

November 4, 2022 Ref: 2020-20

### **Dymon Group of Companies**

c/o James Byck, Regional Director – Construction (Toronto) 2-1830 Walkley Road Ottawa, ON K1H 8K3

By email: JByck@Dymon.ca

Re: 6333 Hurontario Street Parking Study

#### Dear James:

Dymon Group of Companies (Dymon) is proposing to develop 6333 Hurontario Street. The property has an existing detached single-family building which will be removed as part of this development. The proposed development includes a 20,726 square metre Dymon Self-Storage Facility (including a 1,103 square metres internal drive aisle and an 884 square metres reception/retail area), and a 6,824 square metres of third-party office space. A total of 213 parking spaces are proposed, out of which 25 are dedicated to the self-storage warehouse and retail and 188 are dedicated to the third-party office. All self-storage parking spaces are at-grade, including 7 parking spaces in the internal drive aisle. Six of the office parking spaces are at-grade while the rest 182 parking spaces are located across two underground levels. A total of 9 accessible parking spaces will be provided to all uses. The site will also include one exterior loading dock, and space in the interior loading area for additional overflow parking / unloading vehicles. Attachment 1 includes the proposed site plan.

This letter has been prepared to address the transportation requirements of the proposed Dymon Self-Storage and Work Refined Facility and will examine the site parking requirements.

### **Dymon Business Model and Site Context**

Dymon offers a unique customer-centric storage solution unlike anything else in the marketplace. Unlike traditional self storage operations, Dymon facilities are located along arterial corridors, in very prominent locations within close proximity to its residential and business customers. With its high level of security, total humidity and climate control environment, and relentless focus on customer service, Dymon offers a reliable extension to people's homes and businesses. The primary access to Dymon's facilities is via an interior loading area (with secure access 24 hours a day) that protects customers from the weather while loading/unloading their possessions. By providing this interior area the reliance on surface parking is significantly reduced, as up to 75% of visitors to the site during any period use the interior loading bay, rather than the provided parking lot. In fact, any visit after the initial visit uses the interior loading area as this is the direct access to the storage lockers. Dymon sites include a reception and a retail area that is not used directly for self-storage. This space has several functions, including allowing space for new customers to come in and rent a storage locker or purchase storage supplies (boxes, tape, bubble wrap, etc.). In Spring 2019 Dymon expanded the services available in this space to include home storage solutions including closet organizers, under counter shelving, and storage bins. This service is now offered at several Ottawa Dymon locations.

### Parking Generation / Requirement

The proposed development will provide a total of 25 and 188 parking spaces for Dymon's self-storage and retail facility and third-party office, respectively. The parking provision for the self-storage and retail facility will include 18 exterior parking stalls and 7 interior parking stalls at grade. The third-party office will have 6 at-grade parking stalls and 185 underground parking stalls. The zoning requirements and parking provisions are summarized in Table 1.

Table 1: Vehicle Parking Requirement Zoning By-Law Approach

Land Use	GFA (s.m.)	Parking Rate (Required)	Parking Spaces (Required)	Parking Spaces (Provided)	Difference
Self-Storage Warehouse, Reception, and Retail	20,726	0.6 spaces per 100 m <sup>2</sup> GFA – non- residential over 6 975 m2 GFA - non- residential (exclusive of storage parking)	124	25	-99
Third-Party Office	6,824	3.2 spaces per 100 m <sup>2</sup> GFA – non- residential	218	188	-27
Total			342	213	-126

As noted above, the proposed site does not include the number of parking stalls prescribed by the zoning by-law. The proposed site includes 213 parking spaces, whereas the requirement is 342 parking spaces.

To support the proposed parking variance for the self-storage warehouse, a parking survey has been undertaken at four proxy sites operated by Dymon in Ottawa and GTA. These sites have been selected as they are similar to the proposed development and have similar features (Land Uses, Arterial Road Access). The selected sites include the Dymon retail functions and sell the home storage solutions discussed previously. These will operate in the same manner as the proposed site plan at 6333 Hurontario Street and are appropriate proxy sites for comparison. Attachment 2 contains the proxy parking generation counts for 323 Coventry Road and 300 Greenbank Road in Ottawa, 1460 The Queensway in Toronto, and 5 Nevets Road in Brampton.

323 Coventry includes parking operations that will not be present on the proposed 6333 Hurontario Street site. 323 Coventry currently has parking stalls reserved for long term parking. While these are reserved for this use it is possible for vehicles to park in these stalls throughout the day. To ensure that the daily, short-term, high turnover parking requirements are accurately captured the parking survey for this site was undertaken starting 30 minutes prior to the opening of the site and ending 30 minutes after the site closed for business. This was done for both the weekday and weekend survey periods. The minimum number of parking stalls occupied throughout the entirety of each survey period was noted. This was then subtracted from the maximum total parking demand. This represents the maximum short-term demand. Additionally, as noted on the approved site plan there are 11 parking stalls that are not in use to accommodate truck turning movements. Through the site survey it was determined that eight parking stalls are not in use in this area and are signed to prohibit parking. Table 2 below summarizes the total parking provisions for 323 Coventry Road.

Table 2: 323 Coventry Road Parking Provisions

Total Parking Stalls	Unsecured Parking Stalls	Secured Parking Stalls	Restricted to Accommodate Truck Movements
44	18	26	8

The 18 unsecured parking stalls noted above are potentially available for short-term parking (the secured parking is reserved for long-term parking). However, the survey found that four of the unsecured parking stalls were occupied at the start / end of the survey and are therefore not available for use as short-term parking stalls. The remaining 14 parking stalls were assumed to be available for short-term parking use.

300 Greenbank Road does not accommodate long term parking, as a result there was no need to account for the impact in the counts, and the peak periods were surveyed to capture a relevant data set.

Table 3 summarizes the parking supply and parking demand for the four sites as well as the calculated parking supply rate and parking demand rate. The exterior parking supply has been included. For 323 Coventry Road this supply has been calculated based on the number of parking stalls not in use for long-term parking.



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As Dymon's business model makes use of an interior loading space, that can accommodate more vehicles than the defined parking stalls, the interior parking supply has been tabulated based on the maximum demand for interior parking observed at each site.

Table 3: Parking Survey Summary

Site	GFA Storage & Retail (m²)	Parking Supply (Exterior)	Parking Supply (Interior)	Parking Supply (Total)	Parking Demand	Parking Supply Rate	Parking Demand Rate
323 Coventry	12,351	14	7	21	11	0.17/100m <sup>2</sup>	0.09/100m <sup>2</sup>
300 Greenbank	9,195	9	5	14	11	0.15/100m <sup>2</sup>	0.12/100m <sup>2</sup>
1460 The Queensway (Self- Storage)	28,799	233	59	292	49	1.01/100m²	0.17/100m <sup>2</sup>
5 Nevets	13,012	34	7	41	13	0.32/100m <sup>2</sup>	0.10/100m <sup>2</sup>
Average	-	-	-	-	-	0.41/100m <sup>2</sup>	0.12/100m <sup>2</sup>

It was found that an increase in parking demand is not strongly correlated to an increase in gross floor area. Based on the proposed site plan for 6333 Hurontario Street, the gross floor area, and parking stall provisions, the parking rate provided for the proposed development has been calculated. Table 4 summarizes the 6333 Hurontario Street parking provisions.

Table 4: 6333 Hurontario Street Parking Provisions – Dymon

Use	GFA (m²)	Parking Provided	Parking Rate (Provided)
Dymon Self-Storage & Retail	20,726	25	0.12 spaces per 100 m <sup>2</sup>

It has been calculated that parking is proposed to be provided at a rate of 0.12 spaces per 100 square metres of gross floor area. While this is less than the parking rate requested by the City of Mississauga, this demand rate falls around the average surveyed parking demand rate at comparable Dymon sites.

In addition to the above, patrons will utilize the interior loading space more efficiently than other areas of the site as they will park within the interior loading area to facilitate loading and unloading. On the two Ottawa sites where this was surveyed, more than 40% of all parked vehicles utilized the interior loading area for parking.

As a supplementary analysis, the number of vehicles entering the interior loading area, versus the rest of the site was counted. Table 5 summarizes the interior loading bay usage.

Table 5: Interior Loading Bay Usage

Site	Wee	kday	Saturday		
	Exterior%	Interior%	Exterior%	Interior%	
323 Coventry	57%	43%	58%	42%	
300 Greenbank	42%	58%	54%	46%	

As shown above the interior loading area is of critical importance to the parking operations of the site.

To support the proposed parking variance for the third-party office use, the ITE Parking Generation Rates for ITE Land Use (LUC 710) General Office Building have been used to calculate the parking generation. Attachment 3 includes a summary of the description of LUC 710. This parking generation rate has been determined using 148 data points. All the points within this dataset followed a general trend line, with equal variance above and below the trip generation curve, and no outliers. Table 6 summarizes the parking generation for the proposed site based on the ITE LUC 710 rates and the site parking provisions.



Table 6: Vehicle Parking Requirement ITE Approach

Land Use	GFA (s.m.)	Parking Rate (ITE)	Parking Spaces (Required)	Parking Spaces (Provided)	Difference
Third-Party Office	6,824	2.57 spaces per 100 m <sup>2</sup> GFA	175	188	13

Using the ITE parking generation rates, the parking spaces provided for office use exceed the average weekday parking demand of a General Office Building (LUC 710) by 13 parking stalls. While this is less than the parking rate requested by the City of Mississauga Zoning By-law, the demand generated by the third-party office component of the proposed development is expected to be met. Table 7 summarizes the total parking demand.

Table 7: Parking Requirement – Demand Approach

Land Use	GFA (s.m.)	Parking Rate (Required)	Parking Spaces (Required)	Parking Spaces (Provided)	Difference
Self-Storage Warehouse and Retail	20,726	0.12 spaces per 100 m <sup>2</sup>	25	25	0
Third-Party Office	6,824	2.57 spaces per 100 m <sup>2</sup> GFA	175	188	13

In addition to the above, the third-party office component is expected to be rented out to multiple tenants on a day-by-day basis. Given this shared-use model, it is expected that the office component of the development will not operate at a full capacity. Further, a shared office use will result in flattening of the peak hour office generated trips, as occasional and uncoordinated office users are more likely to arrive and leave the site during off-peak hours when compared to office users who work in an office building full-time and belong to a single organisation.

Further, higher order transit will be provided along Hurontario Street in future horizons. The Hurontario LRT is expected to be completed in 2024 and will increase the transit mode share in the Study Area, reducing the reliance on personal vehicles and the parking demand along Hurontario Street corridor.

Considering the proxy site and ITE parking requirements, along with the specifics of the proposed third-party office use and an expected reduction in auto trips as a result of future Hurontario LRT, the parking provisions for both the Dymon self-storage and third-party office uses are adequate.

### **Accessible Parking**

<u>Accessible parking spaces are</u> requirements and provisions are summarized in Table 8. Since a reduction from the zoning by-law requirement is sought for both the self-storage and the third-party office components and such reduction is supported by the proxy site survey data and the ITE parking rates, the accessible parking spaces will be provided based on the number of total parking spaces proposed, instead of the total parking spaces required by the zoning by-law.

Table 8: Accessible Parking Requirement - Zoning By-Law Approach

Land Use	Total Number Of Required Non-Residential Parking Spaces	Range	Minimum Accessible Parking Rate (Required)	Minimum Accessible Parking Spaces (Required)	Parking Spaces (Provided)	Meeting the Requirement?
Self-Storage Warehouse and Retail	25	13-100	4% of the total	1 Type A	1 Type A 1 Type B	Yes
Third-Party Office	188	201-1000	2.0 spaces plus 2% of the total	3 Type A 3 Type B	3 Type A 4 Type B	Yes
Total	213			4 Type A 3 Type B	4 Type A 5 Type B	Yes



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As shown above, the accessible parking provisions satisfy the zoning by-law requirements.

### **Bicycle Parking**

Bicycle parking requirements and provisions are summarized in Table 9.

Table 9: Bicycle Parking Requirement - Zoning By-Law Approach

Land Use	Long-Term / Class A Rate (Required)	Long-Term / Class A (Required)	Long-Term (Provided)	Short-Term / Class B Rate (Required)	Short-Term / Class B (Required)	Short-Term (Provided)
Self Storage Facility	n/a	0	-	2.0 spaces	2	-
Office (6,824 m²)	0.1 spaces per 100 m <sup>2</sup> GFA - non-residential	6	-	0.1 spaces per 100 m <sup>2</sup> GFA - non-residential	6	-
Total		6	10		8	8

As shown above, the site meets the zoning by-law requirements for bicycle parking.

### **Loading Spaces**

Loading Space requirements per and provisions are summarized in Table 10.

Table 10: Loading Requirement – Zoning By-law Approach

Land Use	GFA (m²)	Criteria	Minimum Off- Street Loading Spaces	Loading Spaces Provided	Difference
Warehouse / Distribution Facility	20,726	greater than 14 000 m <sup>2</sup> : 3.0 spaces plus 1.0 additional space for each 9 300 m <sup>2</sup> GFA - non-residential or portion thereof	4	-	-
Office	6,824	greater than 2 350 m <sup>2</sup> but less than or equal to 11 600 m <sup>2</sup> : 1.0 spaces	1	-	-
Total			5	2	-3

As shown in the table, the provided loading spaces are 3 spaces short of the required.

To support the loading variance, proxy site survey is used to determine the frequency of truck visits. Table 11 summarizes the surveyed heavy vehicle In and Out trips during the heavy truck peak hour of comparable Dymon sites at 1554 Carling Avenue, 323 Coventry Road (two survey dates), 300 Greenbank Road, 1460 The Queensway and 5 Nevets Road.



Table 11: Net Peak Hour Trucks

Cito	А	M Peak Hoເ	ır	P	M Peak Hoເ	ır	Sat Peak Hour		
Site	In	Out	Net	In	Out	Net	In	Out	Net
1554 Carling	1	2	-1	0	0	0	-	_	-
323 Coventry (May Counts)	0	0	0	0	0	0	-	-	-
323 Coventry (June Counts)	0	0	0	1	3	-2	1	2	-1
300 Greenbank	2	2	0	2	2	0	0	1	-1
1460 The Queensway	0	0	0	0	0	0	0	0	0
5 Nevets Road	0	0	0	0	0	0	0	0	0

As can be seen in Table 11, trucks entering the proxy Dymon sites vary between zero and two during the truck peak hour periods. The demand for loading docks is expected to be even lower, as the proxy site turning movement counts include moving trucks, as well as garbage trucks. Considering this, two loading spaces will meet the loading space demand at the subject site.

Moreover, the City's Loading Space Regulations do not include loading space requirements for Self-Storage Warehouse. The closest land use to a Self-Storage Warehouse is Manufacturing/Warehouse, which requires a minimum of four loading spaces. Unlike a self-storage facility, where patrons may utilize personal vehicles for loading and unloading, it is expected that majority of vehicles entering a manufacturing site will be utilizing loading docks. Therefore, the Manufacturing/Warehouse loading dock requirement of four spaces is considered to be overly conservative for a self-storage facility and a provision of two loading docks is recommended. While this is less than requested by the City of Mississauga, the provision of two loading docks for both uses satisfies the expected demand based on heavy vehicle trip generation at comparable Dymon sites. On a rare occasion where an extra loading space is required, the internal parking area can accommodate a second HSU truck.

### <u>Transportation Demand Management</u>

Dymon self-storage facilities represent a unique trip generator. As introduced in previous sections, the majority of the trips to the site are expected to be made by customers who have already moved their personal belongings into one of the Dymon self-storage units. Although these trips are primarily made by auto mode in order to transport personal or business items to or from the storage facility, the number of trips produced is expected to be significantly lower than that of comparable land uses. This statement in the parking section above, which illustrated that the Parking By-law requires 124 parking spaces to be provided for the proposed self-storage land use, however, a comparable proxy site parking survey has shown that 25 parking spaces are expected to meet the demand of inbound vehicles arriving to the proposed Dymon facility. Therefore, it can be concluded that the self-storage land use will generate 80% less traffic when compared to an alternative warehouse use.



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Restricting parking below the accepted zoning for a given land use is an accepted method of limiting the number single occupant vehicle trips to a site.

Further, Dymon self-storage business model requires for the storage facilities to be located in a close proximity to its target market. This means that although the low number of customer trips are mostly constrained to the auto mode because of the need to transport personal or business belongings, these trips will be made by local residents and business owners, producing minimal vehicle kilometers traveled. This is important to note, as short-distance trips should be treated differently in context of TDM when compared to longer trips, which result in more vehicle kilometers traveled, and oftentimes utilize already constrained inter-city roadways or highways, contributing to congestion, and impacting a larger number of road users. The proximity of Dymon self-storage facilities to the user's homes and businesses also allows for pass-by trips during the peak hours, which has an even lower impact on the overall transportation network efficiency.

The subject development fronts the future Hurontario LRT Corridor, which will enhance mobility and transit experience along Hurontario Street. The completion of the LRT is expected in fall 2024. The closest LRT stops to the proposed development will be located at Courtneypark Drive to the north and at Britannia Road to the south. Relevant transit schedule and route maps will be displayed at office use entrance to minimize transit wait times and enhance transit user experience.

The proposed cross-section of Hurontario Street will include segregated bike lanes and can be seen in Attachment 4. Six bicycle parking spaces at grade are proposed within the development site plan, which will further encourage office users to utilize the proposed bike lanes on Hurontario street to reach the subject site. In addition to this, a permanent bike repair station will be provided at the site. Local area maps with cycling infrastructure will also be provided at building entrances to allow cyclists to select safer routes towards their destinations.

Pedestrian facilities have been proposed within the development site plan and will connect pedestrians to the visitor bike parking, surface vehicle parking, and pedestrian network on Hurontario Street.

#### Conclusions

Based on the key requirements of the agreed to scope, the following conclusions are made for this site:

 Based on the proxy site parking surveys and the ITE parking generation rate the provided parking will adequately serve the proposed self-storage facility.

Based on this Transportation and Parking Summary, the proposed development should be approved, from a transportation perspective.

Zhengxuan Lai, E.I.T 289-834-0646

may.lai@cghtransportation.com

Mark Crockford, P. Eng.

905-251-4070

mark.crockford@cghtransportation.com

Attachments:

Attachment 1 – Proposed Site Plan

Attachment 2 – Proxy Site Parking Data and Site Plan – Dymon Self-Storage

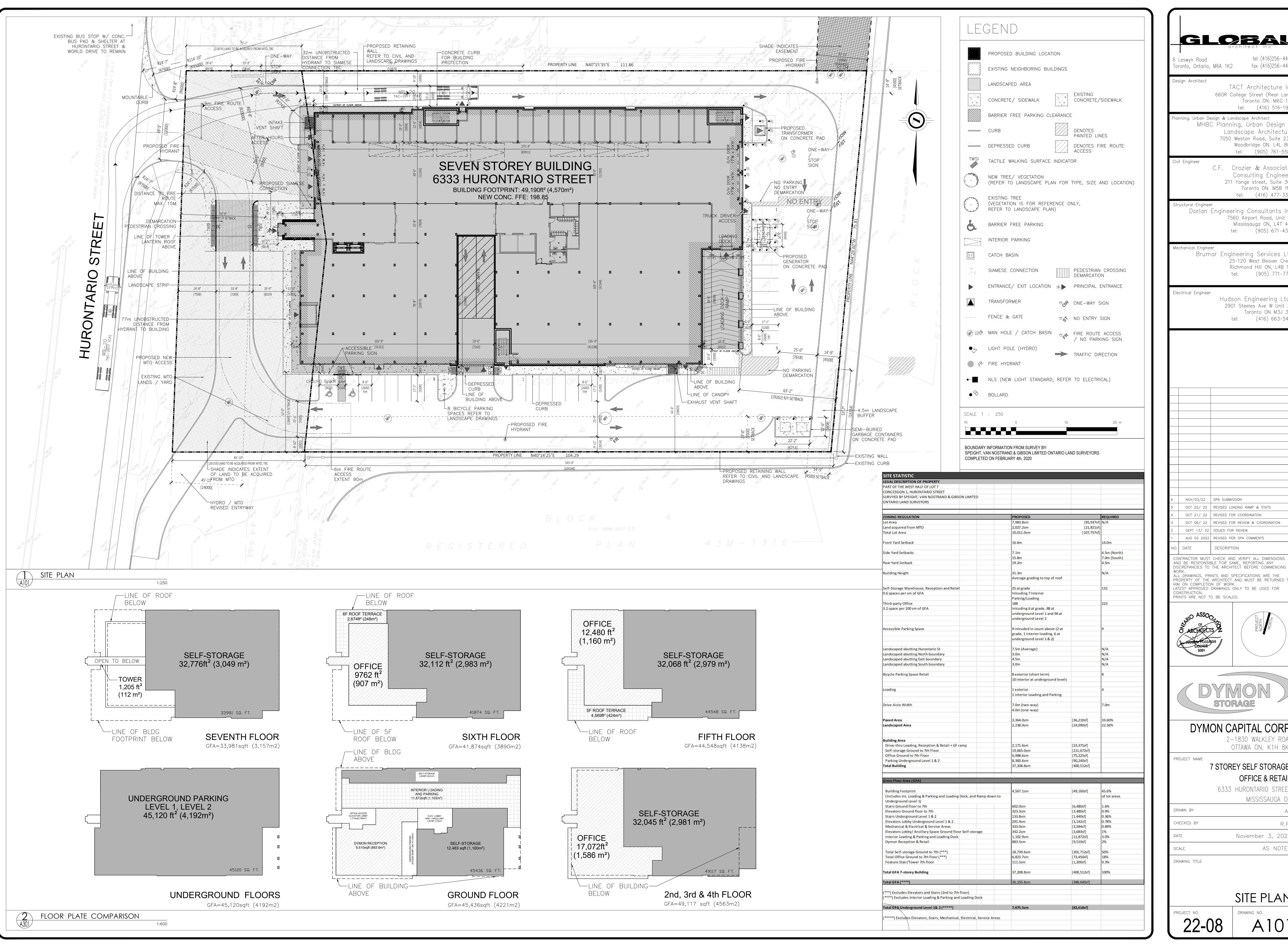
Attachment 3 – LUC 710 General Office Building Description

Attachment 4 - Future Hurontario Street Cross-Section



Proposed Site Plan





GLOBAL

tel (416)256-4440 6 Leswyn Road Toronto, Ontario, M6A 1K2 fax (416)256-4449

> TACT Architecture Ir 660R College Street (Rear Lane Toronto ON. M6G 1B8 tel: (416) 516-194

nning, Urban Design & Landscape Architect MHBC Planning, Urban Design & Landscape Architecture 7050 Weston Road, Suite 230 Woodbridge ON. L4L 80

C.F. Crozier & Associates Consulting Engineers 211 Yonge street, Suite 301, Toronto ON. M5B 1M4 tel: (416) 477-3392

tel: (905) 761-5588

Dorlan Engineering Consultants In 7560 Airport Road, Unit 1 Mississauga ON, L4T 4H4 tel: (905) 671-4377

Brumar Engineering Services Ltd 25-120 West Beaver Creek, Richmond Hill ON, L4B 1L2 tel: (905) 771-7798

Electrical Engineer

Hudson Engineering Ltd. 2901 Steeles Ave W Unit 26,

tel: (416) 663-5470

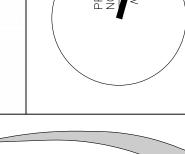
Toronto ON M3J 3A5

NOV/03/22 SPA SUBMISSION OCT 25/ 22 REVISED LOADING RAMP & STATS OCT 21/ 22 REVISED FOR COORDINATION

OCT 06/ 22 REVISED FOR REVIEW & COORDINATION SEPT 13/ 22 ISSUED FOR REVIEW AUG 02 2022 REVISED PER SPA COMMENTS DESCRIPTION

ALL DRAWINGS, PRINTS AND SPECIFICATIONS ARE THE PROPERTY OF THE ARCHITECT AND MUST BE RETURNED HIM ON COMPLETION OF WORK. LATEST APPROVED DRAWINGS ONLY TO BE USED FOR PRINTS ARE NOT TO BE SCALED.







DYMON CAPITAL CORP. 2-1830 WALKLEY ROAD

OTTAWA ON. K1H 8K3

7 STOREY SELF STORAGE, OFFICE & RETAIL

6333 HURONTARIO STREET MISSISSAUGA (

November 3, 2022

DRAWING TITLE

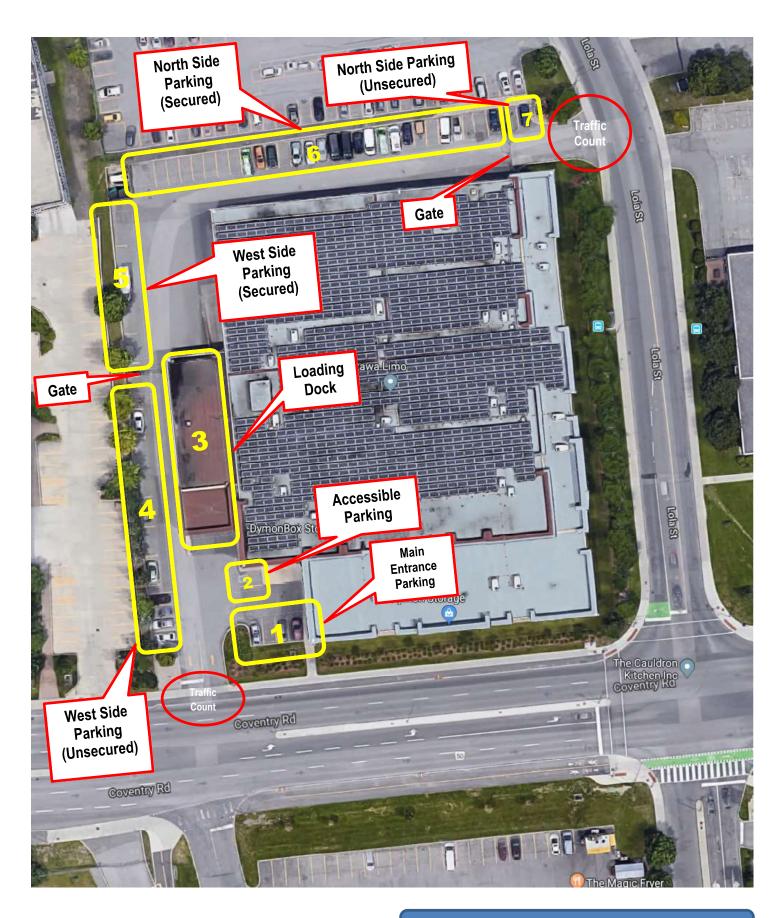
SITE PLAN

AS NOTED

DRAWING NO.

Proxy Site Parking Data and Site Plan – Dymon Self-Storage

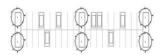






Revised: 07 June 2019

# **Off-Street Parking Usage**



## **Dymon Storage - Off Street Parking Inventory**

**Dymon Storage** 

### 323 Coventry Road, Ottawa, ON K1K 3X6

Day: MONDAY Date: 10 June 2019 Survey Hours: 0730-2130 Weather: Partly cloudy +16C/Overcast Light Rain after 1900 +23C Surveyor (s): Brazeau/Carmody

		Numbe	er of Pa	rked Ve	hicles b	y Area	
Time	Area 1 Main Entrance	Area 2 Accessible	Area 3 Loading Dock	Area 4 West Side Unsecured	Area 5 West Side Secured	Area 6 North Side Secured	Area 7 North Side Unsecured
0700							
0730	0	0	1	3	3	15	2
0800	1	0	0	3	3	15	
0830	1	0	2	3	3	15	2
0900	1	0	2 2 3	3	3	15	2
0930	1	0		3	3	15	2
1000	1	0	4	3	3	15	2
1030	2	0	0	3 3 3 3 5 6	3 3 3 3 3 3 3 4 3 3 4	15	2 2 2 2 2 2 2 2 2
1100	2 2 2	0	5	6	3	15	2
1130	2	0	6	5	3	14	2
1130 1200		0	7	6	3	14	2
1230	1	0	7	4	3	14	2 2 2
1300	1	0	1	4 3 5 4 5 4	4	15	2
1330	0	0	1	3	3	15	2
1400	0	0	1	5	3	15	2
1430	1	0	5	4	3	14	2
1500	3	0	3	5	3	14	2
1530	4	0	1	4		14	2
1600	2	0	3	4	4	14	2
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1800	3	0	2	3	3	16	2
1830	3	0	3	4	3	16	2
1900	3	0	0	2	3	17	2
1930	2	0	1	2	3	16	2
2000	3	0	1	2	3	16	2
2030	3	0	1	2	3	16	2
2100	3	0	0	2	3	16	2
2130	2	0	0	2	3	16	2
of Pkg Spaces ⇒	4	1	N/A	11	4	22	2

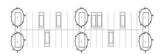
Comments
Area 4 - west side parking area, one
of the vehicles was a trailer parked for
every time period.
← Area 5 - one truck parked in middle
← Area 3 - truck in loading dock
← Area 5 - landscaping truck in middle
◆ Area 2 - truck parked beside accessible spot
← Area 5 - truck parked in middle of lot
4 / Nod 6 Walsh parhod III IIIIaalo oi lot
← Area 3 - truck in loading dock
◆ Area 3 - truck in loading dock
◆ Area 5 - pickup truck loading
Area 6 - north side parking area. Although
there are 30 spaces, parking is prohibited
in 8 of them to permit tractor trailers to
manoeuvre into the loading dock.
Accordingly, only 22 spaces are available
for long term parking.

Comments

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	Side	nred	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Area 7	North Side	Unsecured																														
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a 6	North Side	Secured																														
Area 6			4	3	3	3	3	3	3	m	3	m	3	3	4	m	8	2	8	4	4	3	3	m	3	3	3	3	3	3	3	3
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Area 4 West	Ф	Unsecured																														
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	in Ar	A	4	0	$\leftarrow$	$\vdash$	$\leftarrow$	$\vdash$	$\leftarrow$	2	2	2	2	$\leftarrow$	$\leftarrow$	0	0	$\vdash$	3	4	2	$\leftarrow$	$\vdash$	2	3	3	3	2	3	က	3	2
	1 Ma	ance																														
	Area	Entrance																														
	intry	_		730	800	830	900	930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830	1900	1930	2000	2030	2100	2130
	323 Coventry Area 1 Main Area 2	Weekday	lls																													
	323	We	Stalls																													



# **Off-Street Parking Usage**



## **Dymon Storage - Off Street Parking Inventory**

**Dymon Storage** 

### 323 Coventry Road, Ottawa, ON K1K 3X6

Day: SATURDAY Date: 8 June 2019 Survey Hours: 0830 -1830 Weather: AM Clear +10°C PM Clear +23°C Surveyor (s): Morgan/Carmody

Number of Parked Vehicles by Area   Fig. 2   F								
0700         0800         0800         0830         1         0         1         3         2         14         2         0900         2         0         4         2         3         14         2         14         2         2         3         14			Numbe	er of Pa	rked Ve	hicles b	y Area	
0730         0800         0830         1         0         1         3         2         14         2           0900         2         0         4         2         3         14         2           0930         3         1         5         2         3         14         2           1000         3         0         4         2         3         14         2           1030         3         0         4         2         3         14         2           1100         3         0         2         3         4         14         2           1130         3         0         2         3         4         14         2           1200         4         0         1         5         3         14         2           1230         4         0         1         2         3         14         2           1330         2         0         1         2         3         14         2           14400         3         0         2         2         3         14         2           1530         3         0	Time	Area 1 Main Entrance	Area 2 Accessible	Area 3 Loading Dock	Area 4 West Side Unsecured	Area 5 West Side Secured	Area 6 North Side Secured	Area 7 North Side Unsecured
0800         0830         1         0         1         3         2         14         2           0900         2         0         4         2         3         14         2           0930         3         1         5         2         3         14         2           1000         3         0         4         2         3         14         2           1030         3         0         4         3         3         14         2           1100         3         0         2         3         4         14         2           1100         3         0         2         3         4         14         2           1130         3         0         0         5         4         14         2           1200         4         0         1         5         3         14         2           1300         3         0         2         2         3         14         2           1330         2         0         1         2         3         14         2           1430         4         0         1         <	0700							
0830         1         0         1         3         2         14         2           0900         2         0         4         2         3         14         2           0930         3         1         5         2         3         14         2           1000         3         0         4         2         3         14         2           1030         3         0         4         3         3         14         2           1100         3         0         2         3         4         14         2           1130         3         0         0         5         4         14         2           1200         4         0         1         5         3         14         2           1230         4         0         1         2         3         14         2           1300         3         0         2         2         3         14         2           1330         2         0         1         2         3         14         2           14400         3         0         2         2 <td< th=""><th>0730</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	0730							
0900         2         0         4         2         3         14         2           0930         3         1         5         2         3         14         2           1000         3         0         4         2         3         14         2           1030         3         0         4         3         3         14         2           1100         3         0         2         3         4         14         2           1130         3         0         0         5         4         14         2           1200         4         0         1         5         3         14         2           1230         4         0         1         2         3         14         2           1300         3         0         2         2         3         14         2           1330         2         0         1         2         3         14         2           1400         3         0         2         2         3         13         2           1430         4         0         1         3								
0930         3         1         5         2         3         14         2           1000         3         0         4         2         3         14         2           1030         3         0         4         3         3         14         2           1100         3         0         2         3         4         14         2           1130         3         0         0         5         4         14         2           1200         4         0         1         5         3         14         2           1230         4         0         1         2         3         14         2           1300         3         0         2         2         3         14         2           1330         2         0         1         2         3         14         2           1400         3         0         2         2         3         13         2           1430         4         0         1         3         3         14         2           1500         3         0         6         3	0830			1	3	2	14	2
1130       3       0       0       5       4       14       2         1200       4       0       1       5       3       14       2         1230       4       0       1       2       3       14       2         1300       3       0       2       2       3       14       2         1330       2       0       1       2       3       14       2         1400       3       0       2       2       3       13       2         1400       3       0       2       2       3       13       2         1430       4       0       1       3       3       14       2         1500       3       0       6       3       3       14       2         1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1800       3       0       3       2       3       15					2	3		2
1130       3       0       0       5       4       14       2         1200       4       0       1       5       3       14       2         1230       4       0       1       2       3       14       2         1300       3       0       2       2       3       14       2         1330       2       0       1       2       3       14       2         1400       3       0       2       2       3       13       2         1400       3       0       2       2       3       13       2         1430       4       0       1       3       3       14       2         1500       3       0       6       3       3       14       2         1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1800       3       0       3       2       3       15		3		5	2	3		2
1130       3       0       0       5       4       14       2         1200       4       0       1       5       3       14       2         1230       4       0       1       2       3       14       2         1300       3       0       2       2       3       14       2         1330       2       0       1       2       3       14       2         1400       3       0       2       2       3       13       2         1400       3       0       2       2       3       13       2         1430       4       0       1       3       3       14       2         1500       3       0       6       3       3       14       2         1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1800       3       0       3       2       3       15	1000	3			2	3		2
1130       3       0       0       5       4       14       2         1200       4       0       1       5       3       14       2         1230       4       0       1       2       3       14       2         1300       3       0       2       2       3       14       2         1330       2       0       1       2       3       14       2         1400       3       0       2       2       3       13       2         1400       3       0       2       2       3       13       2         1430       4       0       1       3       3       14       2         1500       3       0       6       3       3       14       2         1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1800       3       0       3       2       3       15	1030	3		4	3	3		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1	1100	3		2	3			2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1900       1       2       3       15       2         1930       2       0       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       2       0       1       2       3       15       2	1130	3		0	5	4		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1	1200				5	3		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1	1230				2	3		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1	1300	3		2	2	3		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1		2			2	3		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1		3		2	2	3		2
1530       3       0       2       3       3       15       2         1600       4       0       2       3       3       15       2         1630       3       0       2       3       3       15       2         1700       3       0       1       2       3       15       2         1730       4       0       1       2       3       15       2         1800       3       0       3       2       3       15       2         1830       2       0       1       2       3       15       2         1930       1930       1       2       3       15       2         2030       2       0       1       2       3       15       2         2130       1       2       3       15       2       1	1430				3	3		2
1900	1500	3		6	3	3		
1900 1930 2000 2030 2100 2130	1530	3		2	3	3		2
1900		4		2	3	3		2
1900 1930 2000 2030 2100 2130	1630	3		2	3	3		2
1900 1930 2000 2030 2100 2130	1700					3		2
1900 1930 2000 2030 2100 2130	1730	4			2	3	15	2
1900 1930 2000 2030 2100 2130	1800	3	0	3	2	3	15	2
1930	1830	2	0	1	2	3	15	2
2000       2030       2100       2130								
2030 2100 2130								
2100 2130								
2130								
Snaces ➡ / 1 N/A 11 / 22 2	2130 Spaces <b>⇒</b>			N/A	11	_	22	

### Comments

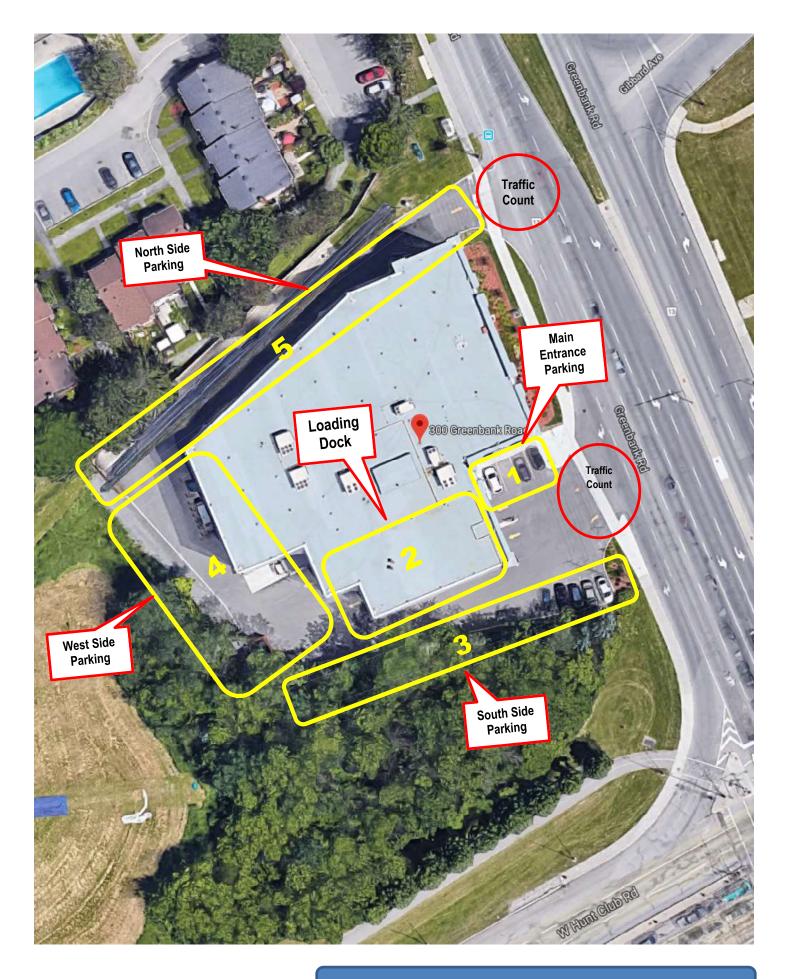
Area 4 - west side parking area one of the vehicles was a trailer parked for every time period.

Area 5 - west side parking area at 1100 and at 1130, one of the vehicles was a tractor trailer in the loading dock.

Area 6 - north side parking area 2 vehicles were trailers from 0830-1500 and after 1500-1830 3 of the vehicles were trailers.

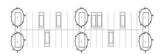
Area 6 - north side parking area Although there are 30 spaces, parking is prohibited in 8 of them to permit tractor trailers to manoeuvre into the loading dock. Accordingly, only 22 spaces are available for long term parking.

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	Total (Short	<u>-</u>																						
	Tota	Term)																						
		'		23	27	30	28	29	28	28	29	26	26	24	25	27	31	28	29	28	26	27	28	25
		Total																						
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	_	(Interior)																						
	Total	(Int																						
	Ę			0	1	3	2	3	4	9	9	3	2	1	1	4	3	4	2	4	3	4	3	2
	Total (Short																							
	otal	Term)																						
	_	_	44	22	23	25	24	25	26	28	28	25	24	23	23	56	25	26	27	56	25	56	25	24
		ior)																						
	Total	(Exterior)																						
			7	2	2	2	2	2	2	2	7	2	7	2	7	2	7	2	2	2	2	2	2	2
	North Side	Unsecured																						
Area 7	orth	ısecı																						
Ā	ž	j	22	14	14	14	14	14	14	14	14	14	14	14	13	14	14	15	15	15	15	15	15	15
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Area 6	rth 9	cure																						
Ar	Area 5 West North Side	cured Secured	4	7	33	23	2	3	4	4	2	3	3	3	3	3	3	3	3	3	3	3	3	3
	West	cure								-				. ,										
	a 5	Side Se																						
	Are	Sid	_	~	0.1	0.1	0.1	~~				0.1	0.1	0.1	0.1	~		~	~	~	2	0.1	0.1	0.1
Vest		pe.	11	3	2	2	(7	3	c	5	2	2	2	2	2	3	3	3	c	C	(1	2	2	2
Area 4 West	۵)	Unsecured																						
Are	Side	Uns																						
				$\vdash$	4	2	4	4	2	0	T	1	2	$\vdash$	2	$\vdash$	9	2	2	2	T	$\vdash$	3	1
3 3	ding	~																						
Area 3	Loading	Dock	1 N/A																					
		<u>e</u>	$\leftarrow$	0	0	$\leftarrow$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	Accessible																						
	Area	Acce																						
	ain		4	$\vdash$	7	3	3	3	က	3	4	4	3	2	3	4	က	3	4	3	3	4	n	2
	1 M	nce																						
	Area 1 Main Area 2	Entrance																						
		Ш		830	900	930	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	1730	1800	1830
	entry			00	0	0	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18
	323 Coventry	Saturday	S																					
	323	Satu	Stalls																					





# **Off-Street Parking Usage**



## **Dymon Storage - Off Street Parking Inventory**

**Dymon Storage** 

### 300 Greenbank Road, Ottawa, ON K2H 0B6

Day: MONDAY Date: 10 June 2019 Survey Hours: 0700-0900 & 1600-1800

Weather: Partly Cloudy +16C/Overcast Light Rain after 1900 +23C Surveyor (s):

		Numbe	er of Pa	rked Ve	hicles b	y Area	
Time	Area 1 Main Entrance	Area 2 Loading Dock	Area 3 South Side Parking	Area 4 West Side Parking	Area 5 North Side Parking		
0700	0	0	0	0	0		
0730	0	0	2	0	0		
0800	0	0	3	1	0		
0830	0	1	3 3	0	0		
0900	0	1	3	0	0		
0930							
1000							
1030 1100 1130							
1100							
1130							
1200							
1230 1300							
1300							
1330							
1400							
1430							
1500							
1530			_				
1600	1	2	2	0	0		
1630	0	2 3 2 2 3	1	0	0		
1700	0	2	1	0	0		
1730	0	2	4	0	0		
1800	1	3	4	0	0		
1830							
1900							
1930							
2000							
2030							
2100							
2130		N1/A					

1 employee parked 1 employee Dymon van parked near gargage bin
BFG van parked next to building
Jordash van parked in fire lane
Accessible parking area is located within the loading dock.

Mousseau

Comments

# of Pkg Spaces >

1

N/A

5

0

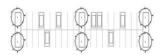
thetrafficspecialist@gmail.com

Off-Street Parking Usage

			0	2	4	4	4	2	4	3	9	∞
	Total		0	2	3	3	23	2	1	1	4	4
Total	(Interior)	6	0	0	1	1	1	3	3	2	2	4
Total	(Exterior)											
Area 5 North	side Parking	0	0	0	0	0	0	0	0	0	0	0
Area 3 South Area 4 West Area 5 North Total	Side Parking Side Parking (Exterior)	0	0	0	1	0	0	0	0	0	0	0
a 3 South Ar	e Parking Si	5	0	2	3	3	3	2	$\vdash$	$\vdash$	4	4
			0	0	0	⊣	1	2	3	2	2	3
Area 2 1 Main Loading	Dock	4 N/A	0	0	0	0	0	┖	0	0	0	1
Area 1 Ma	Entrance											
300 Greenbank Area	Weekday	S	700	730	800	830	006	1600	1630	1700	1730	1800
300	Wee	Stalls										



# **Off-Street Parking Usage**



## **Dymon Storage - Off Street Parking Inventory**

**Dymon Storage** 

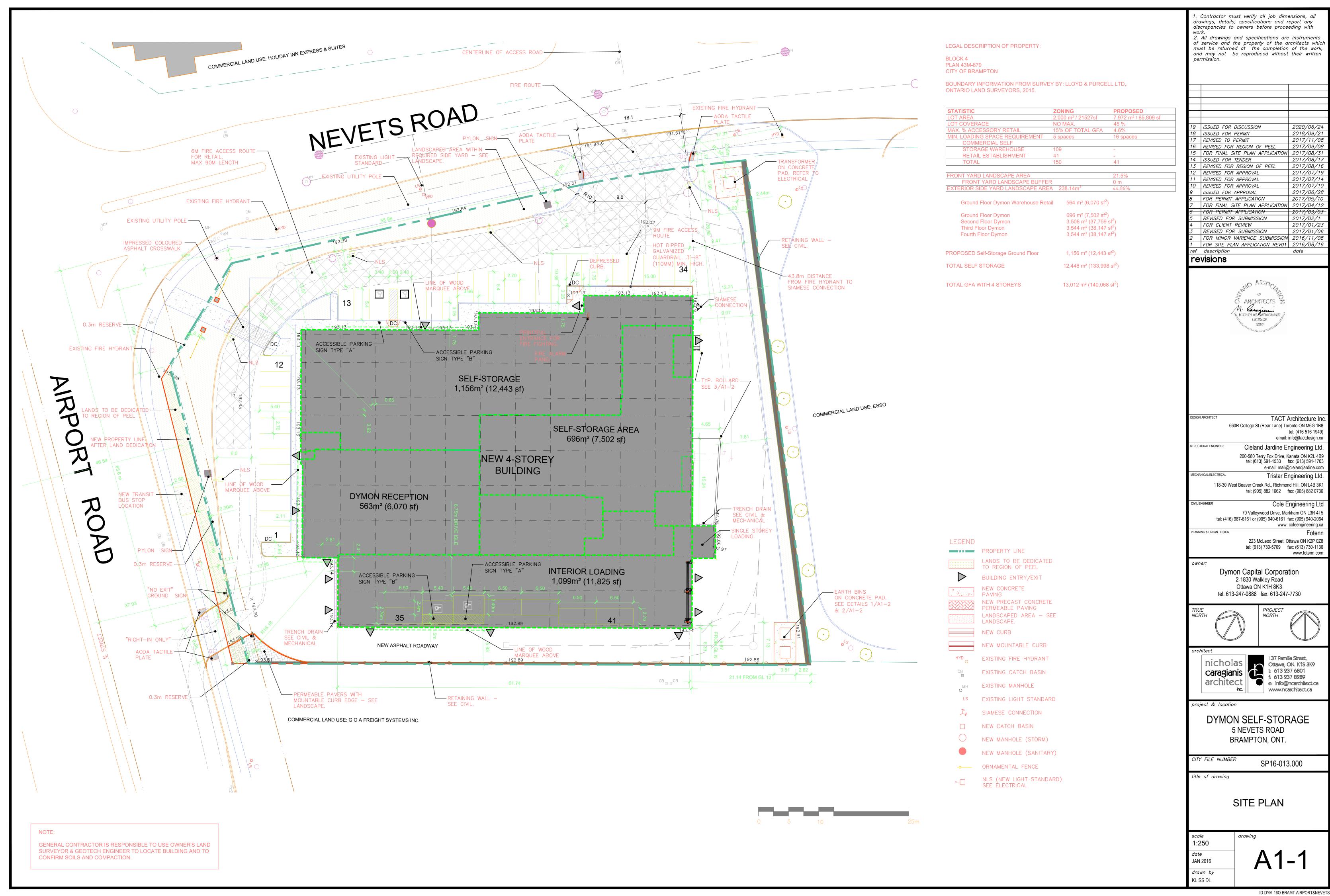
300 Greenbank Road, Ottawa, ON K2H 0B6

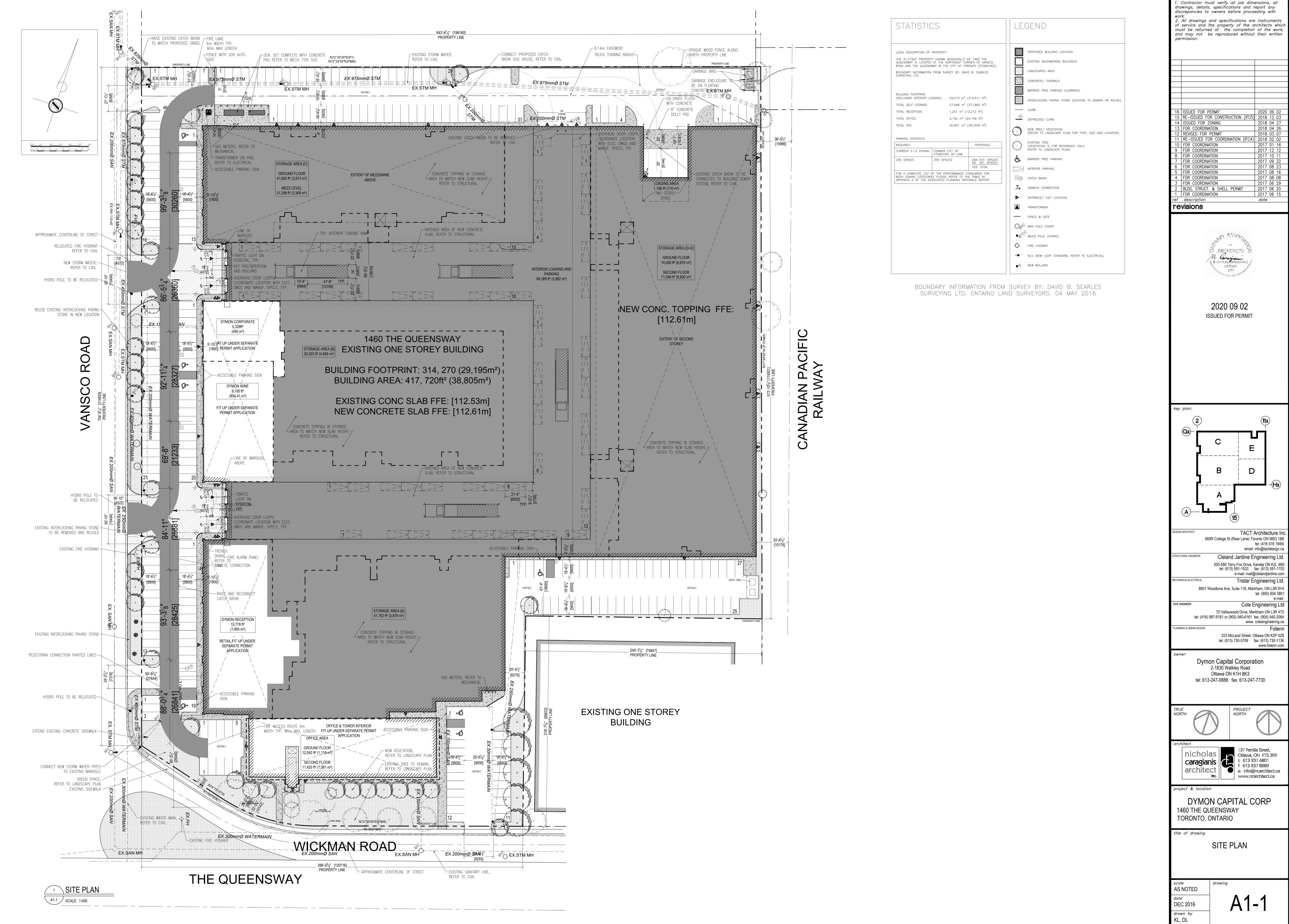
Day: SATURDAY Date: 8 June 2019 Survey Hours: 1100 - 1600 Weather: Clear +10°C Clear +23°C Surveyor (s): Mousseau

	Number of Parked Vehicles by Area kind the kind that we have a second to t													
Time	Area 1 Main Entrance	Area 2 Loading Dock	Area 3 South Side Parking	Area 4 West Side Parking	Area 5 North Side Parking									
0700														
0730														
0800														
0830														
0900														
0930														
1000														
1030														
1100	1	4	4	0	0									
1100 1130	2	6	3 3 3	0	0									
1200	1	4	3	0	0									
1230	1	1	3	0	1									
1300	1	2	3	0	0									
1330	1	1	4	0	0									
1400	0	2	5	0	1									
1430	0	2	3 4	0	0									
1500	0	7		0	0									
1530	1	6	4	0	0									
1600	0	2	4	0	0									
1630														
1630 1700 1730														
1730														
1800														
1830														
1900														
1930														
2000														
2030														
2100														
2130	_		_											
g Spaces 🗪	4	N/A	5	0	0									

Comments
At 1100 and at 1500 a van
parked in the fire lane.
Employee parking takes place
Employee parking takes place in Area #3 (3 vehicles)
Accessible parking area is
located within the loading dock.

_	tal	(Interior) Total		4 9	3 11	3	3 6	3 6	4 6	5 8	3 5	4 11	4 11	4 6
	Total		6	5	∞	2	m	m	2	m	2	7	7	2
	Area 3 South Area 4 West Area 5 North Total	Side Parking Side Parking Side Parking (Exterior)	0	0	0	0	1	0	0	1	0	0	0	0
	Area 4 West	Side Parking	0	0	0	0	0	0	0	0	0	0	0	0
	Area 3 South	Side Parking	5	4 4	6 3	4 3	1 3	2 3	1 4	2 5	2 3	7 4	6 4	2 4
Ared 2	in Loading	Dock	4 N/A	1	2	1	1	1	1	0	0	0	1	0
	Area 1 Mai	Entrance		0	0	0	0	0	0	0	0	0	0	0
	300 Greenbank Area 1 Main Loading	Saturday	Stalls	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600





### **Ontario Traffic Inc - Parking Counts**

				Sat	turday, Feb	ruary 12, 20	022		Tu	esday, Febi	ruary 15, 20	022		
			1460	The Queen	isway		5 Nevets Ro		1460	The Queen	isway		5 Nevets Ro	l
	Time		Legal	Illegal	Off-Site	Legal	Disabled	Off-Site	Legal	Illegal	Off-Site	Legal	Disabled	Off-Site
10:00	to	10:30	15	4	0	8	0	0	42	3	0	6	0	0
10:30	to	11:00	18	4	0	8	0	0	55	4	0	7	0	0
11:00	to	11:30	21	4	0	10	0	0	60	3	0	8	0	0
11:30	to	12:00	26	4	0	9	0	0	67	2	0	9	0	0
12:00	to	12:30	31	5	0	11	0	0	71	2	0	10	0	0
12:30	to	13:00	33	4	0	9	0	0	69	2	0	10	0	0
13:00	to	13:30	30	4	0	9	0	0	66	2	0	9	0	0
13:30	to	14:00	36	4	0	10	0	0	67	2	0	11	0	0
14:00	to	14:30	25	4	0	7	0	0	55	2	0	11	0	0
14:30	to	15:00	32	4	0	10	0	0	59	2	0	8	0	0
15:00	to	15:30	30	4	0	13	0	0	56	1	0	10	0	0
15:30	to	16:00	29	4	0	12	0	0	51	1	0	9	0	0
Ava	ilable Spac	es =	202			32	2		202			32	2	

LUC 710 General Office Building Description



## Land Use: 710 General Office Building

### **Description**

A general office building houses multiple tenants. It is a location where affairs of businesses, commercial or industrial organizations, or professional persons or firms are conducted. An office building or buildings may contain a mixture of tenants including professional services, insurance companies, investment brokers, and tenant services, such as a bank or savings and loan institution, a restaurant, or cafeteria and service retail facilities. A general office building with a gross floor area of 5,000 square feet or less is classified as a small office building (Land Use 712). Corporate headquarters building (Land Use 714), single tenant office building (Land Use 715), medical-dental office building (Land Use 720), office park (Land Use 750), and research and development center (Land Use 760) are additional related uses.

If information is known about individual buildings, it is suggested that the general office building category be used rather than office parks when estimating parking generation for one or more office buildings in a single development. The office park category is more general and should be used when a breakdown of individual or different uses is not known. If the general office building category is used and if additional buildings, such as banks, restaurants, or retail stores are included in the development, the development should be treated as a multiuse project. On the other hand, if the office park category is used, internal trips are already reflected in the data and do not need to be considered.

When the buildings are interrelated (defined by shared parking facilities or the ability to easily walk between buildings) or house one tenant, it is suggested that the total area or employment of all the buildings be used for calculating parking generation. When the individual buildings are isolated and not related to one another, it is suggested that parking generation be calculated for each building separately and then summed.

### **Time of Day Distribution for Parking Demand**

The following table presents a time-of-day distribution of parking demand on a weekday at 30 study sites in a general urban/suburban setting and two study sites in a dense multi-use urban setting.

	Percent of Weekday F	Peak Parking Demand
Hour Beginning	General Urban/Suburban	Dense Multi-Use Urban
12:00–4:00 a.m.	_	-
5:00 a.m.	_	-
6:00 a.m.	-	-
7:00 a.m.	13	26
8:00 a.m.	48	65
9:00 a.m.	88	95
10:00 a.m.	100	100
11:00 a.m.	100	100
12:00 p.m.	85	99
1:00 p.m.	84	99
2:00 p.m.	93	97
3:00 p.m.	94	94
4:00 p.m.	85	90
5:00 p.m.	56	-
6:00 p.m.	20	-
7:00 p.m.	11	-
8:00 p.m.	-	-
9:00 p.m.	_	-
10:00 p.m.	-	-
11:00 p.m.	_	-

### **Additional Data**

The average parking supply ratios for the study sites with parking supply information are as follows:

- 2.9 spaces per 1,000 square feet GFA in a dense multi-use urban setting that is not within ½ mile of rail transit (seven sites)
- 3.3 spaces per 1,000 square feet GFA (73 sites) and 1.2 spaces per employee (20 sites) in a general urban/suburban setting that is not within ½ mile of rail transit
- 3.0 spaces per 1,000 square feet GFA (seven sites) and 0.8 spaces per employee (two sites) in a general urban/suburban setting that is within ½ mile of rail transit

The sites were surveyed in the 1980s, the 1990s, the 2000s, and the 2010s in Arizona, California, Colorado, Connecticut, Georgia, Illinois, Massachusetts, Minnesota, Montana, New Jersey, New York, Oklahoma, Oregon, Pennsylvania, Texas, Utah, and Washington.

### **Source Numbers**

21, 22, 47, 122, 124, 142, 172, 201, 202, 205, 211, 215, 216, 217, 227, 239, 241, 243, 276, 295, 399, 400, 425, 431, 433, 436, 438, 440, 516, 531, 540, 551, 555, 556, 557, 571, 572, 588



Future Hurontario Street Cross-Section



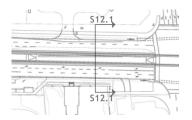
### MISSISSAUGA EMPLOYMENT

### **5.12 BRITANNIA ROAD**

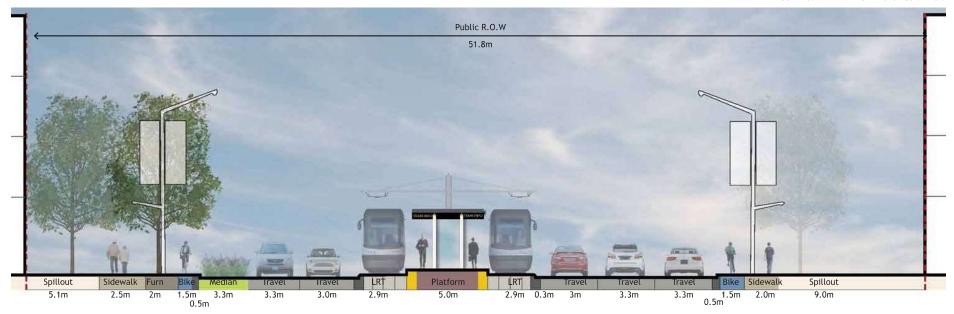
#### STREETSCAPE DESIGN RECOMMENDATIONS LEGEND:

- PPA at Brittania Road Stop. Urban streetscaping around anticipated employment nodes, and Enhanced Urban streetscaping around the stop.
- 2. Special consideration will have to be given to the existing church and its access.
- 3. Ensure pedestrian and cyclist safety and highway ramp crossing
- Pedestrian connectivity on both east and west side of the Highway 401 bridge.

#### 5.12.1 BRITANNIA ROAD - STOP CONDITION



#### FIGURE 70: BRITTANIA ROAD - STOP CONDITION



\*Section 1:150 @ 11x17

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STREETSCAPE AND URBAN DESIGN STRATEGY / HMLRT