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**ADDENDUM 1 TO FSR REGARDING WASTEWATER INFRASTRUCTURE
16-18 MILL ST, GEORGETOWN, ONTARIO**

INTRODUCTION

Comments from Halton Region on July 18, 2022 for the previous application for 16-18 Mill St, Georgetown, ON indicated that a wastewater analysis would be required as part of the FSR.

The following items were requested in the wastewater analysis:

Wastewater Analysis:

- i. outline of existing sanitary sewer system with any downstream constraints to be addressed;
- ii. sanitary sewer design sheets; and
- iii. provide internal and external Sanitary Area Drainage Plans.

This letter provides is an addendum to the FSR for addressing these issues.

OUTLINE OF EXISTING SANITARY SEWER SYSTEM

The existing sanitary system in the area consists of a 300mm PVC sanitary wastewater main adjacent to the property along Mill Street, which flows into a 450mm diameter sanitary wastewater main adjacent to the property within a Regional easement. The map of the regional sanitary sewer is included in the Appendix.

Correspondence with the Region indicated that regional sanitary sewer design sheets for the area are not available, and that an assessment of whether the existing sanitary sewer will have capacity to accommodate the proposed development, this must be requested through the planning application.

Therefore, we believe that it is up to the region to determine whether there are downstream constraints and it is not within the scope of this FSR to do those calculations.

SANITARY SEWER DESIGN SHEETS

The sanitary sewer design sheets are attached in the Appendix. The total design flow for this development is 1.28L/s, which represents 5.94% of the capacity of the proposed 150mm diameter lateral pipe to connect to the Region sanitary sewer system.

SANITARY AREA DRAINAGE PLANS

The internal sanitary drainage area is 2271.69m with 30 units and an expected population of 90. The drainage area drawing is attached in the appendix.

CONCLUSION

This letter was prepared as an addendum to the FSR to address sanitary drainage at 16-18 Mill St. We trust that this response in addition to the revised application documents are sufficient to address the Region comments. Please do not hesitate to contact us for future questions or concerns.



File 30663J
May 05, 2023
16-18 Mill St, Georgetown ON
Addendum 1 to FSR

LIMITATIONS

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Geotechnical & Environmental Engineers

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John Van Egmond, P.Eng. P.E., President , Q.P.



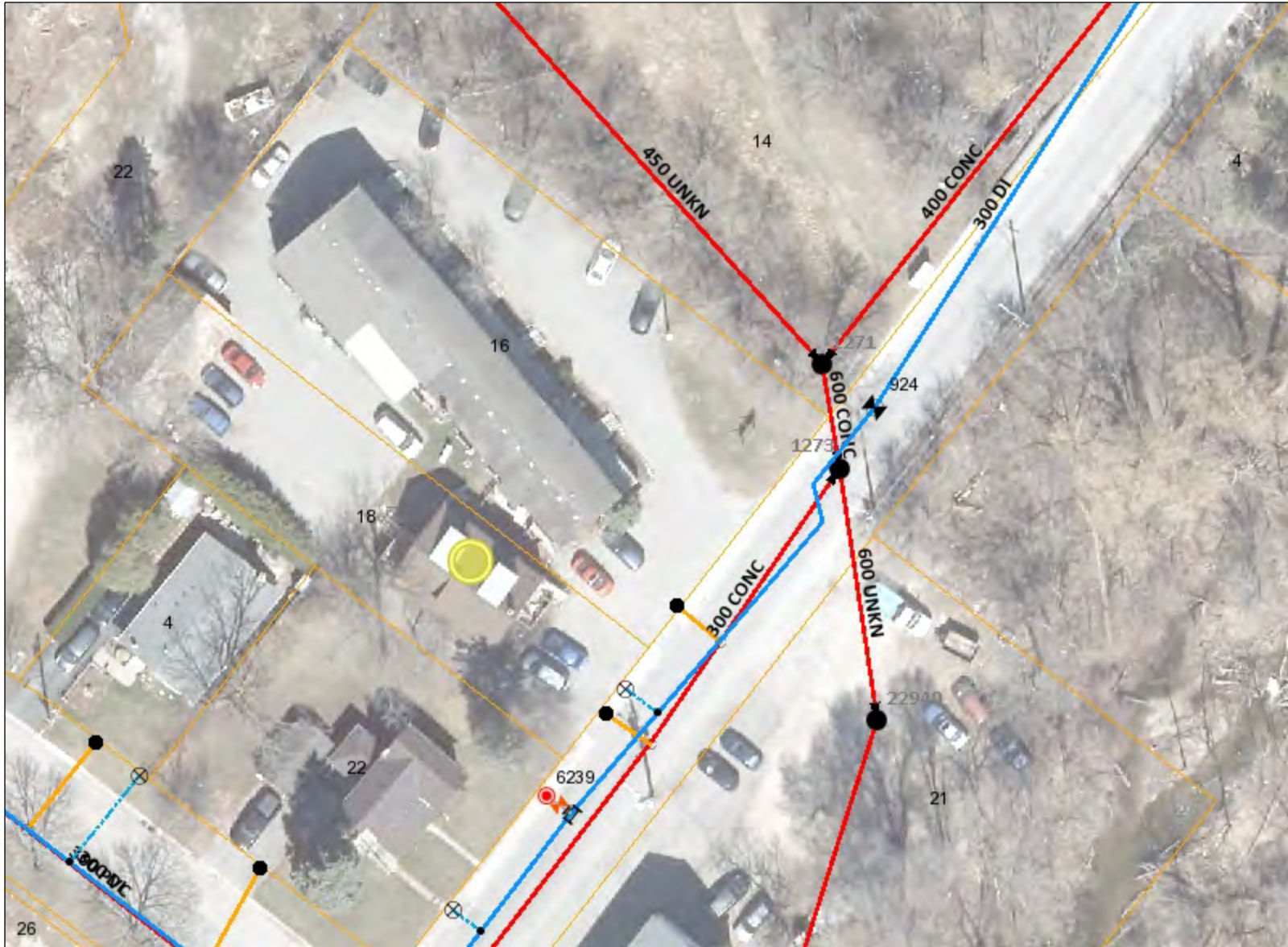


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APPENDIX
EXISTING SANITARY SYSTEM
SANITARY DESIGN SHEET

416-782-7227

16-18 Mill St, Halton Hills



Legend

- Water Control Valve**
 - System
 - SystemDP
 - Zone
 - ZoneDP
- Water Service Valve**
 - CurbStop
 - PropertyLine
 - Secondary
 - TappingValve
- Water Hydrant**
- Water Fitting**
 - Cap
 - Cross
 - HBend
 - MainStop
 - Reducer
 - Sleeve
 - TappingSleeve
 - Tee
 - VBend
- Water Chamber**
 - Chamber

Notes:

THIS MAP IS NOT TO BE USED FOR NAVIGATION

Information Valid as of:
4/3/2023

28.2 0 14.11 28.2 Metres

1:564

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SANITARY SEWER DESIGN SHEET

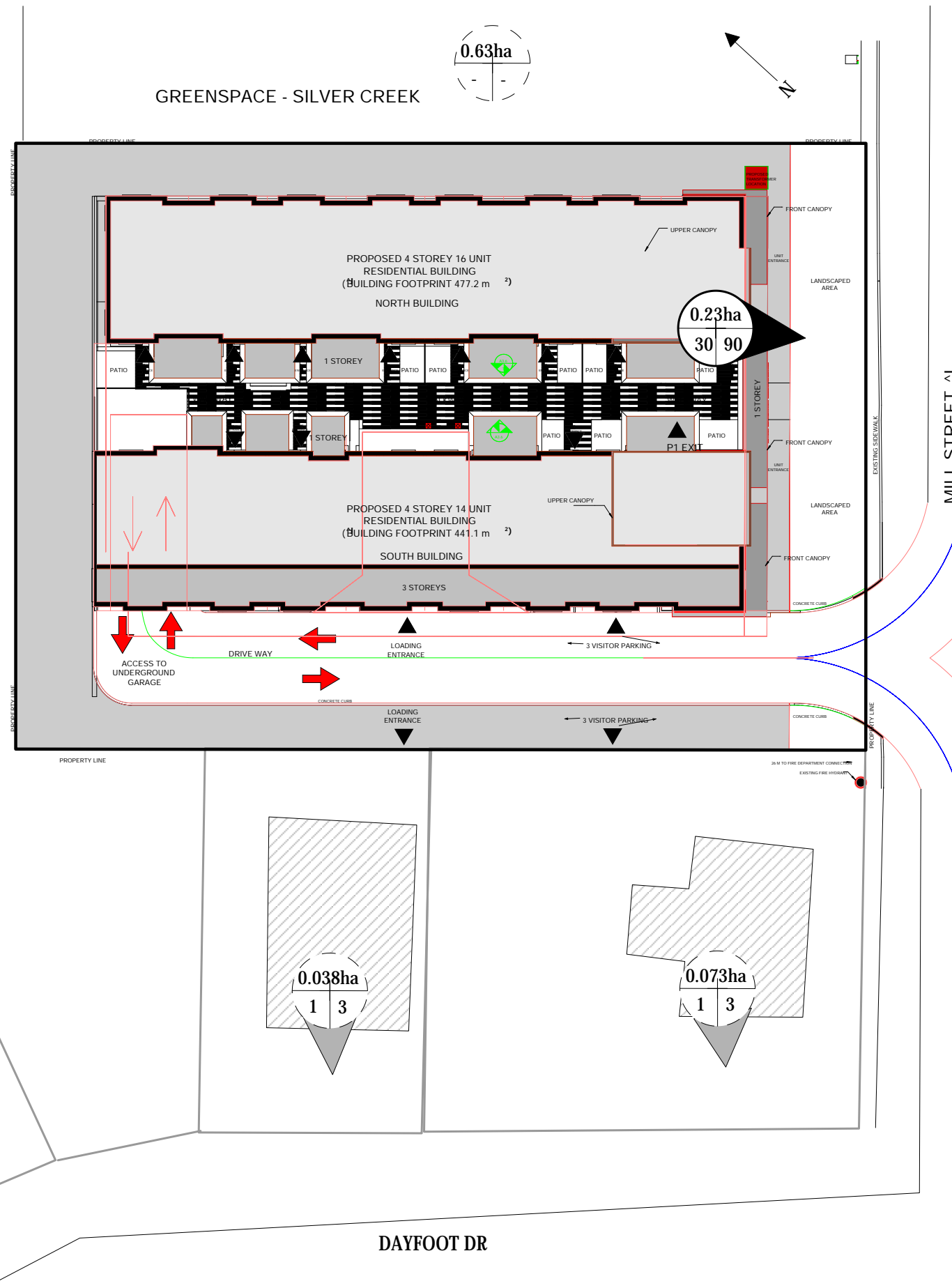
16-18 MILL STREET HALTON HILLS

Project: 16-18 Mill Street, Georgetown
Project Name: Apartment Building
Persons/Unit: 3 (Conservative)

LOCATION	RESIDENTIAL			COMMERCIAL	FLOW						PIPE DIA (mm)	SLOPE	FULL FLOW CAPACITY (n=0.013) L/s	% of Design Capacity (%)		
	Area	Number of Units	Population	Commercial Floor Area (ha)	Total Cumulative Population	Residential @ 275 L/day	Commercial 180,000L/ha/d ay	Harmon Peaking Factor Residential(Only)* Flow (L/s)	Residential Peak Flow (L/s)	Commercial Peak Flow (L/s)					Extraneous Flow L/sec	Total Design Flow (L/s)
Proposed Condition																
Residential	0.2071	30	90		90	24750	0	4.26	1.22		0.05	1.28	150	2.0%	21.54	5.94

Existing Residential Flow = 275c/day
 *Harmon Peaking Factor = $1 + [14 / (4 + P^{0.50})]$
 I/(Infiltration Inflow) = 0.26 L/ha/sec

Calc by: MFI Checked: MFI Date: 22-Jul-21	Project: 16-18 MILL STREET HALTON HILLS	Sheet No. 1 of 1
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KEY PLAN
N.T.S

Legend

- ← Drainage Area (ha)
- ← Population (ha)
- ← Unit Count (ha)
- ← Existing Drainage Area (ha)
- ← Population (ha)
- ← Unit Count (ha)
- ← Drainage Area Boundary
- ← Existing Area Boundary

**SANITARY AREA DRAINAGE PLAN
16-18 Mill St, Georgetown**

Project No: 30663J
 Site Address: 16-18 Mill St,
 Georgetown, ON
 Drawn by: JVM
 Date: 2023-05-05

