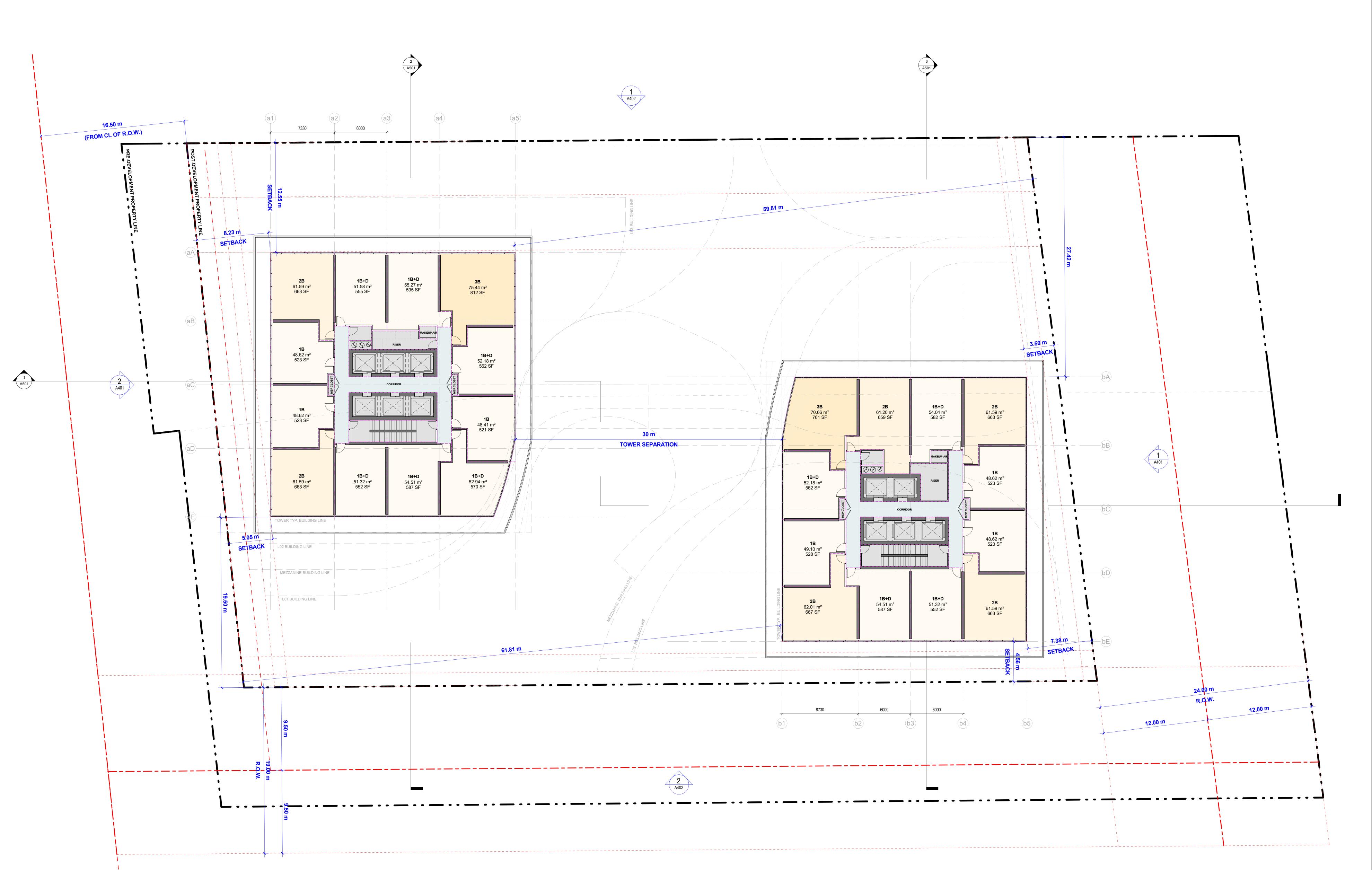
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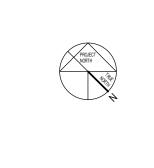
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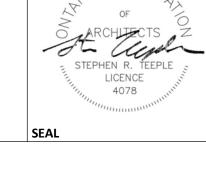
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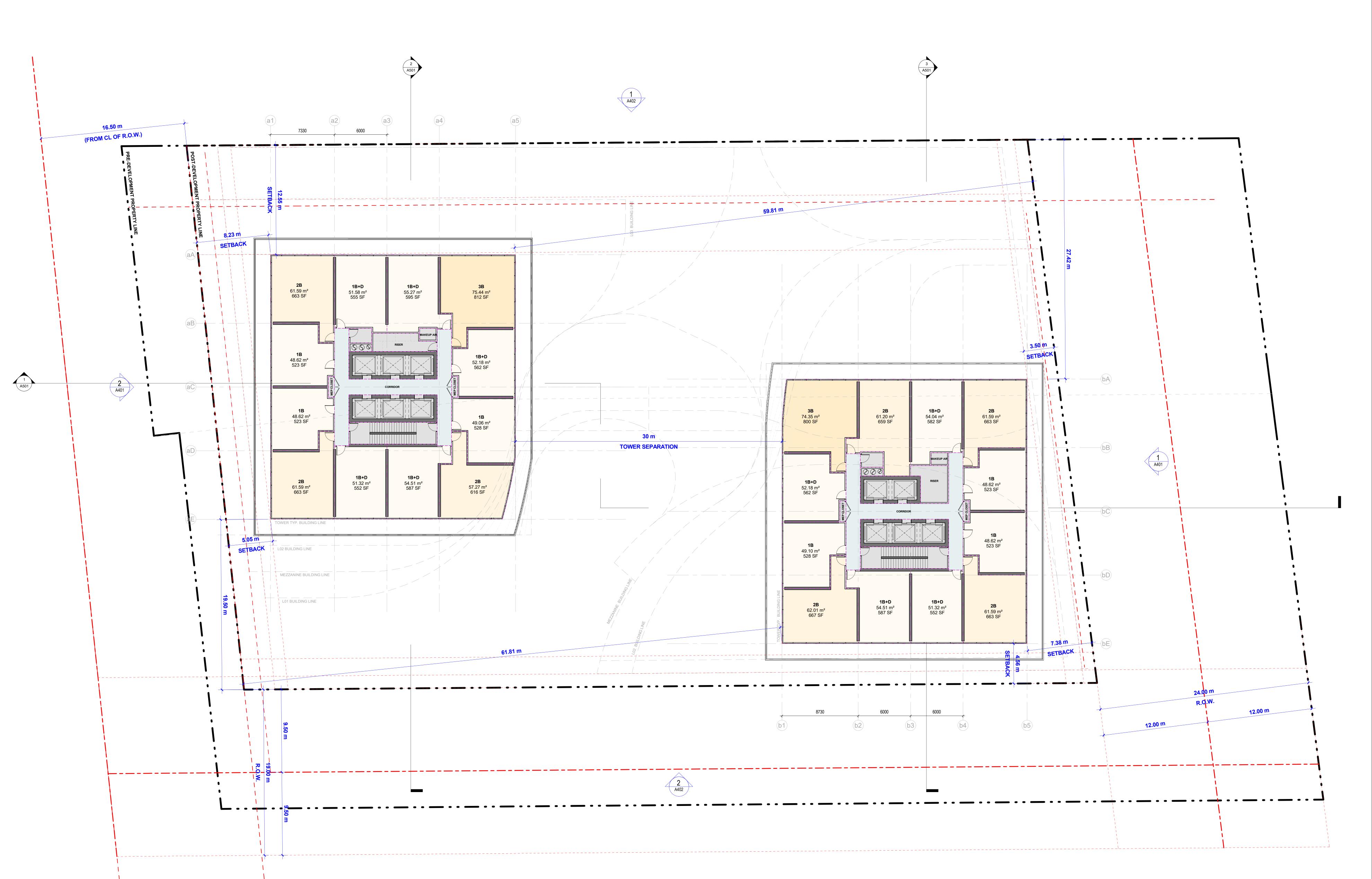
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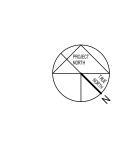
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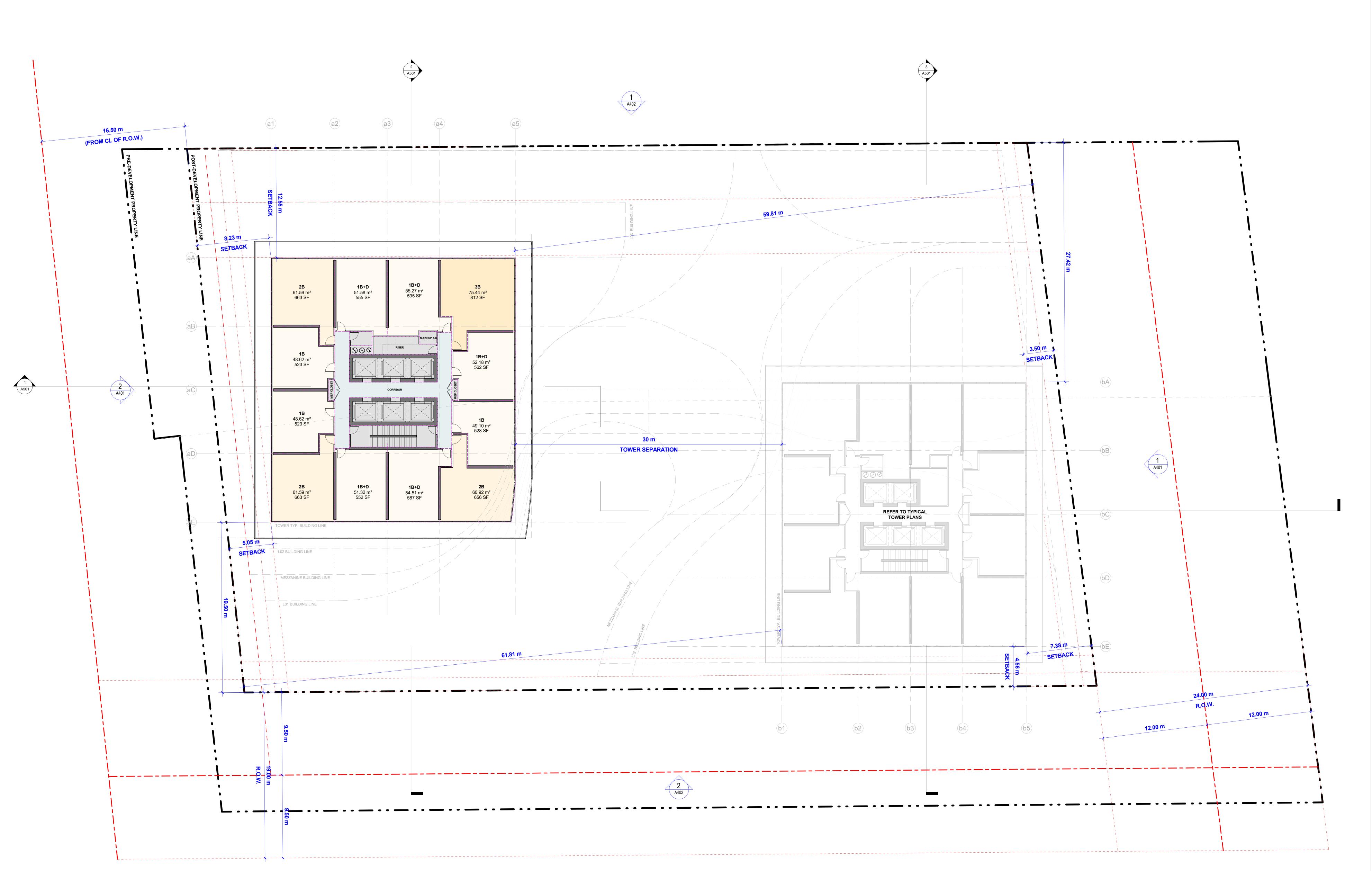
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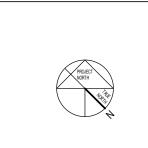
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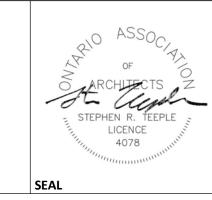
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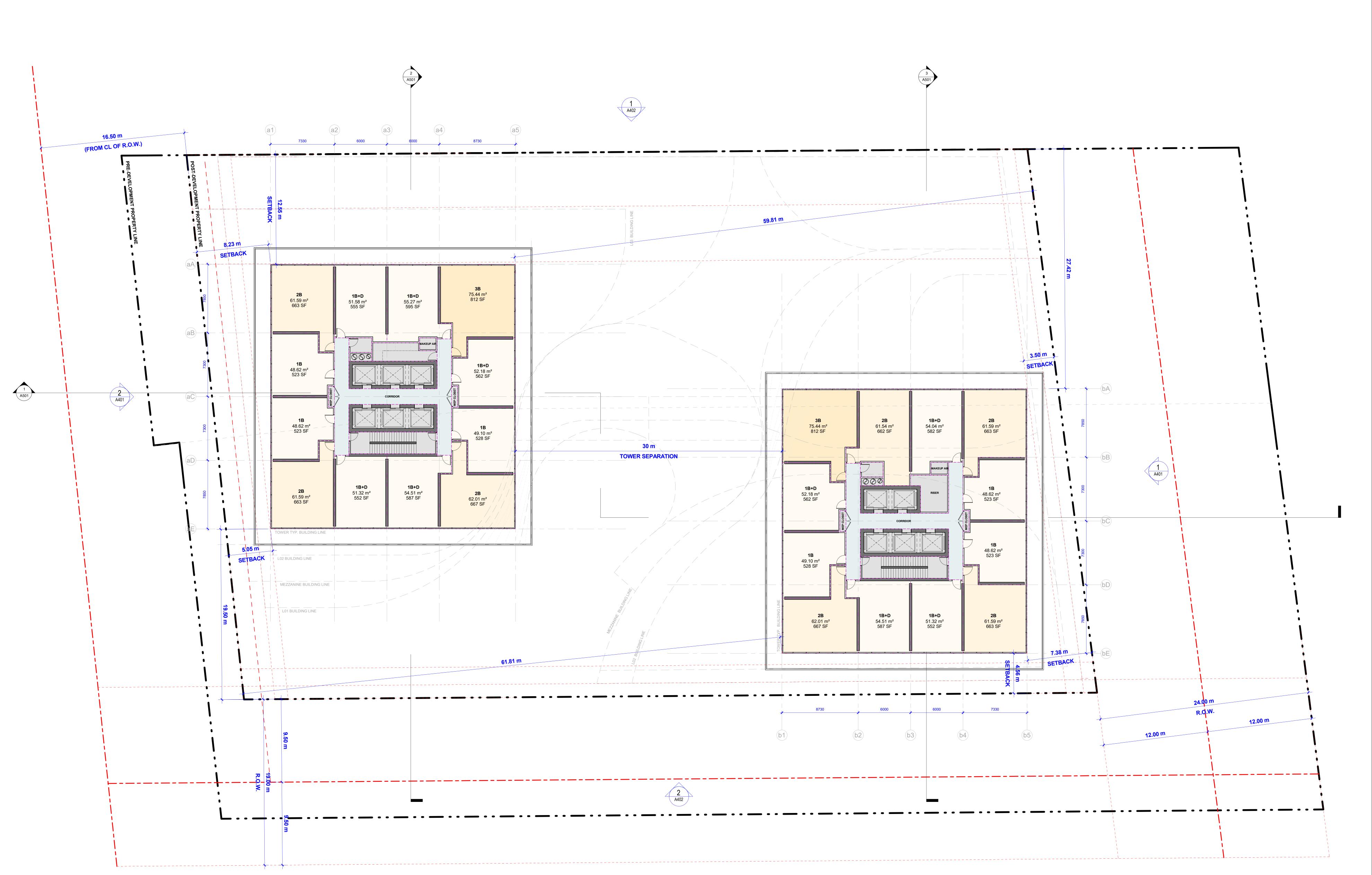
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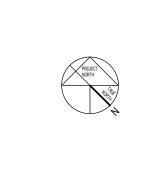
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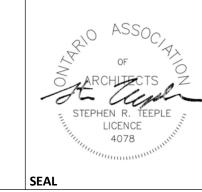
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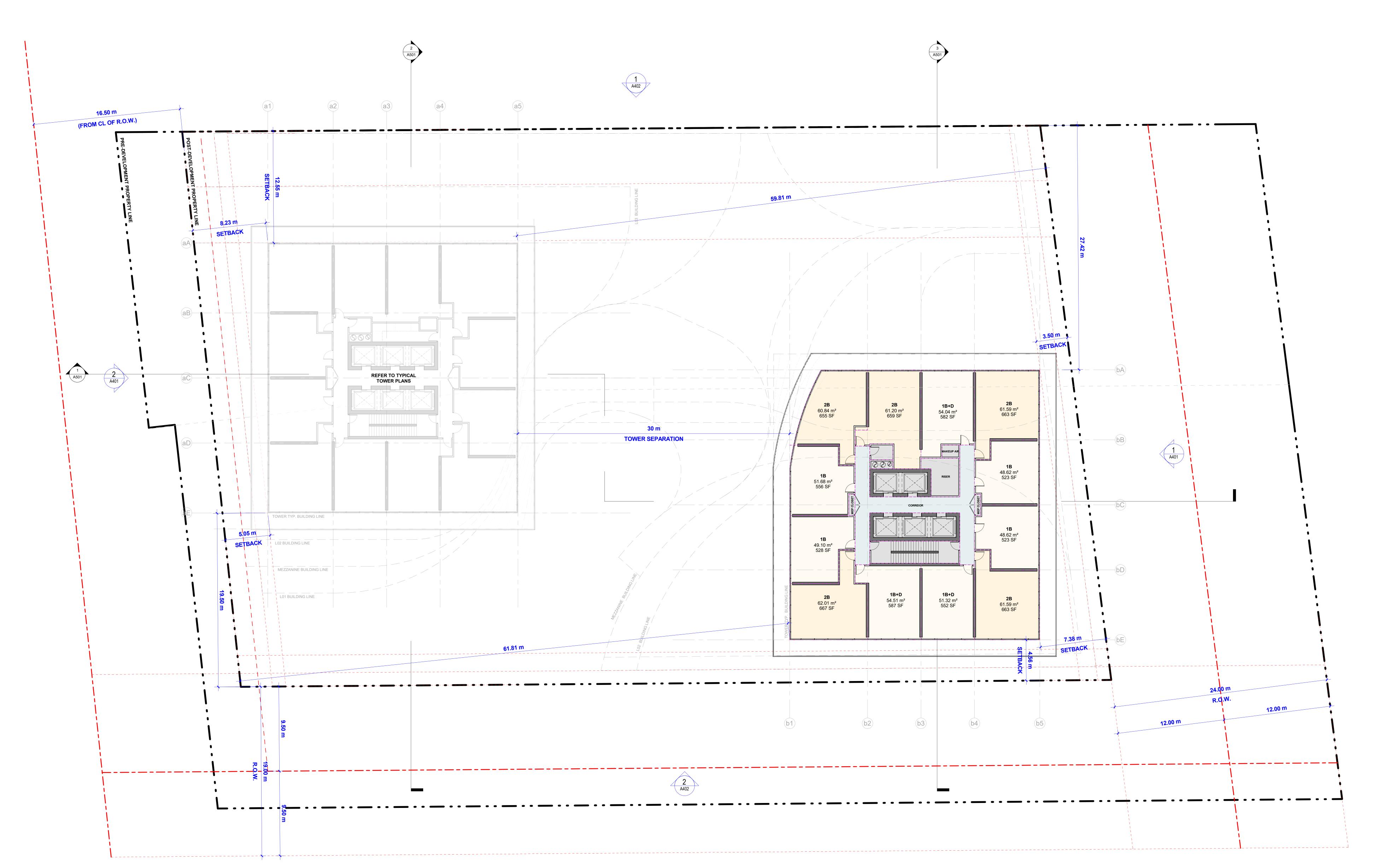
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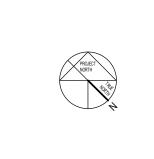
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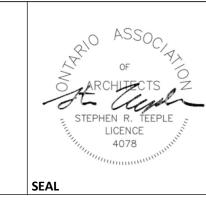
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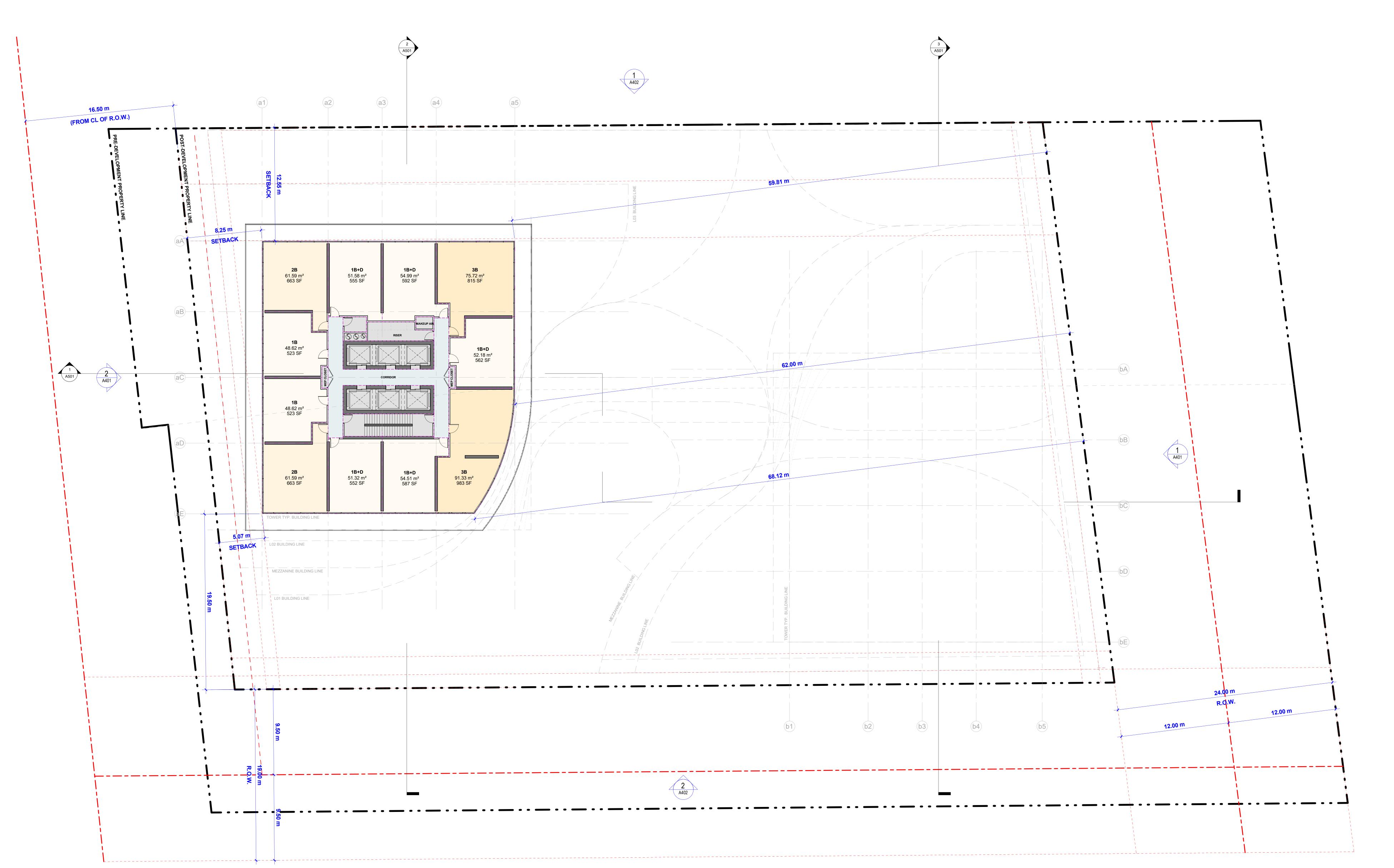
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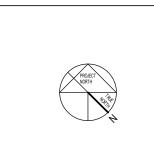
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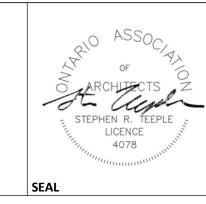
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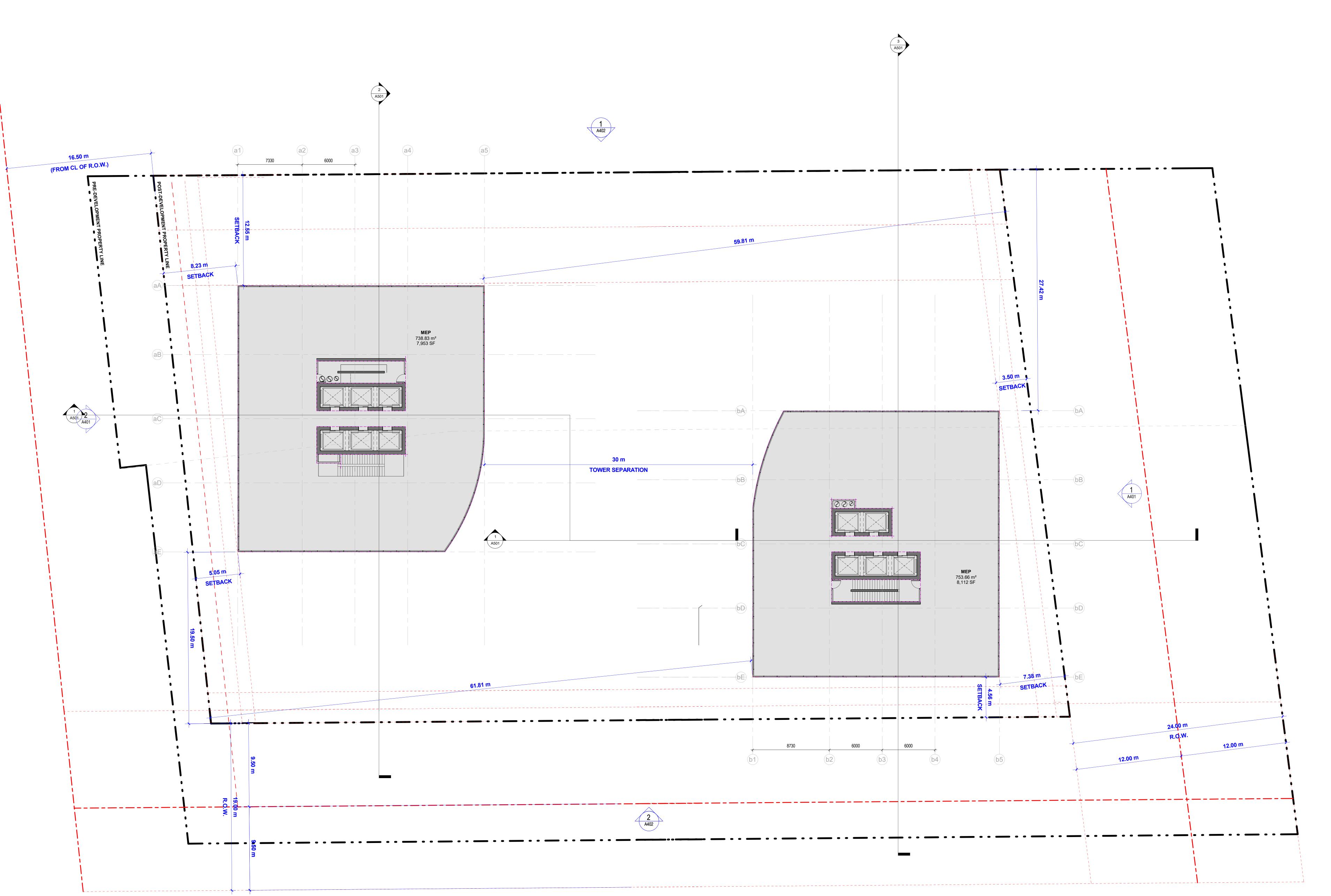
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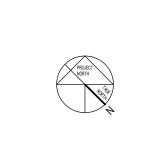
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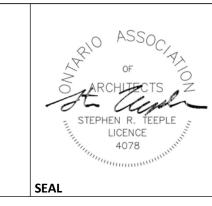
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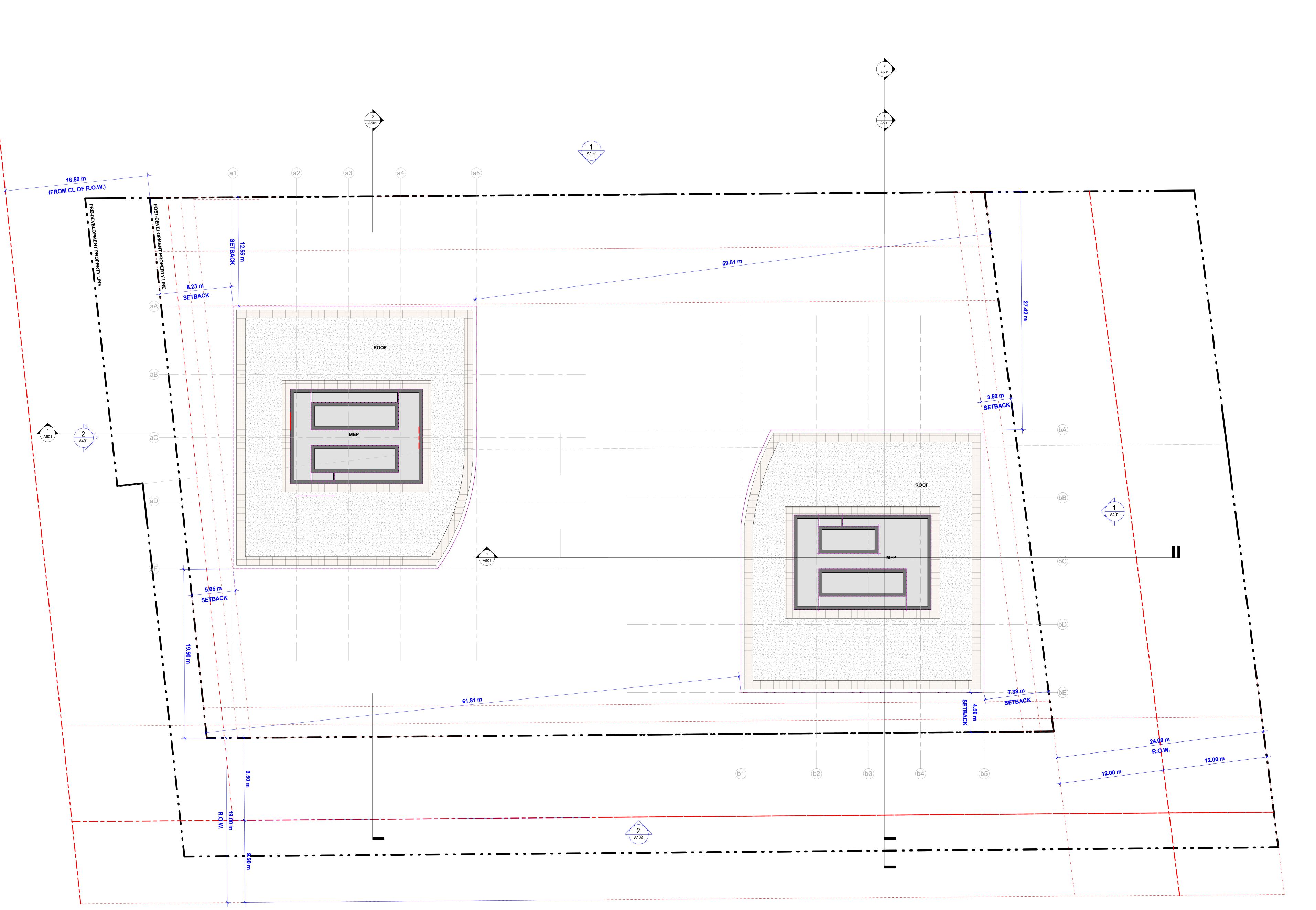
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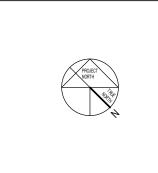
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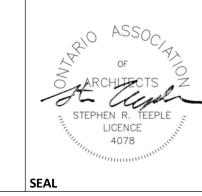
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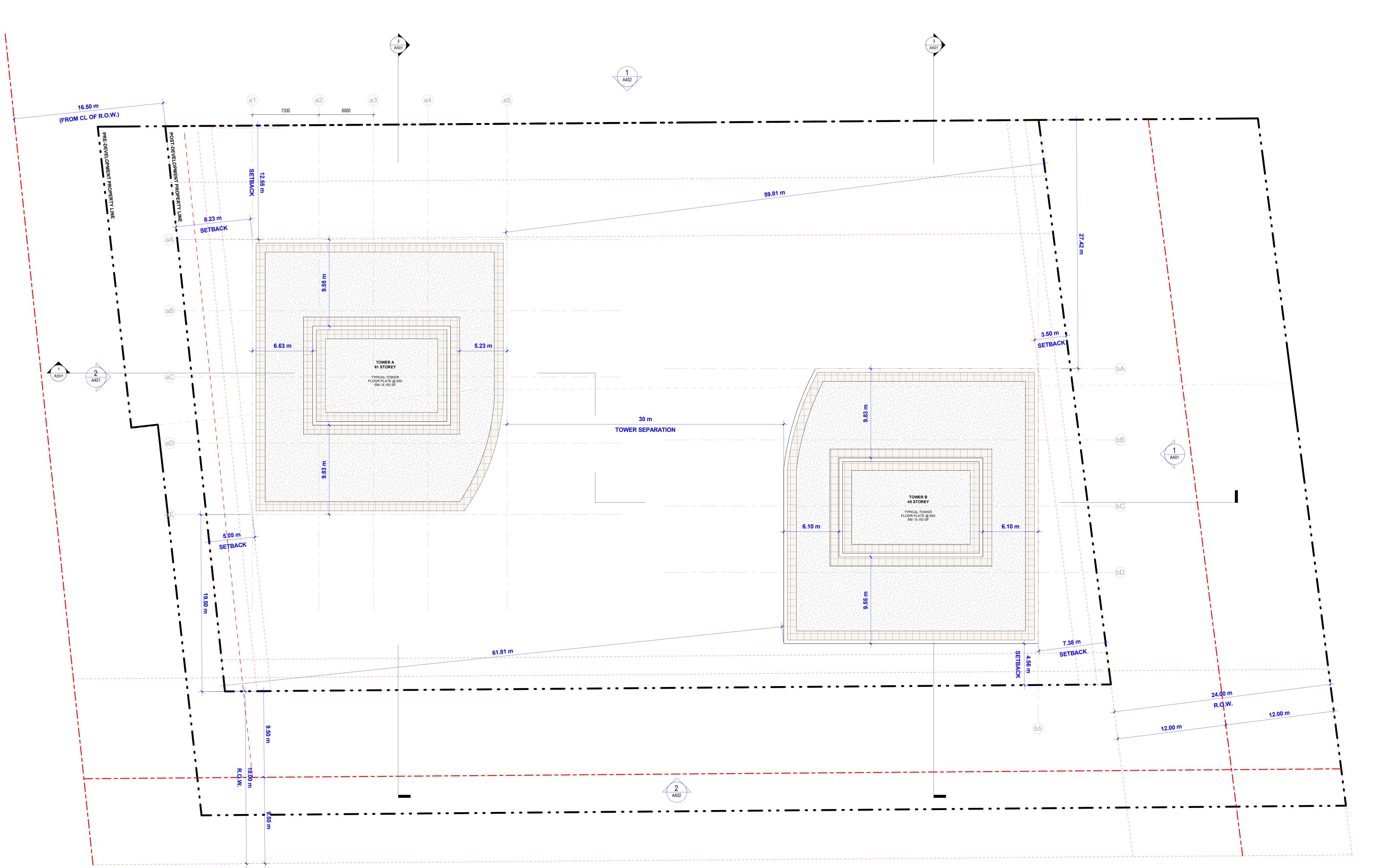
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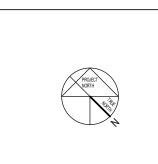
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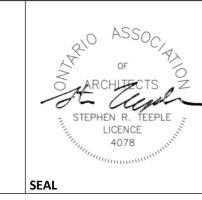
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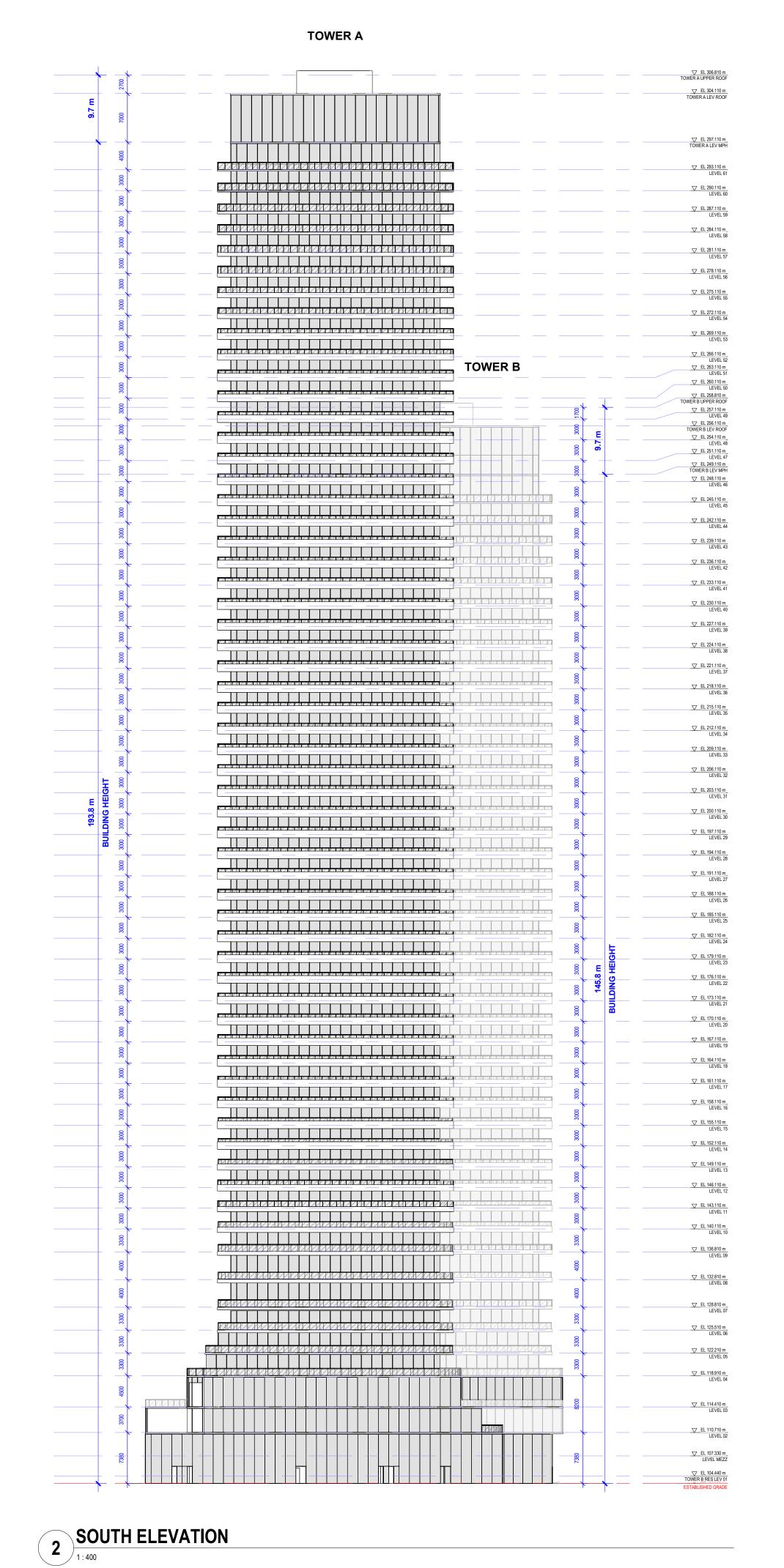
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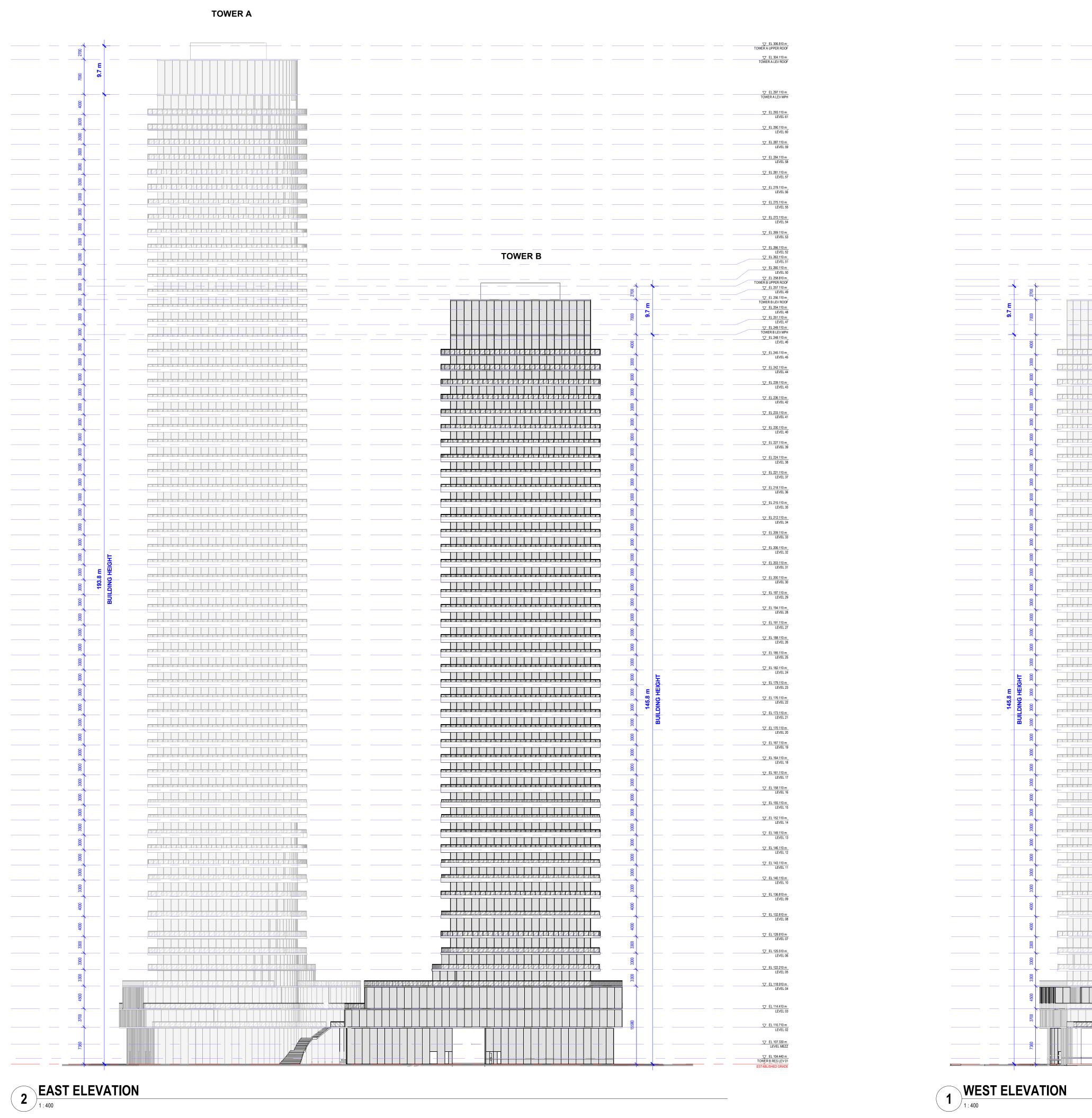
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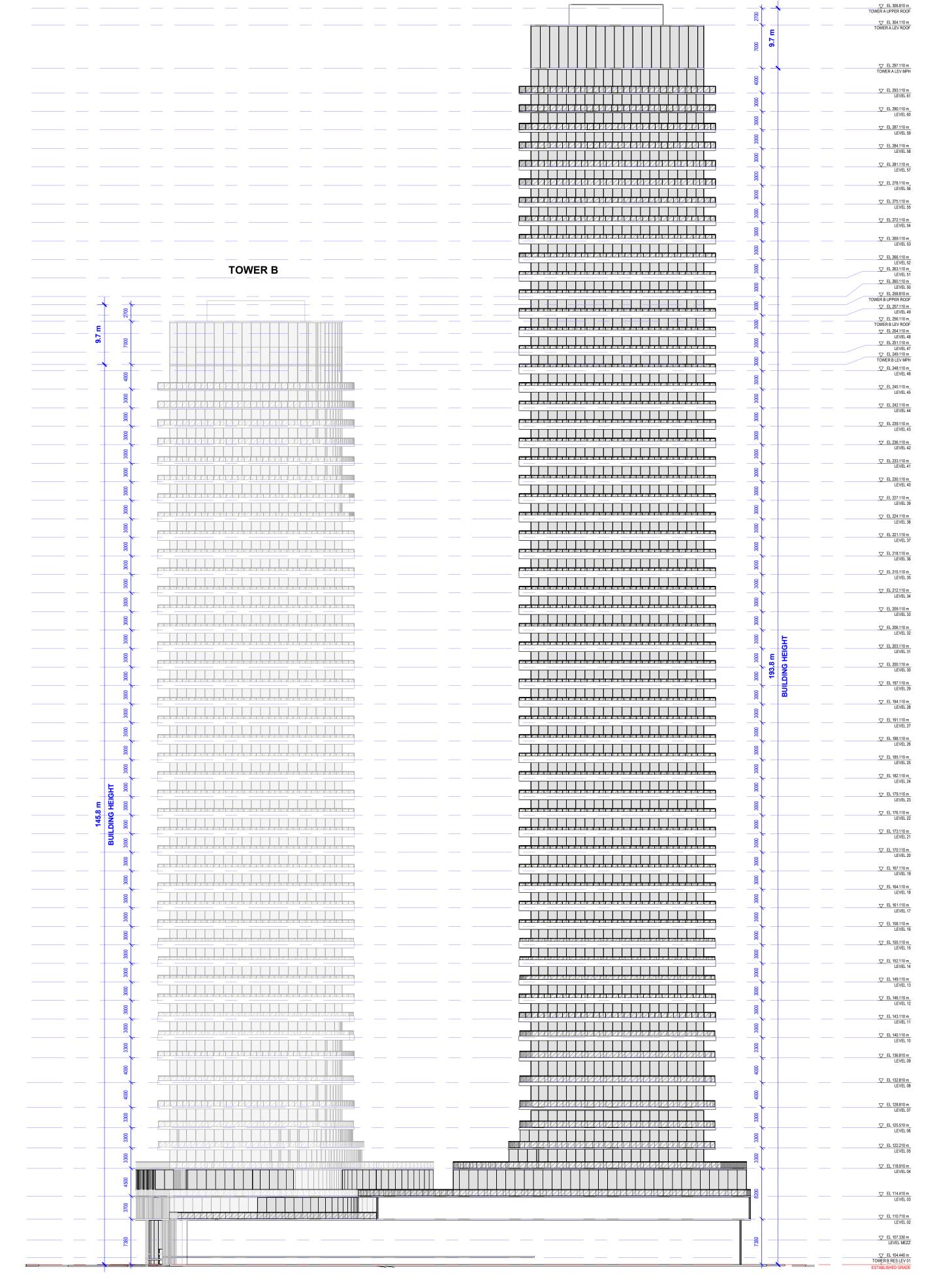
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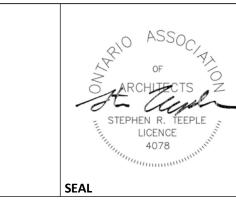
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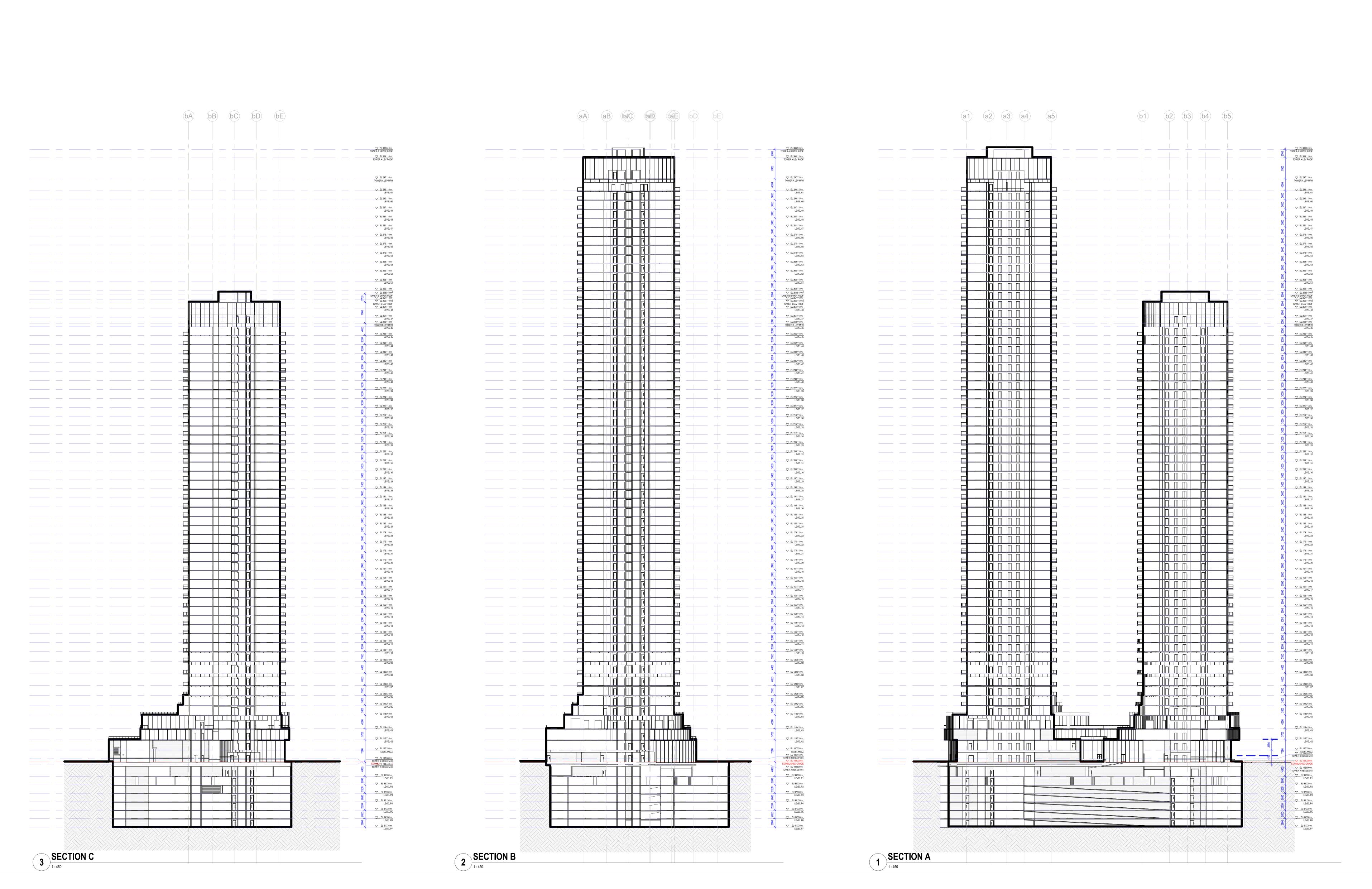
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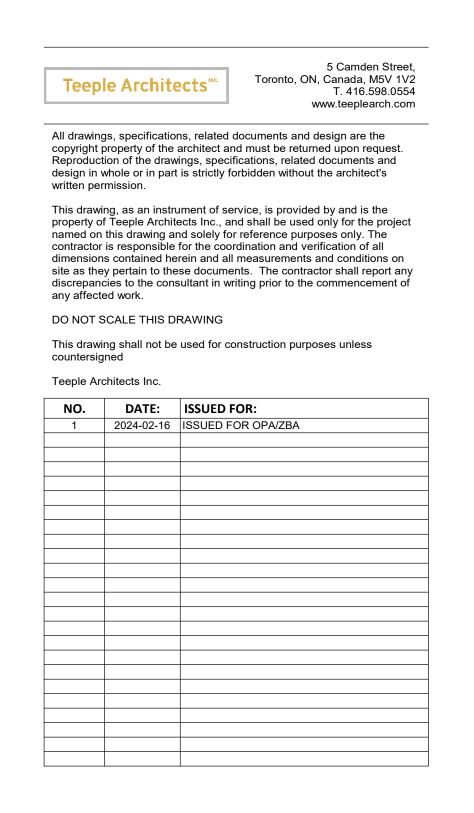
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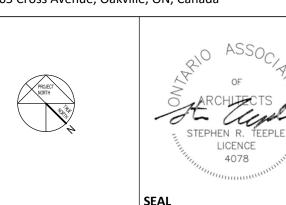
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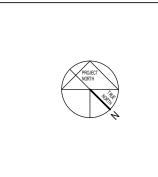
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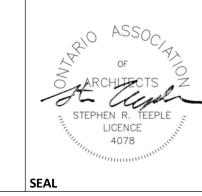
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Appendix C

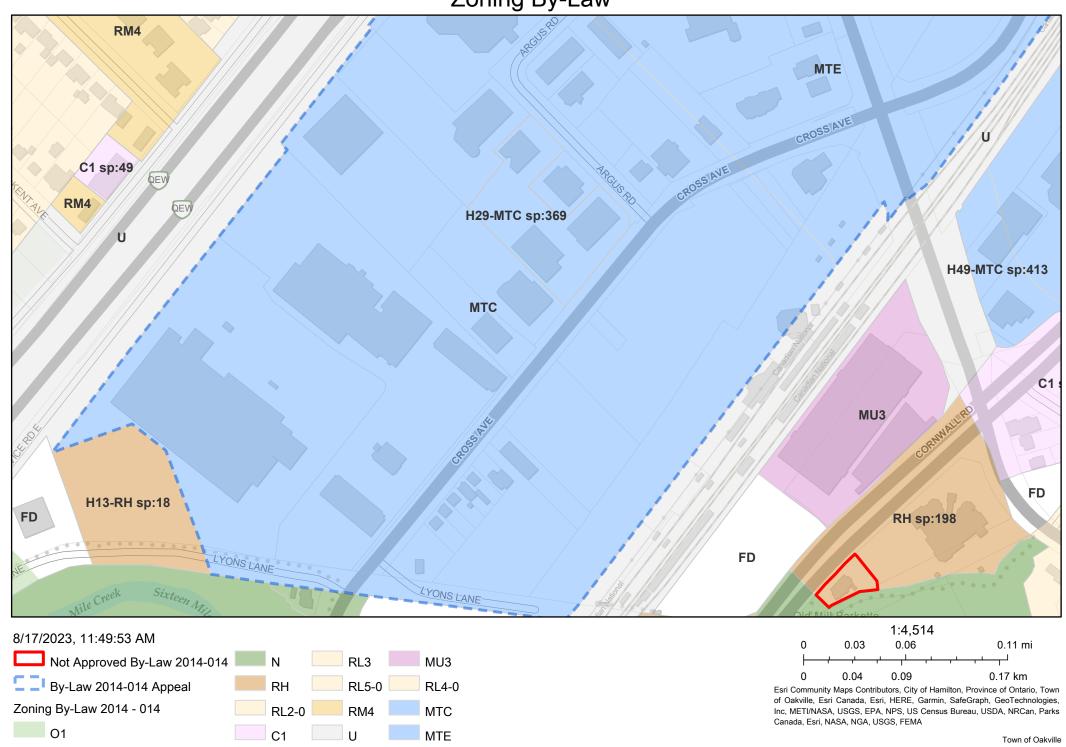
Zoning



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Zoning By-Law



Midtown Oakville Zones

7.1 List of Applicable Zones

Midtown Transitional Commercial MTC Midtown Transitional Employment MTE

7.2 Permitted Uses

Uses permitted in the Midtown Oakville Zones are denoted by the symbol "\sqrt'" in the column applicable to that *Zone* and corresponding with the row for a specific permitted use in Table 7.2, below.

Table 7.2: Permitted Uses in the Midtown Oakville Zones					
	MTC	MTE			
Legal <i>uses</i> of land, <i>buildings</i> , and <i>structures</i> existing on the <i>lot</i> as of the effective date of this By-la	✓	✓			
Retail Uses					
Outside display and sales area	✓	✓			
Retail propane and transfer facility	√ (1)(2)				
Retail store	✓	√ (3)			
Service Commercial Uses					
Adult entertainment establishment		✓			
Commercial school	✓				
Dry cleaning/laundry	✓				
Financial institution	✓	√ (3)			
Food production	✓	✓ (3)			
Pet care establishment	✓				
Place of entertainment	✓ (4)				
Restaurant	✓	✓ (3)			
Service commercial establishment	✓	✓ (3)			
Sports facility	✓	✓ (3)			
Veterinary clinic	✓				
Office Uses					
Business office	✓	✓			
Medical office		✓			
Community Uses					
Day care	✓	✓ (3)			
Emergency service facility	✓	✓			

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

OMB Appeals

Part 7 in its entirety

36 - General Electric Canada

Once Midtown Strategy projects are complete, staff anticipate an Official Plan Amendment will be required to update various schedules in the Livable Oakville Plan. Corresponding policy amendments may also be required to reflect changes recommended in the Parking Strategy and Mobility Hub Study work being undertaken in tandem with the Class Environmental Assessment.

In the interim, staff are recommending two transition zones - Midtown Transitional Commercial (MTC) and Midtown *Transitional Employment (MTE) – apply* that freeze building envelopes to those legally existing February 25, 2014. New buildings and structures would require a planning application, allowing Council to review a proposal and establish conformity with the Livable Oakville Plan (in particular, the acquisition of future roads required in Midtown Oakville). A limited range of additional uses are permitted that conform to the uses permitted in the Livable Oakville Plan to allow for the continued use of existing buildings should vacancies emerge.

Staff anticipate Midtown Strategy work to be complete later in 2015. Implementing zoning for Midtown Oakville would be introduced through a separate process, including a dedicated statutory public meeting for the Official Plan and Zoning By-law Amendments.

Midtown Oakville Zones

Table 7.2: Permitted Uses in the Midtown Oakville **Zones MTC** MTE Open Space Uses Conservation use Park, public Stormwater management facility **Employment Uses** ✓ Training facility Hospitality Uses Hotel Public hall **√**(1) Community Uses Art gallery Community centre Day care Emergency service facility Library School, private Community Uses Conservation use ✓ ✓ Park, public ✓ ✓ ✓ ✓ Stormwater management facility

Additional Regulations for Permitted Uses Table 7.2

- 1. Not permitted on a *lot* abutting a residential *zone*.
- 2. Only permitted for the sale of propane to the general public for automotive and recreational purposes.
- 3. Permitted only within the same *building* or part thereof *used* by any other *use* not subject to this footnote.
 - A maximum of 20% of the *net floor area* of the *building* shall be cumulatively occupied by all *uses* subject to this footnote.
- 4. Permitted only as an accessory use.

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Midtown Oakville Zones

7.3 Regulations

The regulations for the Midtown Oakville Zones are set out in Table 7.3,

Table 7.3: Regulations in the Midtown Oakville Zones							
	MTC	MTE					
Minimum lot frontage							
Minimum lot area							
Maximum lot coverage	Shall be as legally existing as of the effective date of this By-la .						
Minimum front yard							
Minimum flankage yard							
Minimum interior side yard							
Minimum rear yard							
Maximum height							

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Commercial Zones

9.1 List of Applicable Zones

Neighbourhood Commercial C1 Community Commercial C2 Core Commercial C3 Service Station C4 Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

Be sure to refer to all Parts of this Bylaw to ensure that you have reviewed all regulations that may apply to your lot. Contact staff in zoning section of the Building Services department to confirm the applicable zoning.

9.2 Permitted Uses (2016-023)

Uses permitted in the Commercial *Zones* are denoted by the symbol "✓" in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 9.2, below.

Table 9.2: Permitted Uses in the Commercial Zones (2017-025)						
	C1	C2	C3	C4		
Art gallery	✓	✓	√			
Business office	✓	✓	✓			
Commercial parking area						
Commercial school	✓	✓	✓			
Community centre	✓	✓	✓			
Conservation use	✓	✓	✓	✓		
Day care	√ (1)	✓	✓			
Drive-through facility	√ (1)	√ (1)	√ (1)	√ (1)(2)		
Dry cleaning depot (2016-023)	✓	✓	✓			
Dry cleaning/laundry establishment (2016-023)		✓	✓			
Emergency service facility	✓	✓	✓			
Emergency shelter (PL240317)	✓ (7)					
Financial institution	✓	✓	✓			
Food bank	✓	✓	✓			
Food production	✓	✓	✓			
Funeral home		✓				
Library	✓	✓	✓			
Medical office	✓	✓	✓			
Motor vehicle repair facility			✓ (6)			
Motor vehicle service station			✓	✓		
Motor vehicle washing facility			✓	✓ (5)		
Museum	✓	✓	✓			
Outside display and sales area	✓	✓	✓	✓		
Outside miniature golf		✓	✓			
Park, public	✓	✓ ✓	✓	✓		
Pet care establishment	✓	✓	✓			
Place of entertainment		✓	✓			
Place of worship	✓ (4)	√ (4)	✓ (4)			

Commercial Zones

Table 9.2: Permitted Uses in the Commercial Zones (2017-025)						
	C1	C2	C3	C4		
Rental establishment		✓	✓			
Restaurant	✓	✓	✓	✓ (5)		
Retail propane and transfer facility			✓ (3)	✓ (3)		
Retail store	✓	✓	✓	✓ (5)		
School, private (2016-023)	✓ (1)	✓	✓			
Service commercial establishment	✓	✓	✓			
Sports facility	✓	✓	✓			
Stormwater management facility	✓	✓	✓	✓		
Veterinary clinic	✓	✓	✓			

Additional Regulations for Permitted Uses Table 9.2

- 1. Permitted only on a *lot* abutting a major *arterial road*.
- 2. A maximum one *drive-through facility* shall be permitted on a *lot*.
- 3. Shall not be permitted on a *lot* abutting any Residential *Zone*.
- 4. The maximum *lot area* shall be 2.5 hectares. The maximum percentage of *net floor area* permitted to be occupied by a *place of worship* is 50% of the total *net floor area* on the *lot*.
- 5. Permitted only accessory to a motor vehicle service station.
- 6. Permitted only accessory to a retail store.
- 7. Prohibited on the *first storey* of a *building*. (PL140317)

9.3 Regulations

The regulations for *lots* in a Commercial Use *Zone* are set out in Table 9.3, below.

Table 9.3: Regulations in the Commercial Zones							
(2015-018)	C1	C2	C3	C4			
Minimum lot area	0.2 ha	2.0 ha	4.0 ha	n/a			
Minimum lot frontage	30.0 m	n/a	n/a	30.0 m			
Minimum lot depth	n/a	n/a	n/a	30.0 m			
Minimum front yard	0.0 m	3.0 m	3.0 m	3.0 m			
Maximum front yard	17.5 m	17.5 m (1)	17.5 m (1)	n/a			
Minimum flankage yard	0.0 m	3.0 m	3.0 m	3.0 m			
Maximum flankage yard	17.5 m	17.5 m (1)	17.5 m (1)	n/a			
Minimum interior side yard	0.0 m	0.0 m	0.0 m	3.0 m			

Residential Zones

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

6.1 List of Applicable Zones

Residential Low RL1, RL2, RL3, RL4, RL5, RL6

RL7, RL8, RL9, RL10, RL11

Residential Uptown Core RUC

Residential Medium RM1, RM2, RM3, RM4

Residential High RF

6.2 Permitted Uses

Uses permitted in the Residential *Zones* are denoted by the symbol " \checkmark " in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Tables 6.2.1 and 6.2.2, below.

Table 6.2.1: Permitted Uses in the Residential Low Zones and the Residential Uptown Core Zone (2017-025)						
		RL1, RL2, RL3, RL4, RL5, RL6	RL7, RL8, RL9	RL10	RL11	RUC
Accessory dwelling unit (2023-024)		✓	✓	√	✓	✓
Bed and breakfast establishment	(1)	✓	✓	✓	✓	✓
Conservation use		✓	✓	✓	✓	✓
Day care	(1)	✓	✓	✓	✓	✓
Detached dwelling		✓	✓	✓		✓
Duplex dwelling				✓		
Emergency service facility		✓	✓	✓	✓	✓
Emergency shelter						
Home occupation		✓	✓	✓	✓	✓
Linked dwelling					✓	
Lodging house	(1)(2)	✓			✓	✓
Park, public		✓	✓	✓	✓	✓
Place of worship						
Private home day care	(1)	✓	✓	✓	✓	✓
Private school						
Semi-detached dwelling			✓			✓
Short-term accommodation (2023-024)	(1)	✓	✓	√	✓	√
Stormwater management facility		✓	✓	✓	✓	✓
Townhouse dwelling						✓

Additional Regulations for Permitted Uses Table 6.2.1

- 1. A maximum of one of the *uses* subject to this footnote shall be permitted on a *lot*. (2023-024)
- 2. The maximum number of *lodging units* shall be 3.
- 3. Permitted only on a *corner lot*.

Residential Zones

Table 6.2.2: Permitted Uses in the Residential Medium and Residential High Zones (2017-025)						
	R	M1	RM2	RM3	RM4	RH
Accessory Dwelling Unit (2023-024)		✓				
Apartment dwelling					✓	✓
Back-to-back townhouse dwelling			✓			
Conservation use		✓	✓	✓	✓	✓
Day care (1)	✓	✓	✓	✓	✓
Emergency service facility		✓	✓	✓	✓	✓
Home occupation		✓	✓	✓	✓	✓
Long term care facility				✓	✓	✓
Park, public		✓	✓	✓	✓	✓
Private home daycare (1)	✓	✓	✓	✓	✓
Retail store, accessory						✓
Retirement home				✓	✓	✓
Short-term accommodation (1)	✓	✓	✓	✓	✓
Stacked townhouse dwelling				✓		
Stormwater management facility		✓	✓	✓	✓	✓
Townhouse dwelling		✓				

Additional Regulations for Permitted Uses Table 6.2.2

1. A maximum of one of the *accessory uses* subject to this footnote shall be permitted in a *dwelling* or an *accessory dwelling unit* associated with the main *dwelling*. (2023-024)

Mixed Use Zones

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

8.1 List of Applicable Zones

Central Business District CBD
Main Street 1 MU1
Main Street 2 MU2
Urban Centre MU3
Urban Core MU4

8.2 Permitted Uses

Uses permitted in the Mixed Use *Zones* are denoted by the symbol "✓" in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 8.2, below.

Table 8.2: Permitted Uses	mi tile iv					
		CBD	MU1	MU2	MU3	MU4
Accessory dwelling unit (2023-024)		✓	✓	✓		
Apartment dwelling		√ (1)	✓ (3)	√ (3)	✓ (3)	√ (3)
Art gallery	(7)	✓	✓	✓	✓	✓
Bed and breakfast establishment	(5)	✓				
Business office	(6)(7)	✓	✓	✓	✓	✓
Commercial parking area		✓	✓	✓	✓	✓
Commercial school	(7)	✓	✓	✓	✓	✓
Community centre		✓	✓	✓	✓	✓
Conservation use		✓	✓	✓	✓	✓
Day care		√ (5)	✓	✓	✓	✓
Detached dwelling	(2)	✓	✓	✓		
Dormitory	(4)	✓	✓	✓	✓	✓
Dry cleaning depot (PL140317)	(7)	✓	✓	✓	✓	✓
Dry cleaning/laundry establishment (PL140317)	(7)	✓	✓	✓	✓	✓
Emergency service facility		✓	✓	✓	✓	✓
Emergency shelter (PL140317)		✓ (8)	✓ (8)	✓ (8)	✓ (8)	✓ (8)
Financial institution	(7)	✓	✓	✓	✓	✓
Food bank	(7)	✓	✓	✓	✓	✓
Food production	(7)	✓	✓	✓	✓	✓
Funeral home		✓				
Home Occupation	(5)	✓	✓	✓	✓	✓
Hotel	(7)	✓			✓	✓
Library		✓	✓	✓	✓	✓
Live-work dwelling (2017-025)	(2)	✓	✓	✓		
Long term care facility		√ (1)	✓ (3)	✓ (3)	✓ (3)	✓ (3)
Medical office	(6)(7)	✓	✓	✓	✓	✓
Motor vehicle rental facility					✓	✓

Mixed Use Zones

Table 8.2: Permitted Uses in	n the N	lixed Use	Zones (2	017-025)		
		CBD	MU1	MU2	MU3	MU4
Museum		✓	✓	✓	✓	✓
Outside display and sales area	(7)	✓	✓	✓	✓	✓
Park, public		✓	✓	✓	✓	✓
Pet care establishment	(7)	✓	✓	✓	✓	✓
Place of entertainment	(7)	✓	✓	✓	✓	✓
Place of worship		✓	✓	✓	✓	✓
Post-secondary school		✓	✓	✓	✓	✓
Private home day care	(5)	✓	✓	✓	✓	✓
Public hall	(7)	✓			✓	✓
Rental establishment	(7)	✓	✓	✓	✓	✓
Restaurant	(7)	✓	✓	✓	✓	✓
Retail store	(7)	✓	✓	✓	✓	✓
Retirement home		√ (1)	✓ (3)	✓ (3)	✓ (3)	✓ (3)
School, private		✓	✓	✓	✓	✓
School, public		✓	✓	✓	✓	✓
Semi-detached dwelling	(2)	✓	✓	✓		
Service commercial establishment	(7)	✓	✓	✓	✓	✓
Short-term accommodation (2023-024)	(5)	✓	✓	✓	✓	✓
Sports facility	(7)	✓	✓	✓	✓	✓
Stormwater management facility		✓	✓	✓	✓	✓
Taxi dispatch	(7)	✓	✓	✓	✓	✓
Townhouse dwelling	(2)	✓	✓	✓		
Veterinary clinic	(7)	✓	✓	✓	✓	✓

Additional Regulations for Permitted Uses Table 8.2

1.

- a) Stand-alone residential *buildings* are not permitted on *lots* having a *front lot line* or *flankage lot line* abutting Lakeshore Road. (2021-068)
- b) Residential *dwelling units* located on the *first storey* shall have the *main front entrance* oriented towards a *public road.* (2021-068)
- 2. Permitted only where the use legally existed on the lot on the effective date of this By-law.

3.

- a) Prohibited in the first 9.0 metres of depth of the *building*, measured in from the *main wall* oriented toward the *front lot line*, on the *first storey*. (2021-068)
- b) Notwithstanding this, an *ancillary residential use* on the *first storey* is permitted to occupy a maximum of 15% of the length of the *main wall* oriented toward a *front lot line*. (2021-068)
- 4. Only permitted *accessory* to and on the same *lot* as a post-secondary school or private school.

Open Space Zones

12.1 List of Applicable Zones

Park O1
Private Open Space O2
Cemetery CEM

12.2 Permitted Uses

Uses permitted in the Open Space *Zones* are denoted by the symbol "✓" in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 12.2, below.

Portions of this by-law not yet in effect are covered with a blue tone. This version consolidates all amendments and orders of the OMB up to the consolidation date shown below. Contact the Building Services or Planning Services departments for more information.

Be sure to refer to all Parts of this Bylaw to ensure that you have reviewed all regulations that may apply to your lot. Contact staff in zoning section of the Building Services department to confirm the applicable zoning.

Table 12.2: Permitted Uses in the Open Space Zones					
	01	O2	CEM		
Business office		✓ (1)			
Cemetery			✓		
Commercial school		√ (1)			
Community centre	✓	✓			
Conservation use	✓	✓	✓		
Emergency service facility	✓	✓			
Golf course		✓			
Library		✓ (1)			
Marina	✓				
Museum		✓ (1)			
Outside miniature golf course		✓			
Park, private		✓			
Park, public	✓	✓			
Public hall		✓ (1)			
Restaurant		✓ (1)			
Retail store		✓ (1)			
Stormwater management facility	✓	✓	✓		
Service commercial establishment		✓ (1)			
Sports facility		✓			

Additional Regulations for Permitted Uses Table 12.2

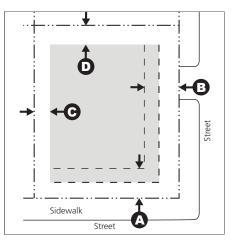
1. Permitted only *accessory* to another permitted *use*.

Open Space Zones

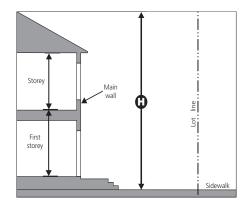
12.3 Regulations

The regulations for *lots* in an Open Space *Zone* are set out in Table 12.3, below.

Table 12.3: Regulations in the Open Space Zones							
	01	O2	CEM				
Minimum lot area	n/a	n/a	n/a				
Minimum lot frontage	n/a	n/a	n/a				
Minimum front yard (2015-018)	0.0 m	12.0 m	5.0 m				
Minimum flankage yard (2015-018)	0.0 m	12.0 m	5.0 m				
Minimum interior side yard (2015-018)	4.5 m	12.0 m	5.0 m				
Minimum rear yard (2015-018)	4.5 m	12.0 m	7.5 m				
Maximum height	14.0 m	14.0 m	14.0 m				
Maximum lot coverage	25%	25%	30%				



The black circles are letters corresponding to the applicable yard in the regulations table. The shaded area represents the potential building envelope remaining once minimum yards are removed.



Height is measured to the tallest point of the building.

Other Zones

14.1 List of Applicable Zones

Utility U
Future Development (2023-024) FD
Stormwater Management Facility SMF

14.2 Permitted Uses

Uses permitted in the Other *Zones* are denoted by the symbol "\sqrt{"}" in the column applicable to that *Zone* and corresponding with the row for a specific permitted *use* in Table 14.2, below.

Table 14.2: Permitted Uses in the Other Zones						
	U	FD	SMF			
Conservation use	✓	✓	✓			
Emergency service facility		✓				
Legal <i>uses</i> of land existing on the <i>lot</i> as of the effective date of this By-la		√ (1)				
Major transit station (2017-025)	√ (2)					
Park, private			✓			
Park, public		✓	✓			
Stormwater management facility	✓	✓	✓			

Additional Regulations for Permitted Uses Table 14.2

- 1
- a) Only *buildings* and *structures* legally existing on the effective date of this By-law and one *accessory building* or *structure* constructed after the effective date of this By-law are permitted
- b) If the use is a *dwelling*, the *uses* listed under *accessory* residential *uses* in Table 6.2.1 of this By-law are additionally permitted, subject to the additional regulations of that Table, and Section 6.5 of this By-law shall apply to permit *accessory buildings* and *structures*.
- 2. a) Only permitted within and adjacent to a *railway corridor* at locations designated by an operator of a passenger rail service.
 - b) Accessory uses to a major transit station
 - i) shall be limited to restaurants, retail stores, dry cleaning/ laundry and service commercial establishments;
 - ii) may be stand-alone or within shared *premises*;
 - shall have a maximum total *net floor area* of 500.0 square metres; and,
 - iv) shall be exempt from the parking and *yard* regulations of this By-law (2017-025)

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Be sure to refer to all Parts of this Bylaw to ensure that you have reviewed all regulations that may apply to your lot. Contact staff in the zoning section of the Building Services department to confirm the applicable zoning.

The Utility (U) Zone applies to most significant infrastructure facilities in Oakville. Infrastructure is permitted broadly across Oakville in Section 4.10 of this By-law and not in the Permitted Use Tables.

Other Zones

14.3 Regulations

The regulations for the Other *Zones* are set out in Table 14.3, below.

Table 14.3: Regulations	in the Othe	r Zones (2023-	-024)
	U	FD	SMF
Minimum lot area	n/a	n/a	n/a
Minimum lot frontage	n/a	n/a	n/a
Minimum front yard	7.5 m	9.0 m	n/a
Minimum flankage yard	6.0 m	2.4 m	n/a
Minimum interior side yard	6.0 m	2.4 m	n/a
Minimum rear yard	7.5 m	7.5 m	n/a
Maximum height	n/a	10.0 m	n/a
Maximum lot coverage	n/a	(1)	n/a

Additional Regulations for Zone Regulations Table 14.3

1.

- a) The maximum *lot coverage* and *floor area* shall be the *lot coverage* and *floor area* that legally existed on the effective date of this By law, and may be increased by a maximum of 10% at the location of the *building* only.
- b) For *accessory buildings* or *structures*, the regulations of Section 6.5 shall apply.

Appendix D

Warning Clauses and BPN56

Cross Realty LP



Warning Clauses

All warning clauses should be included in agreements that are registered on title for all Offers of Purchase and Sale, lease/rental agreements, and condominium declarations.

Type B: "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 and rail 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."

Type D: "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."

CN Warning Clause: "Canadian National Railway Company and its assigns or successors in interest has or have a rights-of-way within 1000 metres from the land the subject hereof. There may be alterations to or expansions of the railway facilities on such rights-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 will not be responsible for any complaints or claims arising from use of such facilities and/or operations on, over or under the aforesaid rights-of-way."

Metrolinx: "Metrolinx and its assigns and 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 Metrolinx or any railway entering into an agreement with Metrolinx to use the right-of-way or their assigns or successors as aforesaid may expand their 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). Metrolinx will not be responsible for any complaints or claims arising from use of such facilities and/or operations on, over or under the aforesaid right-of-way.

					Fre	Sound Le	evels Indoor	Ren	quired	Exposed	Exm	nosed			açade and f	Closin	as % Glaz	ing as % Ve	eneer as %	6 of	Height o	Ho	orizontal	Incident Sound	Source Inpu		Assumed	1		nt 1 - Veneer	% Total					Component % To		1	
ocation	Source			Façade L (dBA)	Cor		Requiremer (dBA)		duction F	açade Heigh (m)	. (m)	Room Depth (m)	Floor Area (m^2)	(m^2	of Façai			Floor Area (%)	a Room Absorp	ion Receptor (m)	Distanc	(m)	Angle (deg)	Angle Correction	Source Spectrum		Building Compone		Room Correction	Transmitted Energy (%)	Energy Correction	Building Component	Spectrum Correction	Room Correctio	n Ener (%			uired Glazing (STC)
		tive Daytime	Living/Dining Living/Dining Living/Dining	71 62 65		3 3	45 40 40	1 2	29 25 28	3.00 3.00 3.00	6	.00	3.00 3.00 3.00	18.00 18.00 18.00	18.00 18.00 18.00	70	% % %	70% 70% 70%	30% 30% 30%	Intermedia Intermedia Intermedia	e 189.2 e 189.2 e 189.2		230 250 250	39.44 37.12 37.12	1 1	F B	45 45 45	D D	7 10 2	-4 -4 -4	5% 5% 5%	42 39 47	C C	6	-1 -1 -1	959 959 959	6 0 6 0	34 32 30	Living / Dining
	Roadw	vay Night-time	E Living/Dining E Living/Dining	65 58		3	45 40	2	23 21	3.00	6		3.00 3.00	18.00 18.00	18.00	70	%	70% 70%	30% 30%	Intermedia Intermedia	e 189.2 e 189.2		230 250	39.44 37.12	1	D F	45 45	D D	7 10	-4 -4	5% 5%	42 39	C C	4	-1 -1	959 959	6 O	37 28 28	Areas
BA NE	Whee	el Night-time	E Living/Dining Sleeping Quarters	60		3	40 45	2	23	3.00	6	.00	3.00	18.00	9.00	70	%	70%	30%	Intermedia	e 189.2		250 230	37.12 39.44	1	В	45 45	D	2	-4	5%	47	С	1	-1	959	6 0	25	<u>37</u>
	Locomot	tive Daytime	Sleeping Quarters Sleeping Quarters	62		3	40 40	2	25 28	3.00	3	.00	3.00 3.00	9.00 9.00	9.00	50	%	50%	50%				250 250 250	37.12 37.12	1	F B	45 45		10	-2 -2 -2	5% 5%	37 45	C C	6	-2 -2 -2	959 959	6 0	30	Sleeping Ouarters
			Sleeping Quarters Sleeping Quarters			3	40 35	2	28	3.00			3.00		9.00	50		50%	50% 50%		e 189.2 e 189.2		230 250	39.44 37.12	1	D F	45 45	D D	7 10	-2 -2	5% 5%	40 37	C C	4	-2 -2	959		35 31 31	Quarters
	Whee	el Night-time	Sleeping Quarters	60		3	35	- 2	28	3.00		.00	3.00	9.00	9.00			50%	50%	Intermedia	e 189.2		250	37.12	1	В	45	D	2	-2	5%	45	С	1	-2	959		28 35	- 55
	Locomot	tive Daytime al Daytime	Living/Dining Living/Dining Living/Dining	67 64 67		3	45 40 40	3	27 30	3.00 3.00 3.00	6	.00	3.00 3.00 3.00	18.00 18.00 18.00	18.00 18.00 18.00	70		70% 70%	30% 30% 30%	Intermedia Intermedia Intermedia	e 189.2 e 189.2 e 189.2		250 250 250	39.44 37.12 37.12	1	F B	45 45	D D	10	-4 -4	5% 5%	42 39 47	C C	6	-i -1	959 959 959		30 34 32	Living / Dining
	Locomot	tive Night-time	E Living/Dining Living/Dining	60		3	45 40	- 2	18 23	3.00 3.00	6	.00	3.00 3.00 3.00	18.00 18.00	18.00 18.00	70	%	70% 70%	30% 30%	Intermedia Intermedia	e 189.2 e 189.2		230 250	39.44 37.12	1	D F	45 45	D D	7 10	-4 -4	5% 5% 5%	42 39 47	C C	4	-1 -1	959 959	6 0	23 30	
BA SE	Roadw	ai Night-time	E Living/Dining Sleeping Quarters			3	40		26	3.00		.00	3.00	18.00 9.00	9.00		%	70%	30%	Intermedia	e 189.2 e 189.2		250 230	37.12 39.44	1	D	45 45	D	7	-4	5%	47	C	4	-1	959	6 0	28 32 28	<u>37</u>
	Locomot	tive Daytime	Sleeping Quarters Sleeping Quarters	64		3	40 40	3	27 30	3.00 3.00		.00	3.00 3.00	9.00 9.00	9.00 9.00			50% 50%	50% 50%	Intermedia Intermedia			250 250	37.12 37.12	1	F B	45 45	D D	10	-2 -2	5% 5%	37 45	C	6 1	-2 -2	959 959	6 0 6 0	32	Sleeping Quarters
	Locomot	tive Night-time	Sleeping Quarters Sleeping Quarters	60		3	40 35	2	23 28	3.00	3	.00	3.00 3.00	9.00 9.00	9.00	50	%	50% 50%	50%	Intermedia Intermedia	e 189.2		230 250	39.44 37.12	1	D F	45 45		7 10	-2 -2	5% 5%	40 37	C C	4	-2 -2	959 959	6 0	26 33	Quarters
	Roadw		Sleeping Quarters Living/Dining	63 72		3	35 45	3	30	3.00	6	.00	3.00		9.00	70	%	70%	30%	Intermedia	e 189.2 e 189.2		250	37.12	1	D D	45	D	7	-2	5%	45	C	4	-2 -1	959	6 0	35	36
	Locomot	tive Daytime Daytime	Living/Dining Living/Dining Living/Dining	60		3	40 40	2	23 26	3.00 3.00		.00	3.00 3.00	18.00 18.00	18.00 18.00	70		70% 70%	30% 30%	Intermedia Intermedia	e 189.2 e 189.2		250 250	37.12 37.12	1	F B	45 45	D D	10	-4 -4	5% 5%	39 47	C	6	-1 -1	959 959	6 0 6 0	30 28	
	Roadw	vay Night-time	E Living/Dining E Living/Dining	66 56		3	45 40	2	24 19	3.00	6	.00	3.00 3.00	18.00 18.00	18.00 18.00	70 70	%	70% 70%	30% 30%	Intermedia Intermedia	e 189.2 e 189.2		230 250	39.44 37.12	1	D F	45 45		7 10	-4 -4	5% 5%	42 39	C C	4	-1 -1	959 959	6 0	36 29 26	Areas
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	Locomot	tive Daytime	Sleeping Quarters Sleeping Quarters	60		3	40 40	2	23 26	3.00 3.00	3	.00	3.00 3.00	9.00 9.00	9.00 9.00	50	%	50% 50%	50% 50%	Intermedia Intermedia	e 189.2		250 250	37.12 37.12	1	F B	45 45	D D	10	-2 -2	5% 5%	37 45	C C	6 1	-2 -2	959 959	6 0	28 26 35	
	Locomot	tive Night-time	Sleeping Quarters Sleeping Quarters	66 56		3	40 35	2	29 24	3.00	3	.00	3.00 3.00	9.00 9.00	9.00	50 50	%	50% 50%	50% 50%	Intermedia Intermedia	e 189.2 e 189.2		230 250	39.44 37.12	1	D F	45 45	D D	7 10	-2 -2	5% 5%	40 37	C C	4	-2 -2	959 959		32 29	
			E Sleeping Quarters Living/Dining Living/Dining			3	35 45	2	32	3.00		.00	3.00	9.00	9.00			70%	50% 30%	Intermedia			250	37.12 39.44	1	D D	45 45	D	7	-2	5%	45	C	4	-2 -1	959		27 35 37	35
	Whee	el Daytime	Living/Dining	59		3	40 40	2	19	3.00		.00	3.00 3.00	18.00 18.00	18.00	70 70	%	70% 70%	30% 30%	Intermedia Intermedia	e 189.2 e 189.2		250 250	37.12 37.12	1	F B	45 45	D D	10	-4 -4	5% 5%	39 47	C	6 1	-1 -1	959 959	6 O	20	Living / Dining
	Roadw	vay Night-time tive Night-time	Living/Dining Living/Dining Living/Dining	68 52 54		3	45 40 40	1	26 15	3.00	6	.00	3.00 3.00 3.00		18.00	70 70 70	%		30% 30% 30%	Intermedia Intermedia			230 250 250	39.44 37.12	1	D F	45 45 45	D D	7 10	-4 -4	5% 5%	42 39 47	C C	4	-1 -1	959 959	6 0	31 22	Areas
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	Locomot	tive Daytime Daytime	Sleeping Quarters Sleeping Quarters	56 59		3	40 40	1 2	19	3.00	3	.00	3.00	9.00	9.00	50	%	50%	50% 50%	Intermedia Intermedia			230 250 250	37.12 37.12	1	F B	45 45		10	-2 -2	5% 5% 5%	37 45	C	1	-2 -2	959	6 O	24 22 36	Sleeping
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	Roadw	vay Daytime	Living/Dining	71		3	45	1	29	3.00	6	.00	3.00	18.00	18.00	70	%	70%	30%	Intermedia	e 140.9		270	27.56	0	D	45	D	7	-4	5%	45	С	4	-2	959	6 0	35 33	36
			Living/Dining Living/Dining	61		3	40 40	1 2	24	3.00	6	.00	3.00	18.00 18.00	18.00	70		70%	30%	Intermedia Intermedia	e 140.9 e 140.9		215 215	33.24 33.24	1	F B	45 45	D D	10	-4	5% 5%	39 47	C	1	-1 -1	959		31 29 36	Living / Dining Areas
	Locomot	tive Night-time	E Living/Dining E Living/Dining E Living/Dining	65 57 59		3	45 40 40	2	23 20 22	3.00 3.00 3.00	6	i.00 i.00	3.00 3.00 3.00	18.00 18.00 18.00	18.00 18.00 18.00	70	%	70% 70% 70%	30% 30% 30%	Intermedia Intermedia Intermedia			270 215 215	27.56 33.24 33.24	0 1	D F	45 45 45	D D	7 10	-4 -4 -4	5% 5% 5%	42 39 47	C	6	-1 -1	959 959 959	6 0	27 27 24	Areas
B NE	Roadw		Sleeping Quarters Sleeping Quarters			3	45	- 2	29	3.00	3	.00	3.00	9.00	9.00	50	%	50%	50%	Intermedia	e 140.9		270	27.56	0	D	45	D	7	-2	5%	40	C	4	-2	959	6 0	31 31	36
	vviiee	ei Dayume	sieeping Quarters	04		3	40 40	2	27	3.00 3.00	3	.00	3.00 3.00	9.00	9.00	50	76	50%	50% 50%	Intermedia	e 140.9		215 215	33.24 33.24	1	В	45 45	D	2	-2	5% 5%	45	C	1	-2	959 959	6 0	29 27 34	Sleeping Quarters
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			Living/Dining Living/Dining Living/Dining			3	45 40	1	19	3.00	6	.00	3.00	18.00	18.00	70	%	70%	30%	Intermedia	e 140.9 e 140.9		270	27.56	0	D	45 45	D	7	-4	5%	42 39	С	4	-1	959	6 0	34 23	34
						3	40	1	25 28	3.00	6		3.00	18.00 18.00	18.00	70	%	70%	30%	Intermedia Intermedia			215	33.24 33.24	i	В	45	D	2	-4	5%	47	Ċ	1	-1	959 959	6 0	30 34 16	Living / Dining Areas
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B SE			Sleeping Quarters Sleeping Quarters	61		3	45 40	1	19	3.00		1.00	3.00	9.00 9.00	9.00		%	50%	50% 50%	Intermedia Intermedia			270 215	27.56 33.24	0	D	45 45		7	-2	5% 5%	40 37	C	4	-2	959 959		30 21 30	34
	Whee	el Daytime	Sleeping Quarters	65		3	40		28	3.00	3	.00	3.00	9.00	9.00		%	50%	50%	Intermedia	e 140.9		215	33.24	1	В	45		2	-2	5%	45	C	1	-2	959	6 0	28 33	Sleeping
	Locomot	tive Night-time	Sleeping Quarters Sleeping Quarters Sleeping Quarters	58		3	35 35	2	26 28	3.00 3.00 3.00	3	.00	3.00 3.00	9.00 9.00 9.00	9.00 9.00 9.00	50 50	% %	50% 50% 50%	50% 50%	Intermedia Intermedia Intermedia			215 215	27.56 33.24 33.24	1 1	F B	45 45 45	D D	10 2	-2 -2 -2	5% 5%	37 45	C	6	-2 -2 -2	959 959 959	6 0	19 31 28	
	Roadwa	ay Daytime	Living/Dining Living/Dining	73 58		3	45 40	3 2	31 21	3.00	6	.00	3.00 3.00	18.00 18.00	18.00	70		70%	30% 30%	Intermedia			270 215	27.56 33.24	0	D F	45 45	D D	7 10	-4 -4	5% 5%	42 39	C	4	-1 -1	959 959	6 O	33 35 28	
	Whee	el Daytime	Living/Dining	61		3	40	2	24	3.00	6	.00	3.00	18.00	18.00	70	%	70%	30%	Intermedia			215	33.24	1	В	45		2	-4	5%	47	С	1	-1	959	6 0	26	Living / Dining
	Locomot	tive Night-time Night-time	E Living/Dining E Living/Dining E Living/Dining	54 56		3	40 40	1	17 19	3.00 3.00 3.00	6	.00	3.00 3.00 3.00	18.00 18.00 18.00	18.00 18.00 18.00	70	%	70% 70%	30% 30% 30%	Intermedia Intermedia	e 140.9 e 140.9 e 140.9		270 215 215	27.56 33.24 33.24	1	F B	45 45 45	D D	10 2	-4 -4 -4	5% 5% 5%	42 39 47	C	6	-1 -1	959 959 959	6 0	24 21	
B SW	Roadw	vay Daytime	Sleeping Quarters	73		3	45 40	3	31 21	3.00	3	.00	3.00	9.00 9.00	9.00	50	%	50% 50%	50% 50%	Intermedia Intermedia	e 140.9		270 215	27.56 33.24	0	D F	45 45	D D	7 10	-2 -2	5% 5%	40 37	C C	4	-2	959 959	6 O	30 33 26	<u>36</u>
			Sleeping Quarters Sleeping Quarters Sleeping Quarters			3	40	2	24	3.00	3	.00	3.00	9.00	9.00	50	%	50%	50%	Intermedia	e 140.9		215	33.24 27.56	1	В	45	D	7	-2	5%	37 45 40	С	6 1	-2	959	6 0	24 34 31	Sleeping Quarters
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	Locomot	tive Daytime	Living/Dining Living/Dining	51		3	45 40		14	3.00	6	.00	3.00	18.00	18.00	70 70 70	%	70%	30%	intermedia	e 140.9		270 215	27.56 33.24	0	D F	45 45	D	7 10	-4 -4	5% 5%	42 39	C C	4	-1	959 959	6 0	21	
	Whee	el Daytime	Living/Dining	54		3	40		17	3.00	6	.00	3.00	18.00				70%	30%	Intermedia			215	33.24 27.56	1	В	45 45	D	7	-4	5%	47	C	1	-1	959		19 37 30	Living / Dining Areas
3B NW	Locomot	tive Night-time	Living/Dining Living/Dining Living/Dining	47 50		3	45 40 40	1	26 10 13	3.00	6	.00	3.00 3.00 3.00	18.00 18.00	18.00	70	% %	70% 70%	30%	Intermedia Intermedia Intermedia			215 215	27.56 33.24 33.24	1	F B	45 45 45		10	-4 -4	5% 5% 5%	42 39 47	Č C	6	-1	959 959 959	6 0 6 0	15	
DD INW	Roadw	vay Daytime tive Daytime	Sleeping Quarters Sleeping Quarters Sleeping Quarters	75 51 54		3	45 40 40	3	33 14	3.00 3.00 3.00	3	.00	3.00 3.00 3.00	9.00 9.00 9.00	9.00 9.00 9.00	50 50	%	50% 50% 50%	50% 50%	Intermedia Intermedia	e 140.9 e 140.9		270 215 215	27.56 33.24 33.24	0	D F	45 45	D D	7 10	-2 -2	5% 5% 5%	40 37 45	C C	4 6	-2	959 959	6 0	30 35 19	<u>37</u>
	144	ol Daytimo	Sleeping Quarters	54		3	40		17	3.00	3	.00	3.00	9.00	9.00	50	%	50%	50%	Intermedia Intermedia	e 140.9		215	33.24	1	В	45	D	2	-2	5%	45	С	1	-2	959	6 0	17	Sleeping
	Roadw		Sleeping Quarters	68		3	40	-	31	3.00	2	.00	3.00	9.00	9.00	50	%	50%	50%	Intermedia	e 140.9		270	27.56	0	n	45	D	7	-2	5%	40	С	4	-2	950	6 0	35 33	Quarters

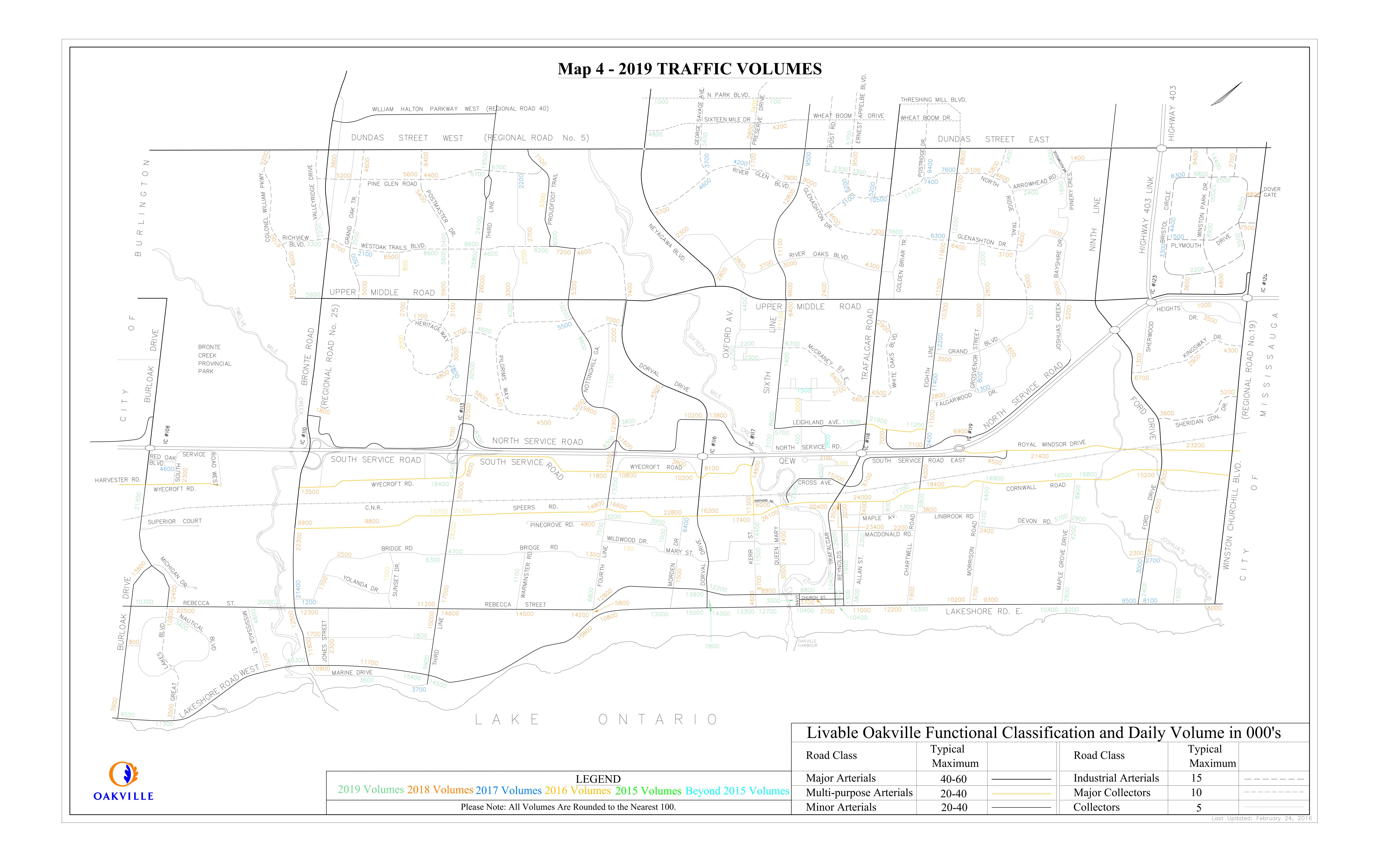
Appendix E

Traffic Information



Noise Feasibility Study - 157 and 165 Cross Avenue, Oakville, Ontario February 2024 – 23-6593







Heggart, Callum <cheggart@dillon.ca>

Road Traffic Information Request - QEW

3 messages

Heggart, Callum <cheggart@dillon.ca> To: Christopher.bee@ontario.ca

Tue, Jul 25, 2023 at 2:13 PM

Hi Christopher,

On behalf of Distrikt, Dillon Consulting Ltd. is completing a Noise Feasibility Study for a proposed residential development located at 157 and 165 Cross Avenue in Oakville, Ontario.

To support the Noise Feasibility Study, I would like to request traffic information for the QEW. Please let me know if the following information can be made available:

- Expected annual growth rate
- medium and heavy truck percentage
- hourly traffic counts or the the expected minimum hourly traffic counts/percentage of AADT for the daytime (7:00-19:00), evening (19:00-23:00), and nighttime (23:00-7:00) periods

Thanks Callum





Callum Heggart

Dillon Consulting Limited Suite 200 - 51 Breithaupt Street Kitchener, Ontario, N2H 5G5 T - 519.571.9833 ext. 3153 F - 519.571.7424 CHeggart@dillon.ca



www.dillon.ca





Bee, Christopher (MTO) < Christopher Bee@ontario.ca>

To: "Patel, Sohil (MTO)" <Sohil.Patel@ontario.ca>, "Heggart, Callum" <cheggart@dillon.ca>

Cc: "Bee, Christopher (MTO)" < Christopher Bee@ontario.ca>

Tue, Jul 25, 2023 at 4:21 PM

To Sohil:

Can you please respond to Callum Heggart's Dillon request for data below.

Let me know if you have any questions.

Thanks.

Christopher Bee

MTO WR London Office

Operational Traffic Engineering Section

From: Heggart, Callum <cheggart@dillon.ca>

Sent: July 25, 2023 2:14 PM

To: Bee, Christopher (MTO) < Christopher, Bee@ontario.ca>

Subject: Road Traffic Information Request - QEW

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

[Quoted text hidden]

This message is directed in confidence solely to the person(s) named above and may contain privileged, confidential or private information which is not to be disclosed. If you are not the addressee or an authorized representative thereof, please contact the undersigned and then destroy this message.

Ce message est destiné uniquement aux personnes indiquées dans l'entête et peut contenir une information privilégiée, confidentielle ou privée et ne pouvant être divulquée. Si vous n'êtes pas le destinataire de ce message ou une personne autorisée à le recevoir, veuillez communiquer avec le soussigné et ensuite détruire ce message.

Patel, Sohil (MTO) <Sohil.Patel@ontario.ca>

Wed, Jul 26, 2023 at 9:35 AM

To: "Heggart, Callum" <cheggart@dillon.ca>

Cc: "Bee, Christopher (MTO)" < Christopher.Bee@ontario.ca>, "Schmid, Kelly (MTO)" < Kelly.Schmid@ontario.ca>

Hello Callum,

Please see below in Red which are the numbers from 2021 counts between Dorval Road and Trafalgar Road. MTO does not have recent hourly counts at this location.

- Expected annual growth rate: 3.2%
- medium and heavy truck percentage:- 9%
- hourly traffic counts or the the expected minimum hourly traffic counts/percentage of AADT for the daytime (7:00-19:00), evening (19:00-23:00), and nighttime (23:00-7:00) periods:- AADT 219,100

Thank you,

Sohil Patel, Traffic Analyst

Highway Operations Management Branch

Operational Traffic Engineering Section

Ministry of Transportation,

289 St Paul St, St. Catharines, ON L2R 3M8

Cell:613-583-8946

[Quoted text hidden]



Train Count Data

System Engineering Engineering Services

1 Administration Road Concord, ON, L4K 1B9 T: 905.669.3264 F: 905.760.3406

TRANSMITTAL

To: Destinataire :	Dillon Consulting 51 Breithaupt Street, Suite 200 Kitchener ON N2H 5G5	Project :	OAK-21.20- Trafalgar Road, Oakville, ON
Att'n:	Callum Heggart	Routing:	cheggart@dillon.ca
From: Expéditeur :	Umair Naveed	Date:	11/21/2023
Cc:	Adjacent Development CN via e-mail		
☐ Urgent	☐ For Your Use ☐ For I	Review	For Your Information Confidential
	in Traffic Data – CN O Oakville, ON	akville	Subdivision near 165 Cross
			fic Data; this data does not reflect GO mount of \$500.00 +HST will be
Should you permits.gld		se do not	hesitate to contact the undersigned at
Sincerely,			
Umair	Naveed		
Umair Nave Officer Publ Permits.gld	lic Works – Eastern Cana	da	

Train Count Data Page 1

Project Number: OAK-21.20- Trafalgar Road, Oakville, ON

Dear Callum Heggart:

Date: 2023/11/21

Re: Train Traffic Data – CN Oakville Subdivision near 165 Cross Avenue in Oakville, ON

The following is provided in response to Callum Heggart's 2023/07/25 request for information regarding rail traffic in the vicinity of 165 Cross Avenue Street in Oakville at approximately Mile 21.20 on CN's Oakville Subdivision.

Typical daily traffic volumes are recorded below. However, traffic volumes may fluctuate due to overall economic conditions, varying traffic demands, weather conditions, track maintenance programs, statutory holidays and traffic detours that when required may be heavy although temporary. For the purpose of noise and vibration reports, train volumes must be escalated by 2.5% per annum for a 10-year period.

Typical daily traffic volumes at this site location are as follows:

*Maximum train speed is given in Miles per Hour

	0	1		
	0700-2300			
Type of Train	Volumes	Max.Consist	Max. Speed	Max. Power
Freight	0	140	60	4
Way Freight	3	25	60	4
Passenger	14	10	95	2

	2300-0700			
Type of Train	Volumes	Max.Consist	Max. Speed	Max. Power
Freight	0	140	60	4
Way Freight	4	25	60	4
Passenger	0	10	95	2

The volumes recorded reflect westbound and eastbound freight and passenger operations on CN's Oakville Subdivision.

Except where anti-whistling bylaws are in effect, engine-warning whistles and bells are normally sounded at all at-grade crossings. There are two (2) at-grade crossings in the immediate vicinity of the study area at Mile 20.55 Chartwell Road and Mile 21.94 Kerr Street. Anti-whistling bylaws are in effect at these crossings. Please note that engine warning whistles may be sounded in cases of emergency, as a safety and or warning precaution at station locations and pedestrian crossings and occasionally for operating requirements.

With respect to equipment restrictions, the gross weight of the heaviest permissible car is 286,000 lbs.

The triple (3) mainline track is considered to be continuously welded rail throughout the study area. The presence of four (4) switches located at Mile 21.92, 22.04, 22.05 and 22.13 may exacerbate the noise and vibration caused by train movements.

The Canadian National Railway continues to be strongly opposed to locating developments near railway facilities and rights-of-way due to potential safety and environmental conflicts. Development adjacent to the Railway Right-of-Way is not appropriate without sound impact mitigation measures to reduce the incompatibility. For confirmation of the applicable rail noise, vibration and safety standards, Adjacent Development, Canadian National Railway Properties at Proximity@cn.ca should be contacted directly.

I trust the above information will satisfy your current request.

Sincerely,

Umain Naveed

Umair Naveed Officer Public Works – Eastern Canada Permits.gld@cn.ca



Heggart, Callum <cheggart@dillon.ca>

Rail Traffic Information Request - GO Oakville Subdivision

2 messages

Heggart, Callum <cheggart@dillon.ca>
To: raildatarequests@metrolinx.com

Tue, Jul 25, 2023 at 2:15 PM

Hi,

On behalf of Distrikt, Dillon Consulting Ltd. is completing a Noise Feasibility Study for a proposed residential development located at 157 and 165 Cross Avenue in Oakville, Ontario.

To support the Noise Feasibility Study, I would like to request rail information for the Oakville subdivision in proximity to the proposed development. Please let me know if the following information can be made available:

- GO train volumes for the daytime and nighttime periods
- Maximum locomotives and cars associated with each train type
- Speed of each train type in proximity to 165 Cross Avenue
- · Expected annual growth rate of rail traffic in the area
- Whether whistles are sounded during typical operations in the area

Thanks Callum





Callum Heggart

Dillon Consulting Limited
Suite 200 - 51 Breithaupt Street
Kitchener, Ontario, N2H 5G5
T - 519.571.9833 ext. 3153
F - 519.571.7424
CHeggart@dillon.ca







Rail Data Requests <RailDataRequests@metrolinx.com>
To: "Heggart, Callum" <cheggart@dillon.ca>

Thu, Aug 10, 2023 at 1:47 PM

Hi Callum,

Further to your request dated July 25th 2023, the subject lands (157 and 165 Cross Avenue, Oakville) are located within 300 metres of the CN 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 1 locomotives and 10 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 408 trains. The planned detailed trip breakdown is listed below:

ı	1 Diesel	2 Diesel	1 Electric	2 Electric	1 Diesel	2 Diesel	1 Electric	2 Electric
1	Locomotive	Locomotives	Locomotive	Locomotives	Locomotive	Locomotives	Locomotive	Locomotives
1								

8/24/23, 3:29 PM

Day (0700- 2300)	132	0	222	0	Night (2300- 0700)	20	0	34	0	
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The current track design speed near the subject lands is 80 mph (129 km/h).

There are anti-whistling by-laws in affect near the subject lands at Kerr St, Chartwell Rd, and Fourth Line

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 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.

Justin Neale

Third Party Projects Review Team

Metrolinx | 10 Bay Street | Toronto | Ontario | M5J 2W3

From: Heggart, Callum <cheggart@dillon.ca>

Sent: July 25, 2023 2:15 PM

To: Rail Data Requests < RailDataRequests@metrolinx.com > Subject: Rail Traffic Information Request - GO Oakville Subdivision

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Appendix F

Industrial Classification



Category	Outputs	Scale	Process	Operations/Intensity	Possible Examples
Class I	 Noise: Sound not audible off property Dust and/or Odour: Infrequent and not intense Vibration: No ground borne vibration on plant property 	 No outside storage Small scale plant or scale is irrelevant in relation to all other criteria for this Class 	Self-contained plant or building which produces/stores a packaged product. Low probability of fugitive emissions	Daytime operations only Infrequent movement of products and/or heavy trucks	 Electronics manufacturing and repair Furniture repair and refinishing Beverages bottling Auto parts supply Packaging and crafting services Distribution of dairy products Laundry and linen supply
Class II	 Noise: Sound occasionally audible off property Dust and/or Odour: Frequent and occasionally intense Vibration: Possible groundborne vibration, but cannot be perceived off property 	 Outside storage permitted Medium level of production allowed 	 Open process Periodic outputs of minor annoyance Low probability of fugitive emissions 	Shift operations permitted Frequent movement of products and/or heavy trucks with the majority of movements during daytime hours	 Magazine printing Paint spray booths Metal command Electrical production manufacturing Manufacturing of dairy products Dry cleaning services Feed packing plant
Class III	 Noise: sound frequently audible off property Dust and/or Odour: Persistent and/or intense Vibration: Ground-borne vibration can frequently be perceived off property 	 Outside storage of raw and finished products Large production levels 	 Open process Frequent outputs of major annoyances High probability of fugitive emissions 	 Continuous movement of products and employees Daily shift operations permitted 	 Manufacturing of paint and varnish Organic chemicals manufacturing Breweries Solvent recovery plants Soaps and detergent manufacturing Manufacturing of resins and costing Metal manufacturing

Appendix G

Stationary Noise Source Data



Noise Feasibility Study - 157 and 165 Cross Avenue, Oakville, Ontario February 2024 – 23-6593



6		Overall	Information								
Source	31.5	63	125	250	500	1000	2000	4000	8000	(dBA)	Source
HVAC (5-ton)			69.0	72.0	77.0	76.0	72.0	66.0	58.0	79.7	Dillon Library
Air-Cooled Condenser	106.1	100.4	93.6	88.2	85.3	84.4	82.9	76.6	70.6	89.7	Dillon Library
Truck Movement	112.2	112	110.9	105.9	102.3	100.9	101	96	90.6	107.1	Dillon Library
Truck Back-up Beeper	103.4	97.9	93.3	92.5	90.5	96.3	90.6	80.7	73.2	98.3[1]	Dillon Library
Idling Reefer Truck	101.8	105.5	94.2	95.2	94.8	89.2	86.7	81.3	73.8	95.7	Field Measurements
Car Wash Bay	83.9	80.7	76.6	77.3	75.2	75.7	78.3	80.8	79.8	85.8	Field Measurements
Vacuum	81.8	82.2	77.7	73.7	79.4	82.9	87.6	88.4	82.5	93.0	Field Measurements
Air Tools	93.6	88.9	93.4	86.8	90.3	89.4	96.6	96.1	95.9	102.0 ^[2]	Dillon Library

Notes: [1] Not inclusive of the +5 dB tonal penalty [2] Not inclusive of the +10 dB quasi-steady impulsive penalty

References

Ontario Ministry of Environment Publication NPC-300, Environmental Noise Guideline, Stationary and Transportation Sources- Approval and Planning, October 2013.

US FTA Transit Noise and Vibration Impact Assessment Manual, 2018

Guidelines for New Development in Proximity to Railway Operations, Railway Association of Canada and Federation of Canadian Municipalities, May 2013.

