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Prepared for:

First Capital REIT

Rev. No.	Date	Description
0	November 11, 2024	Issued for Official Plan Amendment and Rezoning (ZBA) Application
1	September 10, 2025	Rev. per City comments; Re-issued for Official Plan Amendment and Rezoning (ZBA) Application

Project No.: 22-010



Executive Summary

Prospective Development Site

- The subject Site is located in the *Toronto & East York* District of Toronto, Ontario.
- The site's area is approximately 0.77 Ha and presently comprises a one-storey grocery store building with paved asphalt parking lot areas.
- The Owner is proposing to develop the Site as a mixed-use development comprising one tower and one midrise building, sharing a common podium.

Watermains & Water Servicing

- There are existing 150mm-dia. And 300mm-dia. Watermains within Danforth Ave., adjacent to the site's frontage.
- It has been determined that the existing 150mm watermain is sufficient to service the development and domestic/fire service connections are proposed to that main.

Sanitary Servicing & Combined Sewers

- There are existing parallel 300mm-dia. and 450mm-dia. combined sewers within Danforth Ave., adjacent to the Site's frontage.
- The Site is preliminarily serviceable to the combined sewers in the adjacent municipal R.O.W.
- Sanitary sewer connections are proposed to connect to the existing 300mm combined sewer.
- Combined sewer capacity & Procedure F-5-5 are addressed acceptably in the development of the site.

Storm Servicing, Storm Sewers & Stormwater Management

- There are no separated storm sewers within the municipal R.O.W. adjacent to the Site.
- It is proposed to service the Development to the existing combined sewers, to which the subject site presently (pre-development) drains.
- Stormwater management quality, quantity and retention criteria are satisfied.

Foundation Drainage & Groundwater

• The proposed building will be constructed in a watertight manner, without drained foundations.

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Appendix A

- Architectural Site Plan by Superkül Architects
- Architectural Statistics by Superkül Architects

Appendix B

Dye Test Investigation by Aquaflow Technologies

Appendix C

• City Engineering Records – City of Toronto Drawing No. D-110-1



1. Introduction & Background

a. Introduction

civilGo Engineering Inc. was retained by First Capital REIT on behalf of FCHT Holdings (Ontario) Corporation, to prepare a *Functional Servicing and Stormwater Management Report* for submission to the City of Toronto in support of an Official Plan Amendment and Zoning Bylaw Amendment Submission. The proposed Development for which the Submission is being made comprises two Buildings (A & B) within the subject lands, 2451-2495 Danforth Avenue, in Toronto, Ontario. The following report has accordingly been prepared to provide discussion and engineering analysis pertaining to the site servicing, grading and stormwater management for the proposed Development.

b. Subject Lands Description

The subject Site has municipal addresses 2451-2495 Danforth Avenue, Toronto, Ontario and postal code M4C 1L1. The Site's area is 0.77 Ha.

Presently, site comprises an existing one-storey commercial building ('Sobeys' food store), which occupies approximately the middle of the site, as well as adjacent ground-level asphalt parking lots. Refer to the *Existing Site Summary Figure* on the following page for the existing subject lands and adjacent infrastructure.

The site is bounded by Danforth Avenue to the north, Westlake Avenue to the west, detached houses to the south and existing commercial buildings to the east.

c. Proposed Development Description

It is proposed to demolish the existing one-storey commercial building ('Sobeys' food store) and adjacent ground-level asphalt parking lots. It is proposed to construct in their place a Development comprising two mixed-use Buildings (A & B), Building A comprising 29-storeys and Building B comprising 13-storeys, sharing a two-storey podium. The Development will comprise a two-level below-grade parking structure. A 0.0354 Ha P.O.P.S. (Privately-Owned Public Space) is proposed at the Site's eastern area.

Refer to the architectural Site Plan and Statistics by Superkül Architects in Appendix A for the proposed Development layout and specifics as referenced herein.

d. Report Scope and Terms of Reference

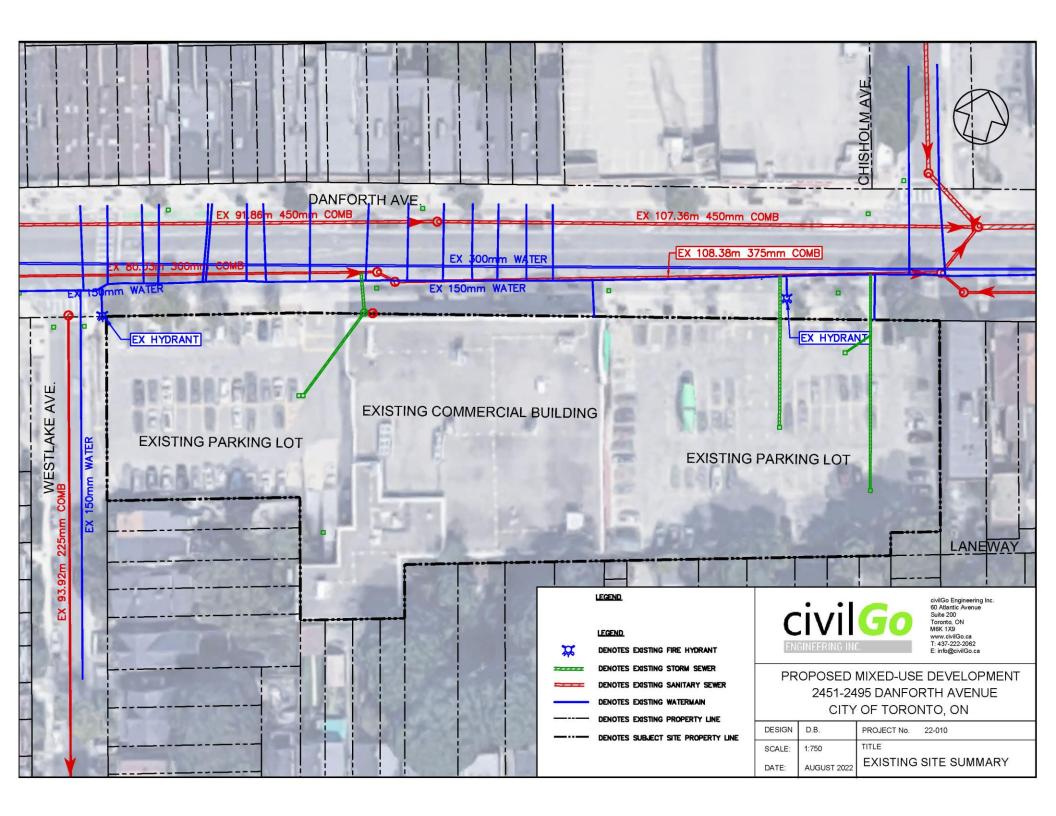
The scope of this Report is outlined below. The scope has been reviewed for compliance with the Terms of Reference for both Servicing Reports and Stormwater Management Reports as given in the City of Toronto's Website *Application Support Material: Terms of Reference*.

This report has, further, been prepared in accordance with the Terms of Reference given by the City of Toronto's *Design Criteria for Sewers and Watermains* (January 2021) as well as the City of Toronto's *Wet Weather Flow Management Guidelines* (November 2006).

The scope of this report, in general, comprises the following.



- Obtaining the most recent engineering records (Plan & Profile Drawings) as well as Digital Mapping Owners' Group (DMOG) drawing from the City of Toronto.
- Providing support to the Owner in undertaking a Subsurface Utility Engineering (SUE) Investigation to verify existing infrastructure.
- Reviewing all background information pertaining to existing water infrastructure, topography and related characteristics of the subject Lands.
- Evaluating the capacity of existing sewer and water mains to support the proposed Development of the subject Site.
- Provide stormwater management analysis and designs whereby the stormwater quality and quantity objectives given by the *Wet Weather Flow Management Guidelines* are addressed.





2. Watermains & Water Servicing

a. Water Servicing Criteria

The City of Toronto's site servicing policy typically requires all buildings/podiums/towers on a development to have separate respective water service connections to the street to which that component of the development fronts.

Design criteria pertaining to water servicing is given in Chapter 4 of the City of Toronto's *Design Criteria* for Sewers and Watermains (January 2021). The criteria that are observed herein is as follows.

- Per-capita average domestic water demand (multi-unit development): 190 L/cap/day
- Peaking Factors:
 - o Peak Hour: 2.50 x average day demand
 - Maximum Day: 1.30 x average day demand
- Fire Flow Demand: is given by the calculation as per the manual *Water Supply for Public Fire Protection* by the *Fire Underwriters' Survey* (1999).
- Minimum residual pressure in maximum demand scenario (Fire Flow Demand + Max. Day) is 140 kPa.

Combined domestic water and fire service connections are to be installed as per City-standard drawings, including T-1104.02-3.

b. Existing Water Mains

The existing Streets adjacent to the Site are presently understood to comprise the following watermains, adjacent to the Site's frontage.

- Danforth Avenue: 150mm watermain (within the south side of the R.O.W., south of the following 300mm watermain).
- Danforth Avenue: 300mm watermain (within the south side of the R.O.W., north of the above 150mm watermain).
- Westlake Avenue: 150mm watermain (within the east side of the R.O.W.).

There are two existing Fire Hydrants at the Site's frontage to Danforth Avenue, both connected to the 150mm watermain.

A hydrant flow test was conducted on the 150mm watermain and the test report is provided in the following pages. The testing was completed in accordance with NFPA 291: Recommended practice for Fire Flow Testing and Marking of Hydrants.



c. Proposed Water Servicing

It is proposed to service each of the two buildings (Building A and Building B) with separate respective domestic water service connections and fire service connections. Each of Building A and Building B is proposed to be serviced by a 200mm fire service connection with branch 150mm domestic water connection. Building A, which is greater-than 84m in height, additionally has a second 200mm fire service connection to the second watermain within Danforth Ave., in accordance with OBC 3.2.9.7. (4). The Commercial Component in the Podium, further, will have a separate respective 100mm-dia. domestic water connection. Refer to the Functional Servicing Plan for proposed domestic water and fire service connections.

d. Water Demand & Existing System Adequacy

The domestic water demand (using average-day, peak-hour and max.-day peaking factors) as well as fire flow demand, are summarized as follows.

It is evident, as per the below hydrant flow test reports, that the available flow at the minimum residual pressure of 140 kPa in the Danforth Ave. watermain is **3056** USGM, which is greater than the maximum demand, **2423.4** USGM (Fire Flow + Max. Day Demand), therefore the existing Danforth Ave. 150mm watermain is sufficient to service the proposed Development. No watermain infrastructure improvements are required.

Table 1 - Water Demand Summary

	Average Day Demand (ADD) (Pop'n* x 190 L/c/d)	Max. Day Demand (MDD) (1.3x ADD)	Peak Hour Demand (PHD) (2.5xADD)	Fire Flow Demand	Required Water Demand (Fire Flow Demand + MDD)
Prop Building A	1.45 L/s 22.98 USGM	1.88 L/s 29.80 USGM	3.62 L/s 57.38 USGM		
Prop Building B	0.93 L/s 14.74 USGM	1.20 L/s 19.02 USGM	2.32 L/s 36.77 USGM		
Prop Commercial Building	0.08 L/s 1.27 USGM	0.10 L/s 1.43 USGM	0.19 L/s 2.85 USGM		
Total	2.45 L/s 39.00 USGM	3.18 L/s 50.40 USGM	6.13 L/s 97.16 USGM	150.0 L/s 2373.0 USGM	153.2 L/s 2423.4 USGM

^{*}Population is given in Table 2, below

The fire flow demand calculation is provided on the following page. The following assumptions were made in the Fire Flow Demand calculation.

- The proposed buildings are of reinforced concrete construction.
- The proposed buildings will be sprinklered and the sprinklers will be fully monitored according to NFPA 13.
- The proposed buildings' contents (residences and retail) will be non-combustible in nature.
- Proposed building floor areas are as given in the architectural statistics in Appendix A



Domestic Water Demand Flow Calculation Sheet

Project: 2451-2495 Danforth Avenue, Toronto, ON - Proposed Mixed-use Development

Project No.: 22-010

Date: Oct 2024 Rev. Sept 2025

By: MF



	Proposed Residential Water Flows					Prop	Prop. Non-Residential Water Flows			Total Flows			
Development Component	1 BR + Studio Unit	2BR Unit	3BR Unit	4BR Unit	Total Residential Population	Instit'l Floor Area GFA	Commercial/ Retail Floor Area GFA	Non-Residential Population	Total Proposed Population	Average Day Demand (ADD)	Max. Day Demand (MDD) (1.3ADD)	Peak Hour Demand (PHD) (2.5ADD)	
	(Units)	(Units)	(Units)	(Units)	(Persons)	(m²)	(m²)	(Persons)		(L/s)	(L/s)	(L/s)	
Prop Apt Bldg A	248	95	36	0	658		0.0	0.0	658	1.45	1.88	3.62	
Prop Apt Bldg B	159	56	25	1	421		0.0	0.0	421	0.93	1.20	2.32	
Prop Comm'l	0	0	0	0	0		3219.5	35.4	35	0.08	0.10	0.19	

Reference Sanitary Flows as per Design Criteria for Sewers and Watermains (City of Toronto, January 2021)

Residential Unit Population:

1BR = 1.4 person/unit

2BR = 2.1 person/unit

3BR = 3.1 person/unit

4BR = 3.7 person/unit

Non-Residential Unit Population:

Office = 3.3 person/100m² GFA

Commercial/Retail = 1.1 person/100m² GFA

Institutional = GFA(m2) x 1 bed/30m2 x 1 person/bed

Unit Water Demand = 190 L/cap/day



Fire Flow Demand Calculation

as per Water Supply for Public Fire Protection, 2020 (Fire Underwriters' Survey)

Project:	2451-2945 Danforth Avenue, Toronto, ON
Project No.:	22-010
Date:	Rev Sept. 2025

Fire Flow is given by the following calculation:

RFF =	220C ₃	$\int A$

Where:

= the Required Fire Flow in litres per minutes (LPM)
= the Construction Coefficient is related to the type of construction of the building
= the Total Effective Floor Area (effective building area) in square metres of the building

Step A:	Type of Construction Factor, 'C' =	0.6		Step B:	Building A	rea, 'A' =
	Type V - Wood Frame Construction	1.5			1	3987.9 m²
	Type IV-A - Mass Timber Construction	0.8			2	1479 m²
	Type IV-B - Mass Timber Construction	0.9			3	2700.8 m²
	Type IV-C - Mass Timber Construction	1.0	Are Vertical Openings &		4	2701.8 m²
	Type IV-D - Mass Timber Construction	1.5	Exterior Vertical Connections		5	2650.1 m ²
	Type III - Ordinary Construction:	1.0	Adequately Protected?:	_	6	2650.1 m ²
	Type II - Non-Combustible Construction:	0.8	Yes/No: Yes		7	2650.1 m ²
	Type I - Fire Resistive Construction:	0.6			8	2650.1 m²
					9	2266.1 m²
Step C:	$RFF = 220C\sqrt{A} = 16558 \text{ L/Min}$				10	2266.1 m²
	RFF = 17000 L/Min (Rou	nded)			'A'=	15734.5 m ²
	RFF = 4491 USGPM					
	·					

Step D:	Occupancy Hazard Reduction =	-15 %		
				Where % Reduction =
	F reduction = -15% x	17000 L/min =	-2550 L/min	Non-Combustible -25%
	Therefore, F = 14450 L/min			Limited Combusible -15%
				Combustible 0%
				Free Burning +15%
				Rapid Burning +25%

Step E: Complete Automatic Sprinkler Protection Deduction = 50 %, Where: Credit for adequately designed system conforming to NFPA 13: 30% Reduction Credit for Standard Water Supply: 10% Reduction Credit for Fully Supervised System: 10% Reduction F reduction = 50% 14450 L/min = 7225 L/min

		Exposure Distance:	Exposure Length (m)	Exp Height (Storey's)	Length-Ht- Factor*	Exposure Charge**:
	Exposure to North	27.1 m	151.3	2	302.6	5%
	Exposure to East	11.1 m	31.1	2	62.2	3%
	Exposure to South	14.8 m	151.3	2.5	378.25	5%
	Exposure to West	20.4 m	22.9	2	45.8	2%
	Total Ex	posure Charge	=			15%
	* Length-Ht-Factor = L	ength of Expose	d Bldg Face(m)	x Height(Sto	reys)	
	** Exposure Charge as	per Table 6 of F	US Manual			
	*** 2-Hour Fire Wall to	o be provided, tl	herefore no Exp	oosure Charge	e is added (FL	JS page 23)
F inc	rease = 15% x	14450 L/min		L/min		- 1 - 3 /

Step G:	F = F (Step D) minus F reduction (Step E) plus F increase (Step F) F = 14450 L/min minus 7225 L/min plus 2168 L/min F = 9393 L/min	
	F = 9000 L/min (Rounded to nearest 1,000 L/min) F = 150.0 L/s F = 2378 USGPM	





GENERAL INFORMATION:

PROJECT ID PROJECT NAME BUILDING ADDRESS 2451 Danforth Ave Daniel Bancroft 2451 Danforth Ave Tornto, Ontario TESTED B' AA

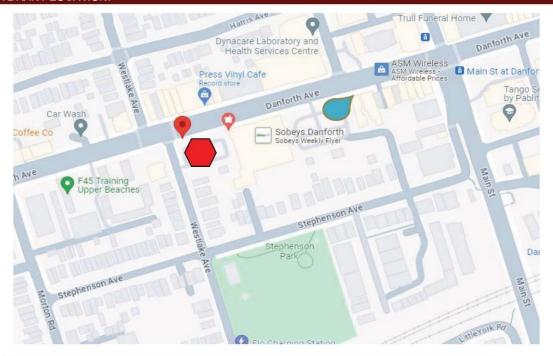
DATE 2024-04-24 TIME 12:30:00 PM

WATER MAIN INFORMATION:

MAIN SIZE / MATERIAL CONFIGURATION

Looped

HYDRANT LOCATION:



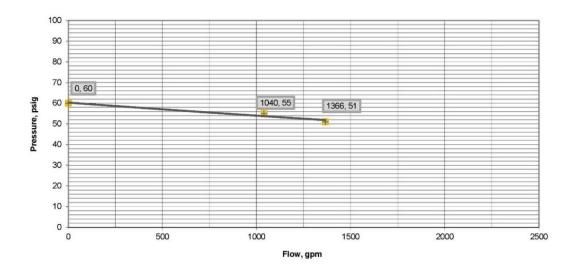


LEGEND: STATIC HYDRANT



FINAL RESULTS:

Test #	Number	Orifice	Pitot	Equivlnt	Total	Projected	Gau	Discharge
	of	Size (in)	Reading	Flow	Flow	flow at	ge	Coefint
	Outlets		(psig)	(usgpm)	(usgpm)	20psi	Pres	
				,		(usgpm)	sure	
Static	N/A	N/A	N/A	N/A	0	N/A	60	N/A
1	1	2.47	51	1040	1040	3196	55	0.8
2	2	2.47	22	683	1366	3056	51	0.8



superkul.ca

superk"

MEMO

Subject: FUS Calculations Project Name: 2451-2495 Danforth

Date: October 24, 2024 Project Number: 2216

For the purposes of an Official Plan and Zoning By-law Amendment, to meet the fire flow test requirements the proposed buildings are expected to be fully sprinklered and assume the following:

- All buildings shall be constructed as Type I Fire Resistive Construction with all structural elements, walls, arches, floors, and roofs constructed with a minimum 2-hour fire resistance rating, and all materials used in the construction of the structural elements, walls, arches, floors, and roofs are constructed with non-combustible materials;
- The major occupancy of the development will be Group C;
- The building will conform to Part 3 of the OBC;
- Automatic sprinkler protection throughout the building conforming to the NFPA
 13 Standards for Installation of Sprinkler Systems.

Construction types are subject to change as the project is further developed.

Sincerely,

Andre D'Elia, OAA, FRAIC

Partner | Superkül





200 KING STREET WEST, SUITE 310 TORONTO, ON CANADA M5H 3T4 TMP@TMPTORONTO.COM P: 416-499-8000

tmptoronto.com

March 11, 2025

Attention: Chief Engineer and Executive Director, Engineering and Construction Services c/o Manager, Development Engineering

cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave. Toronto ON M9N 1S9

RE: 2451-2494 DANFORTH AVENUE OUR FILE NO. 24-1084-000

Dear Sir or Madam,

This letter is to confirm that the building noted above will be provided with a fully supervised sprinkler system designed in accordance with NFPA 13 and other relevant standards.

The proposed development will be fed with a standard water supply. Based on our experience and height of the buildings, a fire pump would be required for a building of this height in any fire flow test scenario, and we see no concerns with selecting a fire pump to achieve the required flows and pressures required for this building.

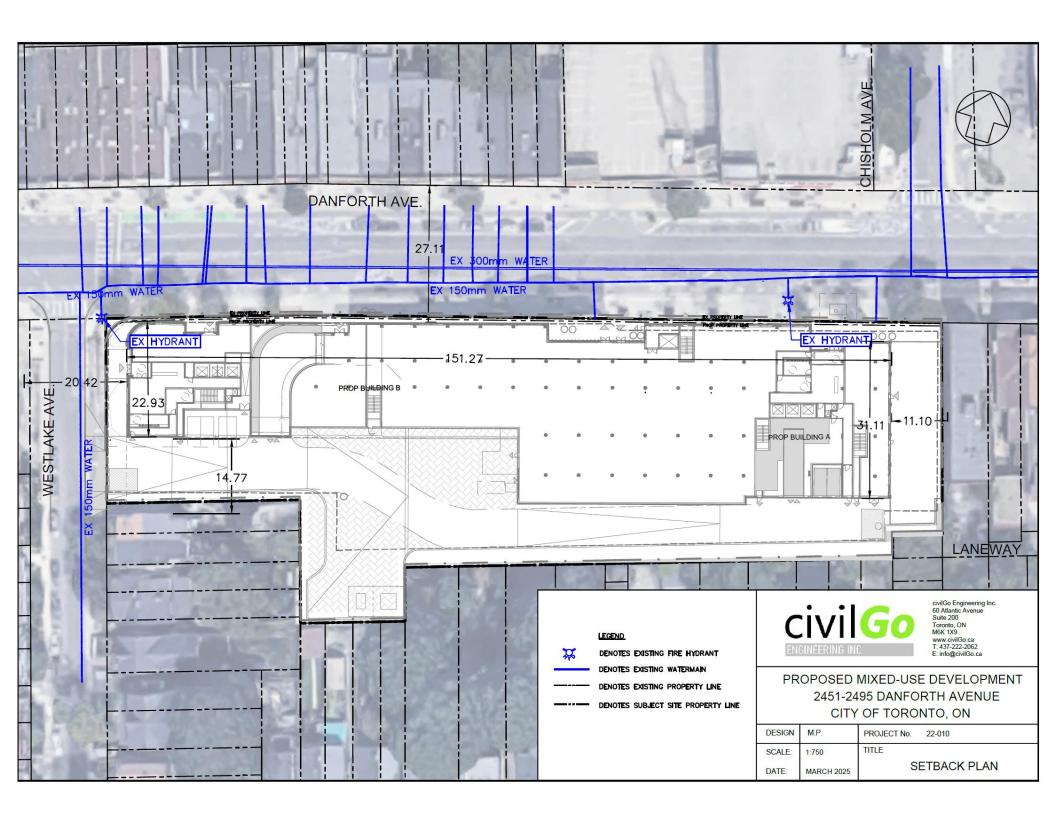
We trust this addresses your concerns and do not hesitate to contact us if there is any further questions.

Yours very truly,

THE MITCHELL PARTNERSHIP INC.

Steve Orchard, P.Eng

Partner





3. Sanitary & Combined Sewers

a. Criteria & Terms of Reference

The City of Toronto's site servicing policy typically requires all buildings/podiums/towers on a development to have separate respective sanitary service connections to a municipal sewer in the street to which that component of the development fronts.

Sanitary servicing criteria is given in Chapter 2 of the City of Toronto's *Design Criteria for Sewers and Watermains* manual (January 2021). The following sanitary sewage flow-calculation criteria are applied in this report as given in the City's manual.

- Per-capita average sanitary sewage flow: 450 L/cap/day (for the design of new sewers & sewer connections)
- Per-capita average sanitary sewage flow, for the analysis of existing sewer systems:
 - Residential population: 240 L/cap/day
 - Non-Residential population: 250 L/cap/day
- Unit population (Residential) Bachelor & 1-B Units = 1.4 person/unit; 2-B Units = 2.1 person/unit; 3-B Units = 3.1 person/unit; 4-B Units = 3.7 person/unit; single-family = 3.5 person/unit; townhouse = 2.7person/unit.
- Unit population (Non-residential) Office = 3.3 person/100m² GFA; Commercial/Retail = 1.1 person/100m² GFA
- Inflow & Infiltration Flows (I&I) Originating from Subject Site = 0.26 L/s/Ha
- Peaking Factor given by Harman Equation

Where a development project is in an area serviced by Combined sewers (rather than separated sanitary sewers) – design criteria is given by the foregoing City manual and the Province of Ontario's *Procedure F-5-5 – Determination of Treatment Requirements for Municipal and Private Combined Sewers*. These criteria generally require development projects in such sewer sheds not to compound or increase the risk of Combined Sewer Overflow events by a proposed development.

b. Existing Sanitary & Combined Sewers

There are no separated sanitary sewer mains in the area of the subject site.

The existing Streets adjacent to the Site are presently understood to comprise the following combined sewers, adjacent to the Site's frontage. Refer to the Functional Servicing Plan.

- Within Danforth Avenue, beneath the south side of the street, there is a 300mm-diameter (increasing to 375mm-diameter) vitrified pipe combined sewer flowing easterly. This sewer outlets into a 700mm x 1050mm combined sewer, discussed below.
- Within Danforth Avenue, beneath the north side of the street, there is a 450mm-diameter vitrified pipe combined sewer flowing easterly. This sewer outlets into the same 700mm x 1050mm combined sewer, discussed below.
- Within Danforth Avenue, near the site's northeast corner, a 700mm x 1050mm brick combined sewer commences and flows easterly. Both of the foregoing sewer's discharge into this sewer.



• Within Westlake Avenue, adjacent to the site's west frontage, there is a 225mm-diameter combined sewer which flows southerly.

c. Basement Flooding Environmental Assessment (BFEA) – Combined Sewers Discussion

The City of Toronto has undertaken a *Basement Flooding Protection Program* to help reduce the risk of flooding by making improvements to the sewer system and overland drainage routes. The intent and scope of the program is to undertake analysis of the City's drainage systems (municipal storm, sanitary and combined sewers) in order to identify system deficiencies and thereby recommend infrastructure improvements.

The program divides the City into 67 different Study Areas for which Basement Flooding Environmental Assessments (EA) have been or will be individually undertaken. Many of the study areas have been completed presently as given in the City of Toronto's *Basement Flooding Protection Program Map*.

The City's criteria typically requires Functional Servicing Reports prepared in support of Development applications to review and address the conclusions and recommendations of the Basement Flooding EA, where complete, with respect to the proposed Development's drainage.

The subject proposed Development of 2451-2495 Danforth Avenue falls within BFEA Study Area 32, which is complete. The completed EA Report is titled *Investigation of Chronic Basement Flooding* (Eastern Beaches Area 32) by Genivar and dated May 2012.

The following comments are provided with respect to the conclusions of the EA Report, pertaining to combined sewers and sanitary drainage. Refer to Section 4., below, for comments pertaining to storm sewers.

- The EA Report identifies the performance of the combined sewer system in the various design storm events. The Report shows that the combined sewer system presently operates acceptably and does not recommend improvements to the combined sewers adjacent to the site.
- Figure 6.6.a., 2-Year Design Storm Combined and Sanitary Sewer System, in the EA Report shows that the combined sewer segments adjacent to the site's frontages are flowing with no surcharge in the pipes (with one exception) (in the 2-year storm) and that the freeboard (or depth from grade to surcharge water elevation) is greater than 1.8m below-grade in all Combined Sewer Maintenance Holes adjacent to the Site's frontage.
- Figure 9.1, *Preferred Solutions, Cluster 1*, in the EA Report does not recommend any improvements within the combined or storm sewers near the subject Site.

Given the above discussion, no sanitary/combined sewer infrastructure improvements are required as part of this development on account of the Basement Flooding EA's recommendations.



d. Proposed Sanitary Servicing & Sanitary Flows

It is proposed to service each of the two proposed Buildings (Building A and Building B) and the Commercial Podium with a separate respective 200mm sanitary sewer connection to the existing combined sewer within Danforth Avenue. Refer to the Functional Servicing Plan for the proposed services.

The proposed Development's sanitary flows are summarized as follows. Detailed sanitary flow calculations are provided on the following page.

Table 2 - Proposed Sanitary Flows Summary

	Total Proposed Population	Residential Sanitary Flows	Non-Residential Sanitary Flows	Inflow & Infiltration (I&I) Flows	Total Proposed Sanitary Flows
Prop Building A	658	13.4 L/s	-	0.061 Ha	13.47 L/s
Prop Building B	421	8.80 L/s	-	0.124 Ha	8.84 L/s
Prop Commercial	35	-	0.8 L/s	0.585 Ha	0.95 L/s
Total	1117	22.3 L/s	0.8 L/s	0.770 Ha	23.21 L/s

The proposed sanitary flows as outlined above will discharge into municipal sewers by three 200mm @ 2.0% sanitary service connections. Each of the Buildings (A & B) and the Podium has separate proposed sanitary connections to the existing combined sewer within Danforth Avenue. Each of the three sanitary sewer connections has a capacity of 46 L/s, which is greater than the sanitary flows from each component of the development as above, therefore the proposed sanitary sewer connections are adequately designed.



Proposed Sanitary Flows Calculation Sheet (Using 450 L/c/d)

Project: 2451-2495 Danforth Avenue, Toronto, ON - Proposed Mixed-Use Develeopment

Project No.:

Date: Oct 2024 Rev. Sept 2025

MP By:



			Propos	ed Reside	ential Sanitary Fl	lows			Proposed No	on-Residential	Sanitary Flo	ws	Prop. Id	&I Flows & G	roundwater	
Development Component	1 BR Unit + Studio	2BR Unit	3BR Unit	4BR Unit	Residential Population	Peaking Factor	Peak Residential Sanitary Flow	Inst'l Floor Area GFA	Commercial/ Retail Floor Area GFA	Non- Residential Population	Peaking Factor	Peak Non- Residential Sanitary Flow	Inflow & Infiltration Area	Site I&I Flow	Groundwater Flows	Peak Sanitary Flows
	(Units)	(Units)	(Units)	(Units)	(Persons)	М	(L/s)	(m²)	(m²)	(Persons)	М	(L/s)	(Ha)	(L/s)	(L/s)	(L/s)
Prop Bldg A	248	95	36	0	658	3.9	13.4						0.061	0.02	0.0	13.42
Prop Bldg B	159	56	25	1	421	4.0	8.80						0.124	0.03	0.0	8.84
Total of Prop Bldg (A+B)	407	151	61	1	1080	7.9	22.2	0.0	0.0	0.0	4.5	0.0	0.185	0.05	0.0	22.26
Prop Comm'l	0	0	0	0	0	4.5	0.0	0.0	3219.5	35.4	4.3	0.8	0.585	0.15	0.0	0.95
				То	tal (Prop Bldg A	+ Prop Blo	dg B + Prop Co	mm'l)					0.770			23.21

Reference Sanitary Flows as per Design Criteria for Sewers and Watermains (City of Toronto, January 2021)

Residential Unit Population:

Non-Residential Unit Population: 1BR = 1.4 person/unit Office = 3.3 person/100m² GFA

2BR = 2.1 person/unit Commercial/Retail = 1.1 person/100m² GFA Institutional = GFA(m2) x 1 bed/30m2 x 1 person/bed 3BR = 3.1 person/unit

4BR = 3.7 person/unit

Unit I&I Flow = 0.26 L/s/Ha

Unit Sanitary Flow = 450 L/c/d (for design of new sewers)

Peaking Factor, $M = 1 + 14/(4 + P/1000)^2$

Peak Sanitary Flow, Q(D) (L/s) = P * Q * M / 86,400



e. Receiving Combined Sewer Capacity & F-5-5 Compliance

It is demonstrated as follows that the existing municipal combined sewers, to which it is proposed to connect the development, will be operating under the reduced conditions pre-development as in post-development conditions. There will therefore be no adverse impacts on the capacity of the municipal combined sewer by the proposed development. The development is, further, in compliance with the Province of Ontario's *Procedure F-5-5*.

The pre-development and post-development flows which drain to the combined sewer are summarized in the following table.

Existing sewer outlets and sewer connections were identified in a Dye Test and CCTV Investigation, which is provided here in Appendix B. The dye test investigation informed the *Pre-Development Drainage Plan*, which is provided on the following page.

It is shown as follows that there is a reduction of 60.1 L/s in flows draining to the combined sewers from the Pre-Development Scenario to the Post-Development Scenario. No combined sewer infrastructure improvements are therefore required to accommodate the proposed development.

Table 3 - Comparison of Flows Draining into Combined Sewer, Pre-Development to Post-Development

	Sanitary Flow (DWF) (@ 240 L/c/d)*	Storm Flow (WWF) (2-Year Storm)**	Groundwater Flows	Total Flows Draining into Combined Sewer
Pre-Development Scenario	1.21L/s (Existing Building)	Ex-A + Ex-B + Ex-C + Ex-D+ Ex-E = 2.78CiA =2.78*0.88*88.2*0.77 =166.14 L/s	-	167.35 L/s
Post- Development Scenario	23.21 L/s*	84 L/s**	-	107.21 L/s
Change from Pre- Development to Post- Development	+22.00 L/s	-82.14L/s	-	-60.14 L/s

^{*}As per Table 2, above.

^{**}Storm flows are calculated using the Rational Method formula ($Q_{2-Y}=2.78CiA$), where the catchment area is given on the Pre-Development Drainage Plan, in reference to the Dye Test Investigation (Appendix B)



Existing Sanitary Flows Calculation Sheet (Using 240 L/c/d & 250 L/c/d)

Project: 2451-2495 Danforth Avenue, Toronto, ON - Proposed Mixed-Use Develeopment

 Project No.:
 22-010

 Date:
 Oct 2024

 By:
 MP



		Residential Sanitary Flows				Non-Residential Sanitary Flows				I&I Flows & Groundwater					
Development Component	1 BR Unit + Studio	2BR Unit		Residential Population	_	Peak Residential Sanitary Flow	Ind'l Floor Area GFA	Commercial / Retail Floor Area GFA	Non- Residential Population	Peaking Factor	Peak Non- Residential Sanitary Flow	Inflow & Infiltration Area	Segment I&I Flow	Groundwater Flows	Peak Sanitary Flows
	(Units)	(Units)	(Units)	(Persons)	М	(L/s)	(m²)	(m²)	(Persons)	M	(L/s)	(Ha)	(L/s)	(L/s)	(L/s)
Ex. Bldg	0	0	0	0	4.5	0.0	0.0	2483.5	82.0	4.3	1.01	0.772	0.20	0.0	1.21

Reference Sanitary Flows as per Design Criteria for Sewers and Watermains (City of Toronto, January 2021)

Residential Unit Population: Non-Residential Unit Population:

1BR = 1.4 person/unit Office = 3.3 person/100m² GFA

2BR = 2.1 person/unit Commercial/Retail = 1.1 person/100m² GFA

3BR = 3.1 person/unit Institutional = GFA(m2) x 1 bed/30m2 x 1 person/bed

DTH = 3.5 person/unit Industrial = GFA (m²) x $0.0272 \text{ persons/m}^2$

Unit I&I Flow = 0.26 L/s/Ha

Unit Non-Residential Sanitary Flow = 250 L/c/d (for analysis of existing sewers)
Unit Residential Sanitary Flow = 240 L/c/d (for analysis of existing sewers)

Peaking Factor, $M = 1 + 14/(4 + P/1000)^2$

Peak Sanitary Flow, Q(D)(L/s) = P * Q * M / 86,400



4. Storm Drainage & Stormwater Management

a. Criteria & Terms of Reference

The City of Toronto's site servicing policy typically requires all buildings/podiums/towers on a development to have separate respective storm service connections to a municipal sewer in the street to which that component of the development fronts. Alternatively, it is typically permissible to drain more than one building on a single Site into a common stormwater management facility, provided that sampling facilities (sampling ports, etc.) are provided for each prospective building.

Storm servicing criteria is given in Chapter 3 of the City of Toronto's *Design Criteria for Sewers and Watermains* manual (January 2021).

Stormwater Management criteria is given in the City of Toronto's *Wet Weather Flow Management Guidelines* (WWFMG) manual (2006). Table 7 provides stormwater management criteria therein. Table 7 states that the allowable release rate shall be given by the pre-development 2-year storm flow rate, utilizing the lesser of the actual pre-development runoff coefficient, or a runoff coefficient of 0.5. Table 7 therein allows for the use of the Rational Method for calculation of allowable flows, where site area is less than 5.0 Ha.

The following IDF curves represent the City of Toronto's storms which will be analyzed herein, as per the above manuals.

$$I_{2-Year} = 21.8 * T^{-0.78}$$

$$I_{100-Year} = 59.7 * T^{-0.80}$$

Where:

I = intensity (mm/hr)
T = Time of Concentration in hours

The *Toronto Green Standard* (TGS) provides criteria for stormwater retention/water balance. TGS Version 4, Tier 1, *WQ 1.1 Water Balance, Quality and Quantity* requires the proponent to address the following criteria.

- Water Balance: Retain a minimum of 50% of average annual rainfall volume (or equivalent 5mm each rainfall event).
- Water Quality: Provide long-term average removal of 80% Total Suspended Solids (TSS).
- Water Quantity: Peak flow control in accordance with WWFMG, above.



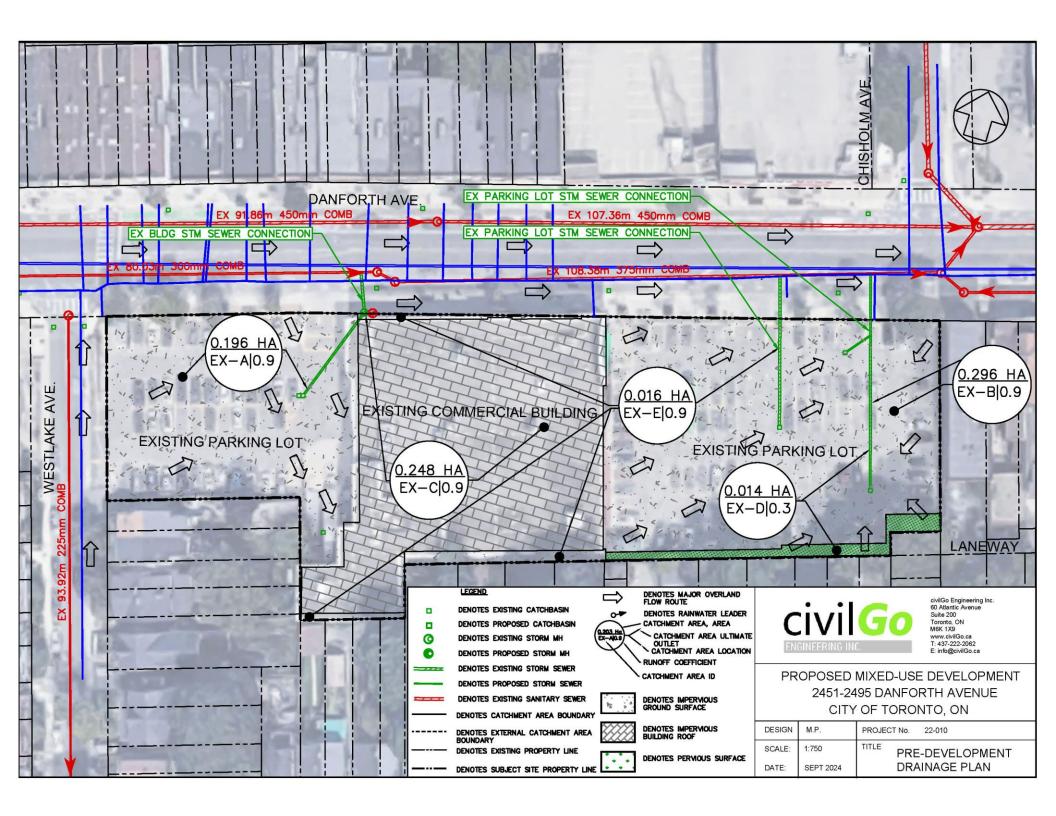
b. Existing Storm Sewers & Drainage

There are no existing storm sewers within the municipal R.O.W. to which the site fronts. The adjacent streets (Danforth Avenue and Westlake Avenue) presently drain by catch basins which are connected to the combined sewers therein – discussed in Section 4.0 a., above.

The existing site presently drains by a total of three existing storm sewer connections which are connected to the Danforth Avenue combined sewers. Refer to the *Pre-Development Storm Drainage Plan* on the following page for pre-development (existing) storm drainage patterns and outlets.

The Site's pre-development drainage patterns are described as follows:

- Catchment Ex-A: is a 0196 Ha catchment area that comprises the impervious surfaces such as
 the existing parking lot to the west of the existing commercial building. The existing parking lot
 drain is connected by the existing building storm sewer connection; the existing storm sewer is
 connected into the Danforth Avenue combined sewer.
- Catchment Ex-B: is a 0.296 Ha catchment area that comprises the impervious surfaces such as
 the existing parking lot to the east of the existing commercial building. The existing parking lot
 drain is connected by the existing parking lot storm sewer connection; the existing storm sewer
 is connected into the Danforth Avenue combined sewer.
- Catchment Ex-C: is a 0.248 Ha catchment area that comprises the impervious surfaces such as the roof of the existing commercial building on the Site. The roof is connected by roof drains, and into the Danforth Avenue combined sewer.
- Catchment Ex-D: is a 0.014 Ha catchment area that comprises the existing pervious softscape surfaces within the Site, which drain by overland flow towards the east side existing parking lot storm sewer connections into the Danforth Avenue combined sewer.
- Catchment Ex-E: is a 0.016 Ha catchment area that comprises the impervious surfaces such as the front and the back existing ground surface of the existing commercial building within the Site, which drain by overland flow towards the east side existing parking lot storm sewer connections into the Danforth Avenue combined sewer.





c. Basement Flooding Environmental Assessment (BFEA) – Storm Sewers Discussion

A Basement Flooding Environmental Assessment (BFEA) has been undertaken for this area, as discussed in Section 3. c., above. Refer to Section 3. c. for overall discussion pertaining to the context for the EA and for discussion pertaining to sanitary and combined sewers.

The following comments are provided with respect to the conclusions of the EA Report, pertaining to storm sewers and storm drainage.

- There are no separated storm sewers within the Streets adjacent to the site, therefore the EA's conclusions regarding storm sewer performance do not apply to this development.
- The EA Report identifies the performance of the combined sewer system in the various design storm events. The Report shows that the combined sewer system presently operates acceptably and does not recommend improvements to the combined sewers adjacent to the site.
- Figure 6.6.a., 2-Year Design Storm Combined and Sanitary Sewer System, in the EA Report shows that the combined sewer segments adjacent to the site's frontages are flowing with no surcharge in the pipes (with one exception) (in the 2-year storm) and that the freeboard (or depth from grade to surcharge water elevation) is greater than 1.8m below-grade in all Combined Sewer Maintenance Holes adjacent to the Site's frontage.
- Figure 6.6.d., 100-Year Design Storm Combined and Sanitary Sewer System, in the EA Report
 shows that the combined sewer segments adjacent to the site's frontages are surcharged (in the
 100-year storm). This figure shows that the freeboard is greater than 1.80m below-grade in the
 combined sewers on the north side of Danforth Ave. and both sides of the street near the
 northeast corner, but that the HGL is less than 1.80m below-grade in the MH's at the NW
- Figure 9.1, *Preferred Solutions, Cluster 1*, in the EA Report does not recommend any improvements within the combined or storm sewers near the subject Site.

Given the above discussion, no sanitary/combined sewer infrastructure improvements are required as part of this development on account of the Basement Flooding EA's recommendations.



d. Allowable Storm Release Rate

Stormwater quantity/detention controls are required to satisfy the criteria given in Table 7 of the WWFMG, as outlined above. The allowable release rate to municipal infrastructure is calculated as follows.

It is proposed to drain storm flows from the proposed Development to the Danforth Avenue storm sewer.

The allowable release rate is calculated using the Rational Method formula, as follows. It is calculated based on the areas which drained to Danforth Ave. in the existing condition (Catchment Areas Ex-A, Ex-B, Ex-C, Ex-D, and Ex-E — refer to the *Pre-Development Drainage Plan*) minus the areas that will flow uncontrolled into the Danforth Ave. combined sewer in the post-development condition (Catchment Area H — refer to the *Post-Development Drainage Plan*). The allowable discharge flow rate is determined as follows to be 42 L/s for each of Building A and B (or 84 L/s for the Development as a whole).

Table 4 - Allowable Release Rate

Discharge Outlet	Site Area (A) (Ha)	Runoff Coefficient* (C _{Pre-Dev}) (unitless)	2-Year Storm Rainfall Intensity (I) (mm/hr)	Allowable Discharge Flow Rate (=2.78CIA)		
Danforth Ave. 375mm dia. Combined Sewer	Ex-A + Ex-B + Ex-C + Ex-D+ Ex-E = 0.77 Ha	0.50	88.2 (2-year storm)	94 L/s		
Deduction from Uncontrolled Runoff to Danforth Ave. 375mm dia. Combined Sewer (Catchment – H)	H = 0.017 Ha	0.90	250.3 (100-year storm)	10 L/s		
	Remaining Allowable Release Rate = 94 L/s – 10 L/s =					
	42 L/s					

 $^{* \ \}textit{C}_{\textit{Pre-Dev}} = \frac{\textit{C*A}}{\textit{A}} = \frac{(0.9*0.196) + (0.9*0.296) + (0.9*0.248) + (0.3*0.014) + (0.9*0.016)}{0.196 + 0.296 + 0.248 + 0.014 + 0.016} = 0.88 \ ; \ \text{greater-than 0.50,} \\ \text{therefore C}_{\textit{Pre-Dev}} \ \text{taken-as} = 0.5$



e. Proposed Storm Drainage, Servicing & Stormwater Management

It is proposed to service the proposed development with 200mm @ 2.00% storm sewer connections, for each of Building A and B, to the existing 375mm-dia. combined sewer within Danforth Avenue. Refer to the Functional Servicing Plan.

The Proposed Development's storm drainage conveyances are described as follows.

- Rainwater falling on the proposed building's roofs and ground-level surfaces will drain uncontrolled into storm area drains & roof drains (to be designed by the mechanical engineer). The storm roof drains will drain uncontrolled by mechanical storm drainage piping, into the site's proposed below-grade 100-year storm water detention tank(s). The tanks will be of cast-in-place concrete construction and constructed in the below-grade basement levels, adjacent-to the Danforth Avenue. Refer to the Functional Servicing Plan for the location of the tanks.
 - Aside: storm events up-to 5mm-depth will drain-into and fill the stormwater retention tank, which will spill into the stormwater detention tank. Refer to Section 4. f. for discussion.
- Note: detailed design of the orifice device and stormwater management tank are to be undertaken at the SPA-stage.

The Site's post-development storm catchment areas are outlined on the *Post-Development Drainage Plan*, below, and summarized in Table 5.

Table 5 - Post-Development Catchment Area Parameters

Catchment Area ID	Catchment Area (Ha)	Hydrology/Volume Method	Runoff Coefficient, C
Building A			
Catchment B (Pervious Surfaces – Green roof)	0.0610	Modified Rational Method	0.30
Catchment C (Pervious Softscape Surfaces)	0.031	Modified Rational Method	0.30
Catchment D (Impervious Regular Roof)	0.1839	Modified Rational Method	0.90
Catchment G (Impervious Ground-Level (Surfaces)	0.016	Modified Rational Method	0.90



Building B Catchment A (Pervious Modified Rational 0.0074 0.30 Softscape Surfaces) Method **Modified Rational** Catchment E (Impervious 0.0543 0.90 Method Regular Roof) **Catchment F (Impervious Modified Rational** 0.002 0.90 Surfaces) Method Catchment H (Impervious Rational Method 0.017 0.90 Surfaces) (Uncontrolled) **Modified Rational Catchment I (Pervious** 0.124 0.30 Surfaces – Green roof) Method **Modified Rational** Catchment J (Impervious 0.264 0.90 **Driveway Surfaces)** Method Total 0.76 6.6

The required volume of stormwater detention was determined utilizing the *Modified Rational Method*. The required volume of stormwater storage is summarized in Table 6, as follows. Modified Rationale Method calculation sheets for the 1-in-2-year storm and 1-in-100-year storm are provided on the following pages, below.

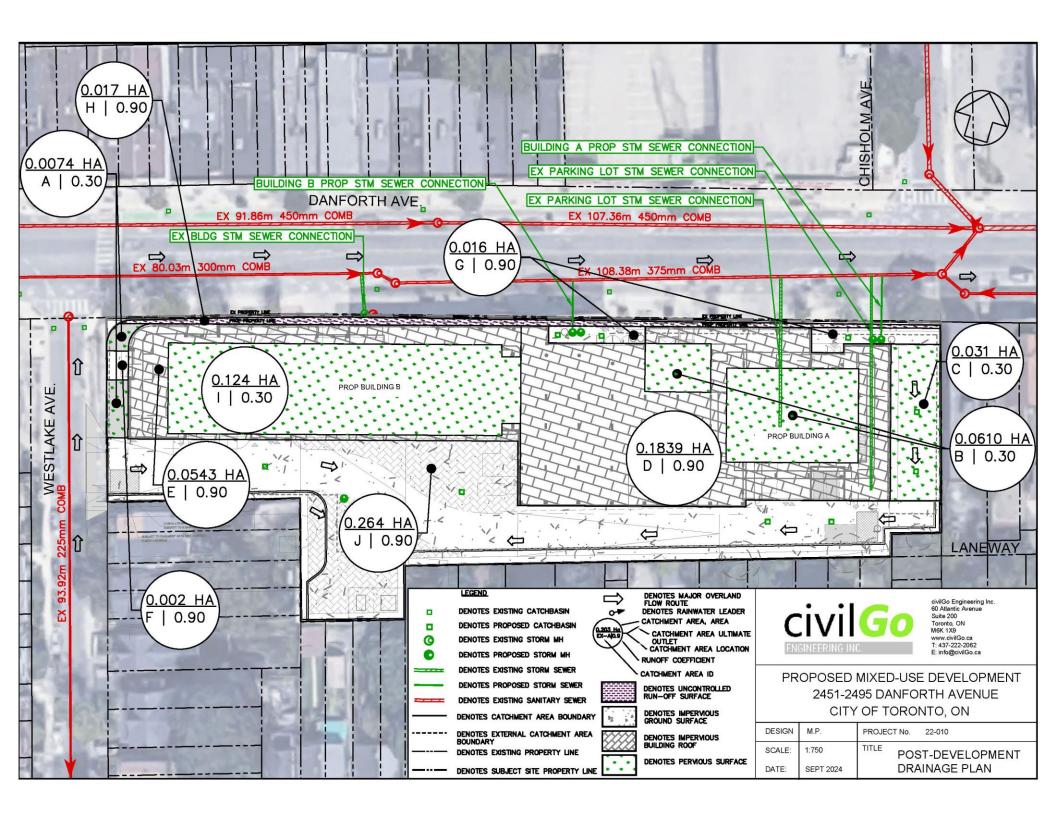
It is evident in Table 6 that the proposed controlled release rate in the 100-year storm (42 L/s), is no-more-than the allowable release rate (42 L/s) for each of Building A and B, therefore the City's allowable release rate criteria is addressed. Further, the required volume of stormwater storage in Building A in a 1-in-100-year storm (61.44m³) will be accommodated in the proposed 150m³ below-grade stormwater detention tank, and the required volume of stormwater storage in Building B in a 1-in-100-year storm (118.29m³) will be accommodated in the proposed 150m³ below-grade stormwater detention tank. Therefore, the stormwater detention criteria with respect to the 1-in-100-year storm is addressed. Refer to the Functional Servicing Plan (Drawing No. CV-101) for the design of the stormwater detention tank whereby this criterion is addressed.



Table 6 - Stormwater Quantity Control (Detention) Results Summary

Storm Event	Allowable Release Rate (Qall)	Max Controlled Flows (Qc)	Uncontrolled Flows (Quc)	Total Release Rate from Site (Q _T =Q _C +Q _{UC})	Required Detention Storage Volume	Provided Detention Storage Volume
Building A						
2-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	5.32 m³ (below*)	150 m ³
100-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	61.44 m³ (below*)	150 m ³
Building B						
2-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	25.25 m³ (below*)	150 m ³
100-Year Storm	42 L/s (Table 4)	42 L/s	N/A	42 L/s	118.29 m³ <i>(below*)</i>	150 m ³

^{*}Refer to Modified Rational Method – Stormwater Storage Volume Calculation Sheets, below







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Modified Rational Method - Stormwater Storage Volume Calculation

100-Year Storm

Project Name:	Proposed Mixed-Use Develeopment - BLDG B
Project Address:	2451-2495 Danforth Avenue, Toronto, ON
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
By:	MP

Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42 L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42 L/s (Max outflow from Orifice)

Post-Development Catchment Area Parameters:

Catchment Areas:	A, E, F, H, I, J	See Post Development Catchment Plan
Cpost =	0.73	Post-Development Composite Runoff Coefficient (unitless)
Apost =	0.47	Site Area, Post-Development (Ha)
Tc =	10	Initial Time of Concentration (minutes)

Rainfall Intensity for Storm Even 100-Year

$$i = A/(T_d + B)^C$$

Where:	i =	rainfall intensity (mm/hr)			
	A =	59.7	City of Toronto 100-		
	B =	0	•		
	C =	0.8	Year Storm IDF		
	Td =	Tc +	storm duration		

Post-Development Runoff Flow Rate, QP

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

Required Storage Volume, SR

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qp	Sr	
(min)	(mm/hr)	(L/s)	(m3)	
10	250.3	238.7	118.01	
11	231.9	221.2	118.25	
12	216.3	206.3	118.29	>Max
13	202.9	193.5	118.17	
14	191.2	182.4	117.90	
15	181.0	172.6	117.51	
16	171.9	163.9	117.00	
17	163.7	156.1	116.40	
18	156.4	149.1	115.71	
19	149.8	142.8	114.95	
20	143.8	137.1	114.10	
21	138.3	131.8	113.20	
22	133.2	127.0	112.23	
23	128.6	122.6	111.21	
24	124.3	118.5	110.13	
25	120.3	114.7	109.01	
26	116.6	111.1	107.85	
27	113.1	107.8	106.64	
28	109.8	104.7	105.40	
29	106.8	101.8	104.12	
30	103.9	99.1	102.80	
31	101.3	96.5	101.45]
32	98.7	94.1	100.08	
33	96.3	91.8	98.67	1
34	94.0	89.7	97.24	
35	91.9	87.6	95.79	

Td	i	Qp	SR
(min)	(mm/hr)	(L/s)	(m3)
36	89.8	85.7	94.31
37	87.9	83.8	92.80
38	86.0	82.0	91.28
39	84.3	80.3	89.73
40	82.6	78.7	88.17
41	81.0	77.2	86.58
42	79.4	75.7	84.98
43	77.9	74.3	83.36
44	76.5	73.0	81.72
45	75.1	71.7	80.07
46	73.8	70.4	78.40
47	72.6	69.2	76.72
48	71.4	68.1	75.02
49	70.2	66.9	73.31
50	69.1	65.9	71.59
51	68.0	64.8	69.85
52	66.9	63.8	68.11
53	65.9	62.9	66.35
54	65.0	61.9	64.58
55	64.0	61.0	62.79
56	63.1	60.2	61.00
57	62.2	59.3	59.20
58	61.3	58.5	57.38
59	60.5	57.7	55.56
60	59.7	56.9	53.73
61	58.9	56.2	51.89





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Modified Rational Method - Stormwater Storage Volume Calculation

100-Year Storm

Project Name:	Proposed Mixed-Use Develeopment - BLDG A
Project Address:	2451-2495 Danforth Avenue, Toronto, ON
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
Ву:	MP

Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42	L/s (Max outflow from Orifice)

Post-Development	Catchment A	rea Parameters:	
Catchment Areas:	B, C, D, G	See Post Development C	atchment Plan
Cpost =	0.71	Post-Development Comp	osite Runoff Coefficient (unitless)
Apost =	0.29	Site Area, Post-Developm	nent (Ha)
T _c =	10	Initial Time of Concentrat	tion (minutes)

Rai	infall Intensity	for Storm Even	100-Year	

$$i = A/(T_d + B)^c$$

		1

Post-Development Runoff Flow Rate, QP

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

Where:	i =	rainfall intensity (mm/hr)	
	A =	59.7	City of Toronto 100-
	B =	0	,
	C =	0.8	Year Storm IDF
	Td =	Tc + storm duration	

Required Storage Volume, SR
$S_R = Q_P * T_d - Q_c * T_d$

Id		Qр	SR	
(min)	(mm/hr)	(L/s)	(m3)	
10	250.3	144.4	61.44	>Max
11	231.9	133.8	60.59	
12	216.3	124.8	59.62	
13	202.9	117.1	58.55	
14	191.2	110.3	57.39	
15	181.0	104.4	56.16	
16	171.9	99.1	54.86	
17	163.7	94.5	53.50	
18	156.4	90.2	52.09	
19	149.8	86.4	50.63	
20	143.8	82.9	49.13	
21	138.3	79.8	47.58	
22	133.2	76.8	46.00	
23	128.6	74.2	44.39	
24	124.3	71.7	42.74	
25	120.3	69.4	41.07	
26	116.6	67.2	39.37	
27	113.1	65.2	37.64	
28	109.8	63.4	35.89	
29	106.8	61.6	34.12	
30	103.9	60.0	32.33	
31	101.3	58.4	30.52	
32	98.7	56.9	28.70	
33	96.3	55.6	26.85	
34	94.0	54.2	24.99	
35	91.9	53.0	23.11	

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	89.8	51.8	21.22
37	87.9	50.7	19.32
38	86.0	49.6	17.40
39	84.3	48.6	15.47
40	82.6	47.6	13.53
41	81.0	46.7	11.57
42	79.4	45.8	9.61
43	77.9	45.0	7.63
44	76.5	44.1	5.65
45	75.1	43.4	3.65
46	73.8	42.6	1.65
47	72.6	41.9	-0.37
48	71.4	41.2	-2.39
49	70.2	40.5	-4.42
50	69.1	39.8	-6.46
51	68.0	39.2	-8.50
52	66.9	38.6	-10.56
53	65.9	38.0	-12.62
54	65.0	37.5	-14.68
55	64.0	36.9	-16.76
56	63.1	36.4	-18.84
57	62.2	35.9	-20.92
58	61.3	35.4	-23.02
59	60.5	34.9	-25.11
60	59.7	34.4	-27.22
70	52.8	30.4	-48.54





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Modified Rational Method - Stormwater Storage Volume Calculation

2-Year Storm

Project Name:	Proposed Mixed-Use Develeopment -BLDG B
Project Address:	2451-2455 Danforth Avenue, Toronto, ON
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
By:	MP

Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42	L/s (Max outflow from Orifice)

Post-Development Catchment Area Parameters:

Catchment Areas:	A, E, F, H, I, J	See Post Development Catchment Plan
Cpost =	0.73	Post-Development Composite Runoff Coefficient (unitless)
Apost =	0.4687	Site Area, Post-Development (Ha)
Tc =	10	Initial Time of Concentration (minutes)

Rainfall Intensity for Storm Even 2-Year

 $i = A/(T_d + B)^C$

Where:	i =	rainfall	intensity (mm/hr)
	A =	21.8	City of Toronto 100
	B =	0	City of Toronto 100-
	C =	0.78	Year Storm IDF
	$T_d =$	Tc +	storm duration

Post-Development Runoff Flow Rate, QP

$$Q_P = 2.78 * C_{Post} * i * A_{Post}$$

Required Storage Volume, SR

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qp	Sr	
(min)	(mm/hr)	(L/s)	(m3)	
10	88.2	84.1	25.25	>Max
11	81.9	78.1	23.80	
12	76.5	72.9	22.28	
13	71.9	68.5	20.69	
14	67.8	64.7	19.05	
15	64.3	61.3	17.36	
16	61.1	58.3	15.63	
17	58.3	55.6	13.86	
18	55.8	53.2	12.06	
19	53.5	51.0	10.23	
20	51.4	49.0	8.36	
21	49.4	47.1	6.48	
22	47.7	45.5	4.57	
23	46.1	43.9	2.64	
24	44.6	42.5	0.69	
25	43.2	41.1	-1.28	
26	41.9	39.9	-3.26	
27	40.6	38.8	-5.26	
28	39.5	37.7	-7.28	
29	38.4	36.6	-9.31	
30	37.4	35.7	-11.35	
31	36.5	34.8	-13.41	
32	35.6	33.9	-15.47	
33	34.8	33.1	-17.55	
34	34.0	32.4	-19.64	
35	33.2	31.6	-21.74	

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	32.5	31.0	-23.84
37	31.8	30.3	-25.96
38	31.1	29.7	-28.08
39	30.5	29.1	-30.21
40	29.9	28.5	-32.35
41	29.3	28.0	-34.50
42	28.8	27.5	-36.66
43	28.3	27.0	-38.82
44	27.8	26.5	-40.98
45	27.3	26.0	-43.16
46	26.8	25.6	-45.34
47	26.4	25.1	-47.52
48	25.9	24.7	-49.71
49	25.5	24.3	-51.91
50	25.1	24.0	-54.11
51	24.7	23.6	-56.32
52	24.4	23.2	-58.53
53	24.0	22.9	-60.74
54	23.7	22.6	-62.96
55	23.3	22.2	-65.19
56	23.0	21.9	-67.42
57	22.7	21.6	-69.65
58	22.4	21.3	-71.88
59	22.1	21.1	-74.12
60	21.8	20.8	-76.37
61	21.5	20.5	-78.62





civilGo Engineering Inc. 60 Atlantic Avenue, Suite 200 Toronto, ON M6K 1X9 www.civilGo.ca T: 437-222-2062 E: info@civilGo.ca

Modified Rational Method - Stormwater Storage Volume Calculation

2-Year	Storm
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Project Name:	Proposed Mixed-Use Develeopment - BLDG A
Project Address:	2451-2455 Danforth Avenue, Toronto, ON
civilGo Project No.:	22-010
Date:	Sep 2024
Rev. No:	0
Ref. Drawing:	Servicing Plan
By:	MP

Stormwater Quantity Control Criteria:

Control 1-in-100-Year Post-Development Storm Flow to 1-in-2-Year Pre-Development Storm Flow

Qa = Allowable Release Rate =	42	L/s (see FSR Table 5)
Qc = Controlled Release Rate =	42	L/s (Max outflow from Orifice)

Post-Develo	pment Catchment	Area P	arameters:

Catchment Areas:	B, C, D, G	See Post Development Catchment Plan
Cpost =	0.71	Post-Development Composite Runoff Coefficient (unitless)
Apost =	0.29	Site Area, Post-Development (Ha)
Tc =	10	Initial Time of Concentration (minutes)

Rainfall Intensity for Storm Event: 2-Year

$$i = A/(T_d + B)^{\mathcal{C}}$$

Where:	i =	rainfali	intensity (mm/hr)
	A =	21.8	City of Toronto 100-
	B =	0	Year Storm IDF
	C =	0.78	real Stolllilde
	T d =	Tc +	storm duration

Required Storage Volume, S

$$S_R = Q_P * T_d - Q_c * T_d$$

Td	i	Qp	Sr	
(min)	(mm/hr)	(L/s)	(m3)	
10	88.2	50.9	5.32	>Max
11	81.9	47.2	3.45	
12	76.5	44.1	1.53	
13	71.9	41.5	-0.42	
14	67.8	39.1	-2.41	
15	64.3	37.1	-4.43	
16	61.1	35.3	-6.47	
17	58.3	33.6	-8.54	
18	55.8	32.2	-10.62	
19	53.5	30.8	-12.73	
20	51.4	29.6	-14.85	
21	49.4	28.5	-16.98]
22	47.7	27.5	-19.13]
23	46.1	26.6	-21.30]
24	44.6	25.7	-23.47]
25	43.2	24.9	-25.66]
26	41.9	24.1	-27.85]
27	40.6	23.4	-30.06]
28	39.5	22.8	-32.28]
29	38.4	22.2	-34.50]
30	37.4	21.6	-36.73	
31	36.5	21.0	-38.97]
32	35.6	20.5	-41.21	
33	34.8	20.0	-43.47	
34	34.0	19.6	-45.72	
35	33.2	19.1	-47.99	
·		·		

Td	i	Qp	Sr
(min)	(mm/hr)	(L/s)	(m3)
36	32.5	18.7	-50.26
37	31.8	18.3	-52.53
38	31.1	18.0	-54.81
39	30.5	17.6	-57.10
40	29.9	17.3	-59.39
41	29.3	16.9	-61.68
42	28.8	16.6	-63.98
43	28.3	16.3	-66.29
44	27.8	16.0	-68.59
45	27.3	15.7	-70.90
46	26.8	15.5	-73.22
47	26.4	15.2	-75.53
48	25.9	15.0	-77.86
49	25.5	14.7	-80.18
50	25.1	14.5	-82.51
51	24.7	14.3	-84.84
52	24.4	14.1	-87.17
53	24.0	13.9	-89.51
54	23.7	13.7	-91.84
55	23.3	13.5	-94.19
56	23.0	13.3	-96.53
57	22.7	13.1	-98.87
58	22.4	12.9	-101.22
59	22.1	12.7	-103.57
60	21.8	12.6	-105.93
61	21.5	12.4	-108.28



f. Stormwater Retention & 'Water Balance'

Criteria for stormwater retention, or 'Water Balance/Reuse', is given by the City of Toronto's *Wet Weather Flow Management Guidelines (WWFMG)* and *Toronto Green Standard (TGS)*. TGS *WQ 1.1 Water Balance, Quality and Quantity* requires the proponent to address the following criteria.

• Water Balance: Retain a minimum of 50% of average annual rainfall volume (or equivalent 5mm each rainfall event).

The WWFMG and Toronto Water's criteria typically requires that retained stormwater is reused on-site within 72-hours of the 5mm storm.

It is shown, as follows, that the required retention volume to satisfy the TGS and WWFMG criteria is 38.1m³/72-Hours and that this volume of stormwater may be retained on-site by a combination of initial abstractions and storage in a retention cistern (for subsequent greywater and irrigation reuse), providing a total retention volume of 38.2m³/72-Hour.

Table 7 - 'Water Balance', or Stormwater Retention and Reuse, Summary

Catchment Area	Surface Description	Catchment Area (m²)	Initial Abstraction (mm)	Retention Volume (m³)
Target Volume	N/A	7620 m ²	5mm	38.10 m³

Stormwater Retention by Initial Abstraction, as Follows:

Building A				
Green roof (Catchment B)	Pervious Surfaces	610 m ²	5 mm	3.05 m ³
Softscape Surfaces (Catchment C)	Pervious Surfaces	310m²	5 mm	1.55 m ³
Regular Roof (Catchment D)	Impervious Surfaces	1839 m²	1 mm	1.83 m ³
Ground-Level Surfaces (Catchment G)	Impervious Surfaces	160 m²	1 mm	0.16 m ³
Building B				
Softscape Surfaces (Catchment A)	Pervious Surfaces	74 m²	5 mm	0.37 m ³
Regular Roof (Catchment E)	Impervious Surfaces	543 m ²	1 mm	0.543 m ³
Ground-Level Surfaces (Catchment F)	Impervious Surfaces	20 m²	1 mm	0.02 m ³



Ground-Level Surfaces (Catchment H)	Impervious Surfaces	170 m²	1 mm	0.17 m ³
Green roof (Catchment I)	Pervious Surfaces	1240 m²	5 mm	6.2 m ³
Driveway Surface (Catchment J)	Impervious Surfaces	2640 m²	1 mm	2.64m³
	Total Stormwater Retentio	n by Initial Abstractio	ns:	16.53 m ³
R	21.67 m ³			
	38.2 m³			

As shown above, water balance retention of 16.53 m³ is provided by surface initial abstractions. There remains a deficit of 21.67 m³/72-hour, which is addressed by retention in a below-grade stormwater retention cistern and thereafter dispersed on-site by irrigation and greywater reuse. 'Clean' stormwater runoff from the building's roof will drain into a stormwater retention cistern to be designed at the SPA stage.

g. Stormwater Quality

Criteria for stormwater quality is given by the City of Toronto's *Wet Weather Flow Management Guidelines (WWFMG)* and *Toronto Green Standard (TGS)*. TGS Version 4, Tier 1, *WQ 1.1 Water Balance, Quality and Quantity* requires the proponent to address the following criteria.

Water Quality: Provide long-term average removal of 80% Total Suspended Solids (TSS).

There is an open-to-above driveway area at the Site's rear, fronting the laneway, which will be subject to winter maintenance and will require stormwater quality treatment. A stormwater filter device will be specified at the SPA stage, to provide 80% TSS Removal. Preliminarily, a *Jellyfish Filter* by Imbrium Systems will be specified. The Jellyfish Filter has Canadian Environmental Technology Verification (ETV) and NJDEP certification for 80% TSS Removal.



5. Foundation Drainage & Groundwater

a. Criteria

The City of Toronto enacted a foundation drainage policy applying to new development applications made after January 1, 2022, providing criteria for consideration of foundation drainage. The policy applies to new development applications made after January 1, 2022. The policy effectively categories below-grade construction into the following scenarios.

- 'Scenario 1': Below-grade construction extends below the stable groundwater table elevation (or within 1.0m of it) in which case the foundations must be constructed in a watertight or 'bathtubbed' manner.
- 'Scenario 2': Below-grade construction does not extend below the stable groundwater table, and stops 1.0m higher-than the stable groundwater table elevation. The policy offers two solutions in this scenario:
 - 'Scenario 2A': If the project is in a storm or sanitary sewer-shed the foundations may be constructed in a 'drained' manner and the resulting foundation drainage water discharged to the storm or sanitary sewer (subject to satisfying the applicable City criteria with respect to water quality and the sewer having capacity).
 - 'Scenario 2B': If the project is in a combined sewer-shed the foundations must be constructed in a watertight or 'bathtubbed' manner.

The policy also allows the collection and discharge of foundation drainage on-site, into an infiltration gallery or such solution, provided the quality of the water is acceptable.

b. Hydrogeological Investigation Results

The hydrogeological investigation informs which scenario, above, applies to this development.

A Hydrogeological Investigation was prepared by WSP, dated November 2024, to qualitatively and quantitatively characterize the groundwater at the Site with respect to the City's criteria. The conclusions of the report are generally as follows.

The seasonally high groundwater table, considering the required vertical freeboard contingencies, is higher-than the proposed building's foundation drains. The 'Scenario 1' discussion form the City's foundation drainage policy, as outlined, above applies. The proposed building will be constructed in a watertight manner and the hydro-geological manner states so accordingly.

In the short-term, construction-stage, scenario, the daily volume of water entering the excavation (thus requiring discharge) is 353m³/day (which equates to 4.1 L/s).

c. Long-Term Scenario

In the long-term scenario, the proposed building will be constructed in a watertight manner, therefore there will be no long-term discharge of foundation drainage water. A letter has been provided by each of the owner, mechanical engineer and structural engineer, accordingly, on the following pages.



d. Short-Term 'Construction-Stage' Scenario

It is proposed, in the short-term scenario, to collect the water in the excavation for the proposed development and discharge it into the site's existing sanitary sewer connection.

The flow rate of short-term groundwater is $353\text{m}^3/\text{day}$ (which equates to 4.1 L/s). This flow rate is less than the future development's post-development sanitary flow rate (as per Table 3), therefore it follows that the receiving combined sewers have available capacity for the temporary groundwater discharge.





tmptoronto.com

November 5, 2024

Attention: Chief Engineer and Executive Director, Engineering and Construction services c/o Manager, Development Engineering

cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave, Toronto ON M9N 1S9

RE: 2451-2494 DANFORTH AVENUE

Dear Sir or Madam,

I Steve Orchard, confirm that all building(s) on the subject lands 2451-2494 Danforth Ave will be designed and constructed in a manner without Private Water Drainage System (subsurface drainage system) consisting of but not limited to weeping tile(s), foundation drain(s), private water collections sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer. Underground structure(s) of the proposed building(s) will be built completely watertight without any direct or indirect connection to the city sewer for the discharge of groundwater (from a PWDS or floor drain or other infrastructure).

I understand that a Private Water Drainage System as an emergency backup system is not permitted, as part of this proposal.

Yours very truly,

THE MITCHELL PARTNERSHIP INC.

Steve Orchard, P.Eng

Partner







Entuitive Corporation 200 University Avenue, 7th Floor Toronto, ON M5H 3C6 Canada

T. 416.477.5832

November 7th, 2024

Attention: Executive Director, Engineering and Construction Services c/o Manager, Development Engineering 5100 Yonge Street, 4th Floor, Toronto, ON M2N 5V7

Cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave, Toronto, ON M9N 1S9

Re: Watertight Below-Grade Structure, 2451 Danforth Avenue, Toronto, ON Our Project No. EN024-01874

Dear Sir or Madam,

I, Robin Djuita, confirm that all buildings on the subject lands at 2451 Danforth Avenue can be constructed completely water-tight below grade in a manner that will resist hydrostatic pressure without any necessity for Private Water Drainage System (subsurface drainage system) consisting of but not limited to weeping tile(s), foundation drain(s), private water collection sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer.

Note: For structural design only to resist hydrostatic pressure. Entuitive is not responsible for waterproofing, construction and active or passive drainage systems as referenced above.

Sincerely, Entuitive

Robin Djuita, P.Eng. Associate robin.djuita@entuitive.com D: 416 305 2860



entuitive.com





November 11, 2024

Corporate Headquarters

85 Hanna Ave, Suite 400 Toronto, ON M6K 3S3

Attention: Executive Director, Engineering and Construction Services c/o Manager, Development Engineering

cc: General Manager, Toronto Water c/o Manager, Environmental Monitoring and Protection Unit 30 Dee Ave, Toronto ON M9N 1S9

Dear Sir or Madam,

I, Joshua Butcher, confirm and undertake that I will construct and maintain the new buildings to be constructed on the subject lands at 2451-2495 in a manner which shall be completely watertight below grade and resistant to hydrostatic pressure without any necessity for Private Water Drainage System (subsurface drainage system) consisting of but not limited t weeping tile (s), foundation drain(s), private water collection sump(s), private water pump or any combination thereof for the disposal of private water on the surface of the ground or to a private sewer connection directly or indirectly or drainage system for disposal directly or indirectly in a municipal sewer.

FCHT Holdings (Ontario) Corp.

Joshua Butcher

Senior Director, Development

I, Joshua Butcher, have the authority to bind the corporation.

85 Hanna Avenue, Suite 400 Toronto, Ontario M6K 3S3

fcr.ca



6. Grading & Topography

The Site is generally level and no significant grade changes warranting retaining walls etc. are required.

The proposed development fronts on two sides to existing municipal Rights of Way. It is proposed to reconstruct the existing municipal sidewalks on those two frontages, according to City standards.

7. Erosion & Sediment Control

Erosion and sediment control practices will be employed during the construct phase to mitigate sediment transport, in accordance with TRCA and City of Toronto requirements. Refer to the *Erosion and Sediment Control Plan* for the proposed measures.

8. Conclusions

This report has outlined the manner in which the proposed development will be serviced and by which the stormwater management criteria will be satisfied.

Please contact the undersigned with any questions.

Respectfully submitted,



Daniel Bancroft, P.Eng., civilGo Engineering Inc.



APPENDIX A

- Architectural Site Plan by Superkül Architects
- Architectural Statistics by Superkül Architects

Interpretation of the Control

Statistics Template – Toronto Green Standard Version 4.0

City Agency, Corporation & Division-Owned Facilities

The Toronto Green Standard Version 4.0 Statistics Template is submitted with Site Plan Control Applications and stand-alone Zoning Bylaw Amendment applications. Complete the table and copy it directly onto the Site Plan submitted as part of the application.

For Zoning Bylaw Amendment applications: complete General Project Description and Section 1. For Site Plan Control applications: complete General Project Description, Section 1 and Section 2. For further information, please visit www.toronto.ca/greendevelopment

General Project Description		Proposed
Total Gross Floor Area	42493.2 m²	457393.4 ft²
Breakdown of project components (m²):		
Retail GROCERY GFA:	2276.8 m²	24507.3 ft²
Commercial TOTAL RETAIL GFA:	943.1 m²	10152.0 ft ² (EXCLUDING GROCERY)
Industrial		
Institutional/Other		
Total number of residential units	620	

Section 1: For Stand Alone Zoning Bylaw Amendment Applications and Site Plan Control Applications

Low Emissions Transportation	Required	Proposed	Proposed %
Number of Parking Spaces	8	254	>100%
Number of EV Parking Spaces (Residential)	177	177	100%
Number of EV Parking Spaces (Non - Residential)	20	20	100%
Cycling Infrastructure	Required	Proposed	Proposed %
Number of long-term bicycle parking spaces (all-uses)	565	567	>100%
Number of long-term bicycle parking located on:			
a) first storey of building			
b) second storey of building			
c) first level below-ground		567	100%
d) second level below-ground			
e) other levels below-ground			
Number of short-term bicycle parking spaces	147	147	100%
Number of shower and change facilities	2	2	







Statistics Template – Toronto Green Standard Version 4.0

City Agency, Corporation & Division-Owned Facilities

Tree Canopy	Required	Proposed	Proposed %
Total Soil Volume (40% of the site area ÷ 66 m² x 30 m³)	1387 m3	1387 m3	100%
Soil volume provided within the site area (m³)		869.4 m3	
Soil Volume provided within the public boulevard (m³)		517.6 m3	

GREEN ROOF STATISTICS	Proposed	
Gross Floor Area, as defined in Green Roof Bylaw (m²) Total Roof Area (m²) Area of Residential Private Terraces (m²)	41904.6 m ² 613.7 m ² 4231.2 m ²	
Rooftop Outdoor Amenity Space, if in a Residential Building Area of Renewable Energy Devices (m²) Tower (s)Roof Area with floor plate less than 750 m²	1098.6 m² 0 m² N/A	
Total Available Roof Space (m²)		2518.9 m²
Green Roof Coverage	Required	Proposed
Coverage of Available Roof Space (m²) Coverage of Available Roof Space (%)	1511.34 m² 60 %	1530.7 m² 60 %

Definitions

FLOOR PLATE AREA - The total area of a floor of a building, measured from the exterior of the main wall of the floor level, including voids at the level of the floor, such as an atrium, mezzanine, stairwell, escalator, elevator, ventilation duct or utility shaft.

GREEN ROOF - An extension of an above grade roof, built on top of a human-made structure, that allows vegetation to grow in a growing medium and which is designed, constructed and maintained in accordance with the Toronto Green Roof Construction Standard.

GROSS FLOOR AREA - The total area of each floor level of a building, above and below average grade, measured from the exterior of the main wall of each floor level, including voids at the level of each floor, such as an atrium, mezzanine, stairwell, escalator, elevator, ventilation duct or utility shaft, but excluding areas used for the purpose of parking or loading.

PRIVATE TERRACE - Outdoor amenity area on a roof that is available exclusively for use by the occupants of an abutting residential unit for recreational or social activities.

	GFA BREAKD	OWN					PROJECT STATIST	ICS SUMMARY		
	GROSS CON	ISTRUCTION REA	ZBL 569 EXCLUS			W 569-2013 GROSS R AREA	NUMBER OF FLOORS: 13/2	29 FSI (GFA/LOT AREA):	5.62	
BELOW GRADE	7		EXCLU	SIONS	FLOO	N ANEA	GROSS CONSTRUCTION AR	REA (GCA) ABOVE GRADE:	46594.9 m²	50154
Level	GCA, m2	GCA, sf	GFA Exclusion, m2	GFA Exclusion. sf	GFA, m2	GFA, sf	TOTAL GROSS FLOOR ARE	A (GFA): *as definied in ZBL 569-2013	42493.2 m²	45739
2	,		5803.6 m ²	62469.7 ft²	399.3 m ²	4298.3 ft²	RESIDENTIAL GFA	:	39273.3 m²	42273
1		66321.2 ft²		64004.7 ft²	215.2 m ²	2316.5 ft²	RETAIL GFA:		943.1 m²	10152
rand total	12364.4 m²	133089.2 ft²	11/49.9 m²	126474.5 ft²	614.5 m ²	6614.7 ft²	GROCERY STORE	GFA:	2276.8 m²	24507
ABOVE GRADE Level	GCA, m2	GCA, sf	GFA Exclusion, m2	GEA Exclusion of	GFA, m2	GFA, sf	POPS AREA:		353.9 m²	3809.4
round Floor	,		478.1 m ²	5146.2 ft ²	3509.5 m ²	37776.5 ft ²	LOT AREA:		7,724 m²	
evel02	1479.1 m²	15920.5 ft ²	122.0 m²	1313.0 ft²	1357.1 m²	14607.6 ft²	CONVEYANCES AREA:		168m²	
evel03		29071.8 ft ²	1540.4 m²	16580.4 ft²	1160.5 m ²	12491.4 ft²	ADJUSTED LOT AREA:		7,556m²	
evel04		29082.4 ft ²	102.5 m ²	1102.8 ft²	2599.4 m ²	27979.6 ft²	NUMBER OF RESIDENTIAL	UNITS:	620	
evel05 evel06	2650.2 m ² 2650.2 m ²	28526.4 ft ² 28526.4 ft ²	102.5 m ²	1102.8 ft² 1102.8 ft²	2547.7 m ² 2547.7 m ²	27423.6 ft² 27423.6 ft²	NUMBER OF AFFORDABLE	UNITS:	*Affordable Units Note:To be with statutory IZ requirement reviewed during the Site Pla	its. Number
evel07	2650.2 m ²	28526.4 ft ²	102.5 m ²	1102.8 ft²	2547.7 m ²	27423.6 ft ²			Ţ,	
evel08		28526.4 ft ²	102.5 m ²	1102.8 ft²	2547.7 m ²	27423.6 ft²				
evel09		24393.3 ft ²	102.5 m ²	1102.8 ft²	2163.8 m ²	23290.5 ft²	UNIT COUNT AND N	MIX		
evel10 evel11		24393.3 ft ² 22138.0 ft ²	102.5 m ² 104.4 m ²	1102.8 ft ² 1123.3 ft ²	2163.8 m ² 1952.3 m ²	23290.5 ft² 21014.7 ft²	BUILDING A*: *SEE UNIT MIX DIAGRAM GR	EY AREA		
evel12		22138.0 ft ²	104.4 m ²	1123.3 ft²	1952.3 m²	21014.7 ft ²	1	Residential Residenti		
evel13	2056.7 m ²	22138.0 ft ²	104.4 m²	1123.3 ft²	1952.3 m²	21014.7 ft²	Level Level03	GFA, m2 GFA, st 320.0 m ² 3444.8 ft ²		_
evel14/MPH	1159.4 m²	12480.1 ft ²	349.4 m²	3760.7 ft ²	810.1 m ²	8719.4 ft²	Level03	992.5 m ² 10683.0 ft		\dashv
evel15		9156.0 ft ²	49.4 m²	531.2 ft²	801.3 m ²	8624.8 ft ²	Level05	992.5 m ² 10683.0 ft		$\overline{}$
evel16		9156.0 ft ²	49.4 m ²	531.2 ft²	801.3 m ²	8624.8 ft²	Level06	992.5 m ² 10683.0 ft		
vel17 vel18		9156.0 ft ²	49.4 m ² 49.4 m ²	531.2 ft ²	801.3 m ² 801.3 m ²	8624.8 ft² 8624.8 ft²	Level07	992.5 m ² 10683.0 ft		
evel18 evel19		9156.0 ft ²	49.4 m ²	531.2 π ² 531.2 ft ²	801.3 m ²	8624.8 ft ²	Level08	992.5 m ² 10683.0 ft		
evel20		9156.0 ft ²	49.4 m ²	531.2 ft ²	801.3 m ²	8624.8 ft ²	Level09	719.1 m ² 7740.2 ft ²	14	
evel21		9156.0 ft ²	49.4 m ²	531.2 ft ²	801.3 m ²	8624.8 ft ²	Level10	719.1 m ² 7740.2 ft ²	14	$\overline{}$
vel22		9156.0 ft ²	49.4 m²	531.2 ft²	801.3 m²	8624.8 ft ²	Level11 Level12	719.1 m ² 7740.2 ft ² 719.1 m ² 7740.2 ft ²	14	\dashv
evel23		9156.0 ft ²	49.4 m²	531.2 ft²	801.3 m ²	8624.8 ft²	Level13	719.1 m ² 7740.2 ft ²	14	\dashv
evel24		9156.0 ft ²	49.4 m²	531.2 ft²	801.3 m ²	8624.8 ft²	Level14/MPH	719.1 m ² 7740.2 ft ²	14	\dashv
vel25		9156.0 ft ²	49.4 m ²	531.2 ft²	801.3 m ²	8624.8 ft ²	Level15	719.1 m ² 7740.2 ft ²	14	
vel26 vel27		9156.0 ft ²	49.4 m ²	531.2 ft ²	801.3 m ² 801.3 m ²	8624.8 ft ² 8624.8 ft ²	Level16	719.1 m ² 7740.2 ft ²	14	
vel28		9156.0 ft ²	49.4 m ²	531.2 ft ²	801.3 m ²	8624.8 ft ²	Level17	719.1 m ² 7740.2 ft ²	14	\Box
vel29		9156.0 ft ²	49.4 m ²	531.2 ft ²	801.3 m ²	8624.8 ft ²	Level18	719.1 m ² 7740.2 ft ²	14	\perp
PH		5419.6 ft ²	455.9 m²	4907.0 ft ²	47.6 m²	512.6 ft ²	Level19 Level20	719.1 m ² 7740.2 ft ² 719.1 m ² 7740.2 ft ²	14	_
and total	46594.9 m²	501543.3 ft ²	4716.2 m²	50764.7 ft ²	41878.7 m ²	450778.7 ft²	Level21	719.1 m ² 7740.2 ft ² 7740.2 ft ²	14	\dashv
TOTALS	GCA, m2	GCA, sf	GFA Exclusion, m2		GFA, m2	GFA, sf	Level22	719.1 m ² 7740.2 ft ²	14	\dashv
OVE AND BELOW TOTAL	58959.3 m ²	634632.6 ft ²	16466.1 m ²	177239.2 ft ²	42493.2 m ²	457393.4 ft²	Level23 Level24 Level25	719.1 m ² 7740.2 ft ² 719.1 m ² 7740.2 ft ² 719.1 m ² 7740.2 ft ²	14 14 14	
							Level26	719.1 m ² 7740.2 ft ²	14	
							Level27	719.1 m ² 7740.2 ft ²	14	
DEFINITIONS				CAR PARKING			Level28	719.1 m ² 7740.2 ft ²	14	\perp
							Level29	719.1 m ² 7740.2 ft ² 20383.2 m ² 219403.1	14 ft² 379	
From the City of Toronto ZBL 569-2013 In the Residential Zone category, the <u>G</u> the area in the building used for:	3: Gross Floor Area of an apartr	ment building is reduced b	у	Level Par	tor/Commercial Visitor/Co rking Provided Parking	Required Provided			1	
(A) parking, loading and bicyc	rcle parking below established and required bicycle parking sp	grade; paces at or above establish	ned	P1 77		2 sitor parking	BUILDING A UNIT MIX: Name Cour	nt Unit Mix Average Are	a m2 Averse	ae ∆r
(C) storage rooms, washroom the basement:	ms, electrical, utility, mechanic				= 2 + (0.01		UNIT 1BD 201	53.0% 46.8 m ²	503.6	
(D) shower and change facilit law for required bicycle parking spaces; (E) indoor amenity space req	เนอร ฮาเน มเตyตเe maintenance f s; [By-law: 839-2022] quired by this By-law;	racinales required by this B	·y-	Level	Provided		UNIT 2BD 95	25.1% 65.3 m ²	702.4	
(F) elevator shafts; (G) garbage shafts; (H) mechanical penthouse; at	and			P2 149 P1 28			UNIT 3 BD 36	9.5% 91.5 m²	984.7	
(I) exit stairwells in the buildi	ling.			177	_		UNIT STUDIO 47	12.4% 31.6 m ²	340.6	
Floor Space Index Calculation In the Residential Zone category, the flo	loor space index				otal Parking Provided		379	235.2 m ²		√ ft²
		floor area of a building		254					2531.3	<i>)</i> 10
(A) for a non-residential build divided by the area of the lot;	0.	ŭ					BUILDING B*: *SEE UNIT MIX DIAGRAM HA	TCHED AREA		
divided by the area of the lot; (B) for a residential building, of floor area, plus the area of an attic description of the areas listed in	other than an apartment buildi cribed in regulation 10.5.40.40	ing, is the result of the gro O(1) and subject to regulat	oss ion				BUILDING B*: "SEE UNIT MIX DIAGRAM HA		ial	
divided by the area of the lot; (B) for a residential building, floor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and	other than an apartment buildi cribed in regulation 10.5.40.40 regulation 10.5.40.40(3), divi	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of						rched area Residential Residenti	al Count	
divided by the area of the lot; (B) for a residential building, of floor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building,	other than an apartment buildi cribed in regulation 10.5.40.40 regulation 10.5.40.40(3), divi	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of					Level	Residential Residenti GFA, m2 GFA, st	f Count 2 14 11	
divided by the area of the lot; (B) for a residential building, floor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1	other than an apartment buildi cribed in regulation 10.5.40.40 regulation 10.5.40.40(3), divi	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of		AMENITY			Level Level02 Level03 Level04	Residential Residential GFA, st 972.8 m ² 10470.6 ft 724.8 m ² 7801.4 ft ² 1298.7 m ² 13979.3 ft	Tal Count 14 11 2 24	
divided by the area of the lot; (B) for a residential building, floor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1	other than an apartment buildi cribed in regulation 10.5.40.40.40 in regulation 10.5.40.40(3), diving, is the result of the gross floo 10.5.40.40(4), divided by the a	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of					Level Level02 Level03 Level04 Level05	Residential GFA, st 972.8 m ² 10470.6 ft 724.8 m ² 7801.4 ft ² 1298.7 m ² 13979.3 ft 1252.1 m ² 13477.7 ft	fal Count 2 14 11 2 24 2 23	
divided by the area of the lot; (B) for a residential building, of loor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1	other than an apartment buildincribed in regulation 10.5.40.40 aregulation 10.5.40.40(3), dividing, is the result of the gross floo 10.5.40.40(4), divided by the a	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of		AMENITY	Indoor Ameni		Level Level02 Level03 Level04 Level05 Level06	Residential GFA, st 972.8 m ² 10470.6 ft 724.8 m ² 7801.4 ft ² 1298.7 m ² 13979.3 ft 1252.1 m ² 13477.7 ft 1252.1 m ² 13477.7 ft	Count 14 11 2 24 2 23 2 23	
divided by the area of the lot; (B) for a residential building, of loor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1 LOADING F TYPE 'A' LOADING SPACE TYPE 'B' LOADING SPACE TYPE 'C' LOADING SPACE TYPE 'C' LOADING SPACE TYPE 'G' LOADING SPACE	other than an apartment buildincribed in regulation 10.5.40.40 regulation 10.5.40.40(3), dividing, is the result of the gross floo 10.5.40.40(4), divided by the a	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of		AMENITY Level Name	Provided	Required	Level Level02 Level03 Level04 Level05 Level06 Level07	Residential GFA, st 972.8 m ² 10470.6 ft 724.8 m ² 7801.4 ft ² 1298.7 m ² 13979.3 ft 1252.1 m ² 13477.7 ft 1252.1 m ² 13477.7 ft 1252.1 m ² 13477.7 ft	Count 14 11 2 24 2 23 2 23 2 23	
divided by the area of the lot; (B) for a residential building, of loor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1 LOADING F TYPE 'A' LOADING SPACE TYPE 'B' LOADING SPACES TYPE 'C' LOADING SPACES TYPE 'G' LOADING SPACES TYPE 'G' LOADING SPACES TYPE 'G' LOADING SPACES PUDO PARKING SPACES	other than an apartment buildi cribed in regulation 10.5.40.40 regulation 10.5.40.40 regulation 10.5.40.40(3), divided by the aspect of the gross floop 10.5.40.40(4), divided by the aspect of the gross floop 10.5.40.40(4).	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of		AMENITY	Provided Y 1240.1 m²	Required 1240 m²	Level Level02 Level03 Level04 Level05 Level06	Residential GFA, st 972.8 m ² 10470.6 ft 724.8 m ² 7801.4 ft ² 1298.7 m ² 13979.3 ft 1252.1 m ² 13477.7 ft 1252.1 m ² 13477.7 ft 1252.1 m ² 13477.7 ft	Count Count Count 14 11 24 23 23 23 23 23 23	
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divided by the area of the lot; (B) for a residential building, of floor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1 LOADING F TYPE 'A' LOADING SPACE TYPE 'B' LOADING SPACE TYPE 'C' LOADING SPACES TYPE 'G' LOADING SPACE SPUDO PARKING SPACES	other than an apartment buildi cribed in regulation 10.5.40.40 regulation 10.5.40.40 regulation 10.5.40.40(3), divided by the aspect of the gross floop 10.5.40.40(4), divided by the aspect of the gross floop 10.5.40.40(4).	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of		AMENITY Level Name Level03 AMENITY	Provided Y 1240.1 m² Outdoor Amen Provided OR 1300.4 m²	Required 1240 m² equired area (2sm per unit) = 1240m². ity Outdoor Amenity	Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11	Residential GFA, sf 972.8 m ² 10470.6 ft 724.8 m ² 7801.4 ft ² 1298.7 m ² 13979.3 ft 1252.1 m ² 13477.7 ft 1252.1 m ² 13252.9 ft 1045.4 m ² 11252.9 ft 1045.4 m ² 11252.9 ft	Count Co	
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divided by the area of the lot; (B) for a residential building, of loor area, plus the area of an attic desc 10.5.40.40(2) minus the areas listed in and (C) for an apartment building, apartment building listed in regulation 1 LOADING F TYPE 'A' LOADING SPACE TYPE 'B' LOADING SPACE TYPE 'C' LOADING SPACES TYPE 'G' LOADING SPACE TYPE 'G' LOADING SPACE TYPE 'G' LOADING SPACE PUDO PARKING SPACES	other than an apartment buildi cribed in regulation 10.5.40.40 regulation 10.5.40.40 regulation 10.5.40.40(3), divided by the aspect of the gross floop 10.5.40.40(4), divided by the aspect of the gross floop 10.5.40.40(4).	ing, is the result of the gro 0(1) and subject to regulat ded by the area of the lot; r area, minus the areas of		AMENITY Level Name Level03 AMENITY Level Name Level03 OUTDOO	Provided Y 1240.1 m² Outdoor Amen Provided OR 1300.4 m² Y	Required 1240 m² equired area (2sm per unit) = 1240m². ity Outdoor Amenity Required 1240 m²	Level Level02 Level03 Level04 Level05 Level06 Level07 Level08 Level09 Level10 Level11 Level12	Residential GFA, sf 972.8 m² 10470.6 ft 724.8 m² 7801.4 ft² 1298.7 m² 13979.3 ft 1252.1 m² 13477.7 ft 1252.9 ft 1045.4 m² 11252.9 ft 1045.4 m² 11252.9 ft 13645.3 m² 146876.3	Count Co	
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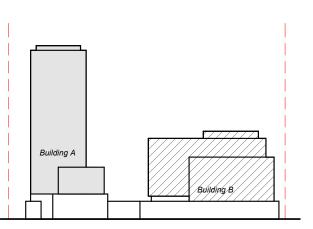
Prior to commencement of the Work the Contractor shall verify all drawing dimensions, datums, and levels with the Contract Documents and with the conditions on site; ascertain any discrepancies between the site and the Contract Documents, and bring these items to the attention of the Architect for clarification.

superk"

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UNIT MIX DIAGRAM

2 SEP 10, 2025 1 OCT 28, 2024 Re-Issued for OPA and ZBA Issued for OPA and ZBA Issue/Revision



2451-2495 Danforth

2451-2495 Danforth Avenue, Toronto, ON M6R 2J5

Drawing No.

PROJECT STATISTICS

Project No. 2216 Scale 1:1

Δ 001

GREEN ROOF STATISTICS	Proposed	
Gross Floor Area, as defined in Green Roof Bylaw (m²)		41904.6 m ² 613.7 m ²
Total Roof Area (m²)		4231.2 m ²
Area of Residential Private Terraces (m²)	1000 62	
Rooftop Outdoor Amenity Space, if in a Residential Buildin	1098.6 m ²	
Area of Renewable Energy Devices (m²) Tower (s)Roof Area with floor plate less than 750 m²		0 m² N/A
Tower (s)Root Area with floor plate less than 750 m		IN/A
Total Available Roof Space (m²)	2518.9 m²	
Green Roof Coverage	Proposed	
Coverage of Available Roof Space (m²)	1511.34 m²	1530.7 m
Coverage of Available Roof Space (%)	60 %	60 %

Definitions

FLOOR PLATE AREA - The total area of a floor of a building, measured from the exterior of the main wall of the floor level, including voids at the level of the floor, such as an atrium, mezzanine, stairwell, escalator, elevator, ventilation duct or utility shaft.

GREEN ROOF - An extension of an above grade roof, built on top of a human-made structure, that allows vegetation to grow in a growing medium and which is designed, constructed and maintained in accordance with the Toronto Green Roof Construction Standard.

GROSS FLOOR AREA - The total area of each floor level of a building, above and below average grade, measured from the exterior of the main wall of each floor level, including voids at the level of each floor, such as an atrium, mezzanine, stairwell, escalator, elevator, ventilation duct or utility shaft, but excluding areas used for the purpose of parking or loading.

PRIVATE TERRACE - Outdoor amenity area on a roof that is available exclusively for use by the occupants of an abutting residential unit for recreational or social activities.

LOADING NOTES

1. TYPE G LOADING SPACE AND ADJACENT STAGING PAD HAVE VERTICAL CLEARANCE OF MIN 6.1 METERS,
OVERHEAD DOOR TO LOADING SPACE WILL HAVE MIN 4.4 METER HEIGHT. 2.1M DEEP STAGING AREA DIRECTLY IN FRONT OF THE LOADING AREA TO HAVE MIN, VERTICAL CLEARANCE OF 6.1M.

2. TYPE G LOADING SPACE WILL BE SHARED BETWEEN RESIDENTIAL AND NON-RESIDENTIAL USES. NON-RESIDENTIAL COMPONENT WILL ONLY SCHEDULE USE OF THE TYPE G LOADING SPACE ON DIFFERENT DAYS FROM THE COLLECTION DAYS OF THE RESIDENTIAL COMPONENT TO ENSURE THAT THE TYPE G LOADING SPACE WILL BE VACANT FOR CITY WASTE COLLECTION.

3. NON-RESIDENTIAL WASTE WILL BE LABELLED AND STORED SEPARATELY FROM THE BINS FOR RESIDENTIAL WASTE.

4. TYPE G LOADING SPACE WILL BE LEVEL (+/- 2%) AND CONSTRUCTED WITH MIN 200mm THICK SACRIFICIAL CONCERETE SLAB

5. A WARNING SYSTEM WILL BE PROVIDED, ALERTING DRIVERS WHEN EXITING THE UNDERGROUND PARKING GARAGE THAT LARGE TRUCKS ARE MANOEUVRING WITHIN THE PUBLIC LANE;

6. ALL ACCESS DRIVEWAYS TO BE USED BY THE GARBAGE COLLECTION VEHICLE WILL HAVE:

a) MAXIMUM GRADIENT OF 8%;

b) MINIMUM VERTICAL CLEARANCE OF 4.4 METERS THROUGHOUT;

c) MINIMUM WERTICAL CLEARANCE OF 1.5 METRES THROUGHOUT;

AND A STAGEN OF THE CONTROL OF 1.5 METRES THROUGHOUT;

AND A STAGEN OF THE CONTROL OF 1.5 METRES THROUGHOUT;

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b) MINIMUM VIDTH OF 4.5 METRES THROUGHOUT; AND,
d) 6 METRES WIDE AT POINT OF INGRESS AND EGRESS.
7. NO PARKING' SIGNS TO BE PROVIDED AND MAINTAINED ADJACENT TO THE LOADING SPACE.
8. CONSTRUCT ANY TYPE G LOADING SPACE AND ALL DRIVEWAYS AND PASSAGEWAYS PROVIDING ACCESS THERETO, TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, INCLUDING ALLOWANCE FOR CITY OF TORONTO BULK LIFT AND REAR BIN LOADING WITH IMPACT FACTORS WHERE THEY ARE TO BE BUILT AS SUPPORTED STRUCTURES.
9. THE RESIDENTIAL SOLID WASTE ROOM WILL ACCOMMODATE GARBAGE, RECYCLING AND ORGANICS FOR THE RESIDENTIAL COMPONENT OF THE BUILDING VIA USE OF A BISORTER IN THE DEVELOPMENT.
10. BULK WASTE HAS 10m2 DESIGNATED FLOOR AREA FOR THE DEVELOPMENT.
11. "COLLECTION OF WASTE MATERIALS FOR THIS DEVELOPMENT WILL TAKE PLACE IN AN ENCLOSED LOADING BAY. AN ON-SITE STAFF PERSON IS RESPONSIBLE FOR MOVING THE BINS FROM THE GARBAGE STORAGE SPACE TO THE COLLECTION POINT AND PROVIDE VEHICULAR DIRECTIVES TO THE COLLECTION VEHICLE OPERATOR AS REQUIRED."
12. THIS BUILDING IS DESIGNED WITH A TYPE G LOADING SPACE. A FLASHING WARNING LIGHT SYSTEM AND / OR APPROPRIATE SIGNAGE ADJACENT TO THE SPACE, AT NO COST TO THE CITY, WILL BE IN PLACE AND ACTIVATED DURING COLLECTION AND REMAIN ACTIVE UNTIL THE VEHICLE EXITS THE SITE. REFER TO TRAFFIC CONSULTANT REPORT FOR SWEPT PATH.
13. SOLID WASTE MANAGEMENT TO BE NOTIFIED UPON COMPLETION OF THE DEVELOPMENT AND SHOULD PUBLIC WASTE COLLECTION BE USED, ALL NECESSARY APPLICATION AND WAIVER FORMS TO BE COMPLETED PRIOR TO COMMENCEMENT OF CITY REFUSE COLLECTION.
14. NON-RESIDENTIAL GARBAGE WILL BE COLLECTED BY LISCENSED PRIVATE WASTE MANAGEMENT COMPANY.
15. REFUSE GENERATED BY THE NON-RESIDENTIAL USE MUST BE STORED ON SITE, IN RODENT PROOF CONTAINERS IN ACCORDANCE WITH CHAPTER 841 OF THE MUNICIPAL CODE, "WASTE COLLECTION, COMMERCIAL PROPERTIES".

16. TRAINED ON-SITE STAFF MEMBER WILL BE AVAILABLE TO MANOEOUVRE BINS FOR THE COLLECTION DRIVER AND ALSO ACT AS A FLAGMAN WHEN THE TRUCK IS REVERSING. IN THE EVENT THE ON-SITE STAFF IS UNAVAILABLE AT THE TIME THE CITY COLLEGION VEHICLE ARRIVES AT THE SITE, THE COLLECTION VEHICLE WILL LEAVE THE SITE AND NOT RETURN UNTIL THE NEXT SCHEDULED COLLECTION DATE. FOR SPECIFIC TRUCK DIMENSIONS AND TURNING RADII, REFER TO TRAFFIC CONSULTANT'S REPORT.

SITE PLAN NOTES

1. THE BUILDING IS TO BE SPRINKLERED.

2. RESIDENTIAL VISITOR PARKING SPACES WILL BE INDIVIDUALLY SIGNED AT THE FRONT OF EACH SPACE FOR THE USE OF RESIDENTIAL VISITORS. BUILDING MANAGEMENT SHALL PROVIDE ENFORCEMENT OF THIS ARRANGEMENT. VISITORS: BUILDING MANAGEMENT SHALL PROVIDE ENFORCEMENT OF THIS ARRANGEMENT.

3. SIDEWALKS AND BOULEVARDS WITHIN THE RIGHT OF WAY TO HAVE A MINIMUM 1% AND MAXIMUM 4% SLOPE TOWARDS THE ROADWAY.

4. REFER TO SITE SERVICING DOCUMENTS FOR SEWER AND WATER SERVICE INFORMATION.

5. ANY RETAINING WALLS ARE TO BE PROFESSIONALLY ENGINEERED.

6. ALL EXISTING ACCESSES, CURB CUTS, TRAFFIC CONTROL SIGNS, ETC. ALONG THE DEVELOPMENT SITE FRONTAGES THAT ARE NO LONGER REQUIRED ARE TO BE REMOVED. THE BOULEVARD WITHIN THE PUBLIC RIGHT OF WAY, IN ACCORDANCE WITH CITY STANDARDS AND TO THE SATISFACTION OF THE EXECUTIVE DIRECTOR OF TECHNICAL SERVICES ARE TO BE REINSTATED.

7. PROPOSED ACCESS TO THE RIGHT-OF-WAY/LANEWAY FOR THIS PROJECT TO BE DESIGNED IN ACCORDANCE WITH CITY STANDARD NOT 3140, 650.1 E.OR COMMINION OF THE SATISFACTION OF THE SATISFACTION OF THE SATISFACTION OF THE RIGHT-OF-WAY/LANEWAY FOR THIS PROJECT TO BE DESIGNED IN ACCORDANCE WITH CITY STANDARD NOT 3140, 650.1 E.OR COMMINION OF THE SATISFACTION O

NO.T310-050-1 FOR COMBINED CURB AND SIDEWALK VEHICULAR ENTRANCES.
8. NO SPEED BUMPS SHALL BE INSTALLED ON ANY DESIGNATED FIRE ROUTE.
9. MAX. POROSITY OF ALL GROUND LEVEL VENTILATION GRATES MUST BE 20mm X 20mm PER TORONTO GREEN STANDARDS.
10. ALL EXTERIOR LIGHT FIXTURES TO BE 'DARK SKY' COMPLIANT.

UTILITY/SERVICES NOTES

1. THE METHOD OF INSTALLATION FOR THE PROPOSED SERVICE CONNECTIONS WILL BE AT THE DISCRETION OF TORONTO WATER. 2. EXISTING CONNECTIONS NO LONGER IN USE SHALL BE DISCONNECTED BY TORONTO WATER AT THE OWNER'S COST.

3. THE LOCATION OF THE WATER METER SHALL BE TO TORONTO WATER'S SATISFACTION."

4. THE OWNER IS REQUIRED TO INSTALL AND MAINTAIN A PREMISE ISOLATION DEVICE FOR ALL APPLICABLE WATER SERVICES IN ACCORDANCE WITH THE TORONTO MUNICIPAL CODE, CHAPTER 851 WATER SUPPLY, THE BUILDING CODE AND CSA B64 SERIES 5. THE BUILDING'S STORM AND SANITARY SYSTEM MUST BE DESIGNED TO BE ABLE TO OPERATE UNDER MUNICIPAL SURCHARGE CONDITIONS.

6. BE ADVISED THAT SHOULD ANY PARTY, INCLUDING THE APPLICANT OR ANY SUBSEQUENT OWNER, APPLY FOR MORE THAN ONE CONDOMINIUM CORPORATION ENCOMPASSING ANY OR ALL OF THIS DEVELOPMENT OR MAKE AN APPLICATION THAT RESULTS IN A LAND DIVISION, STAFF MAY REQUIRE LEGAL ASSURANCES, INCLUDING BUT NOT LIMITED TO EASEMENTS, WITH RESPECT TO THE APPROVED SERVICES. SUCH ASSURANCES WILL BE DETERMINED AT THE TIME OF APPLICATION FOR CONDOMINIUM APPROVAL.

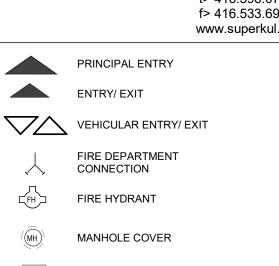
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Prior to commencement of the Work the Contractor shall verify all drawing dimensions, datums, and levels with the Contract Documents and with the conditions on site; ascertain any discrepancies between the site and the Contract Documents, and bring these items to the attention of the Architect for

101 - 35 Golden Avenue

Toronto, ON M6R 2J5

t> 416.596.0700 f> 416.533.6986 www.superkul.ca



CATCH BASIN

HYDRO POLE

EL ELECTRICAL STAND ---- EXTENT OF BELOW GRADE

---- BUILDING ELEMENT ABOVE OPEN TO BELOW

EXTENT OF GROUND FLOOR

GEODETIC ELEVATION

HT: 12.30 m ELEVATION FROM EXTABLISHED GRADE / 78.20 EXISTING GRADE ELEVATION

TURNING RADIUS EXISTING BUILDING

PROPERTY CONVEYANCE

BARRIER FREE

PROPERTY LINE

FFE FINISHED FLOOR ELEVATION TOP OF PARAPET

TOR TOP OF ROOF TOS TOP OF STRUCTURE

TGS TORONTO GREEN STANDARDS TPZ TREE PROTECTION ZONE

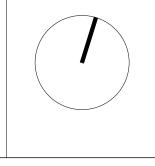
NOTE:

SURVEY INFORMATION TAKEN FROM "LOT 1 AND PART OF LOT 2 REGISTERED PLAN 614 YORK AND PART OF LOT 13 SOUTH SIDE OF DANFORTH AVENUE REGISTERED PLAN 90 YORK AND PART OF LOTS 3,4,5,6,7 AND 8 REGISTERED PLAN 580 YORK CITY OF TORONTO" BY KRCMAR SURVEYORS LTD. DATED JULY, 27 2022.

SEP 10, 2025 Re-Issued for OPA and ZBA OCT 28, 2024

Issued for OPA and ZBA Issue/Revision





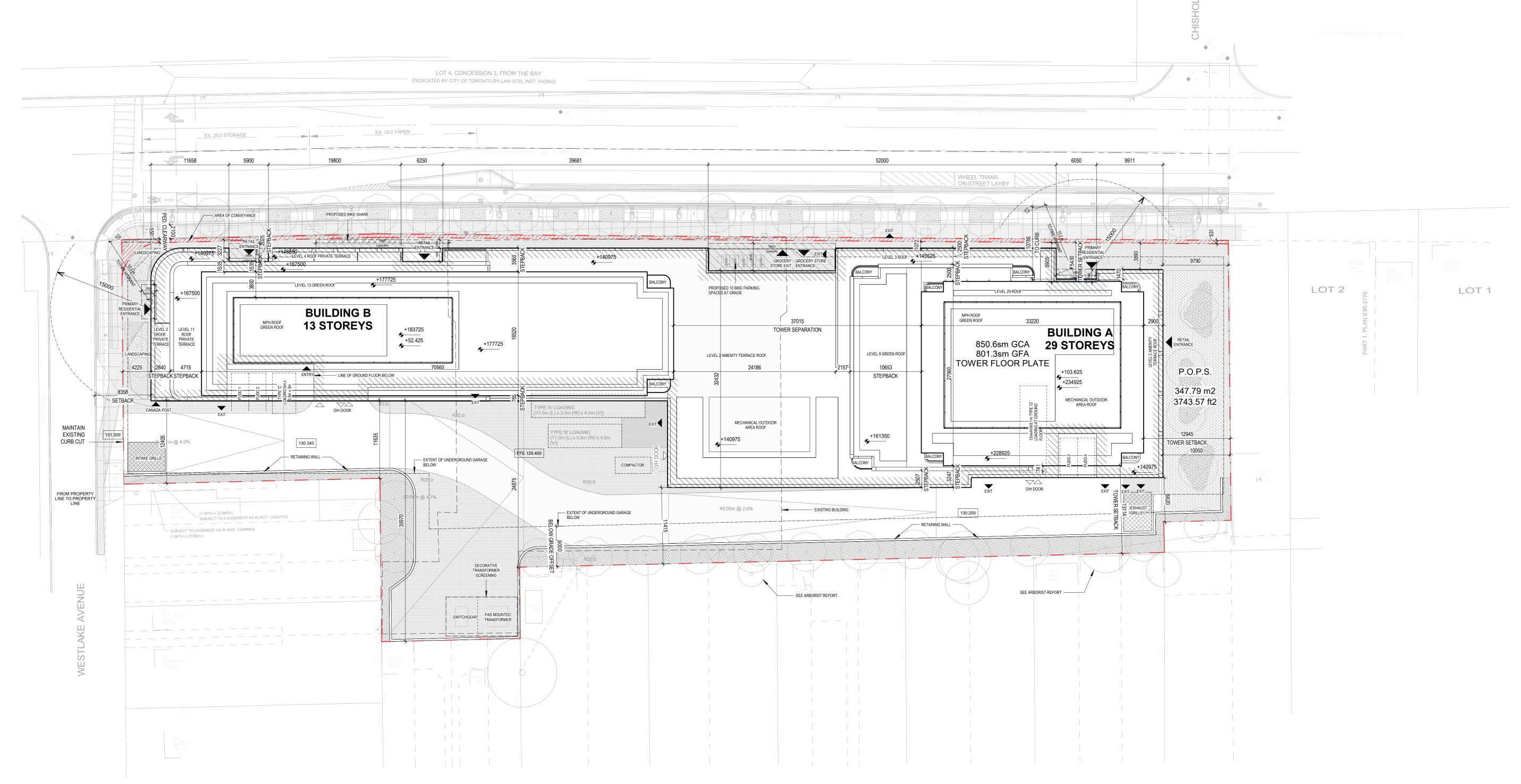
2451-2495 Danforth

2451-2495 Danforth Avenue, Toronto, ON M6R 2J5

SITE PLAN

Scale As indicated Project No. 2216 Drawing No.

A.100





APPENDIX B

• Dye Test Investigation by Aquaflow Technologies



226 WILKINSON ROAD, BRAMPTON, ONTARIO L6T 4N7 (905) 792-8169

COMBINED SEWER INVESTIGATION REPORT DYE TEST

100 MM - 450 MM DIAMETER COMBINED SEWERS

FOR

2451 - 2495 DANFORTH AVENUE

CITY OF TORONTO

CONSULTING ENGINEER: CIVIL GO ENG. INC.
CONSULTING ENGINEER'S REPRESENTATIVE:
DANIEL BANCROFT
OWNER: FIRST CAPITAL
OWNER'S REPRESENTATIVE: MADELEINE BRADSHAW

WEDNESDAY, AUGUST 9TH, 2023

INDEX:

- 1. TITLE PAGE AND INDEX
- 2. SUMMARY REPORT AND CONCLUSIONS
- 3. SKETCH OF SEWERS INSPECTED

SEWER CLEANING, VIDEO INSPECTION, INSITU REPAIRS & MUNICIPAL ENGINEERING SERVICES

2. SUMMARY REPORT AND CONCLUSIONS:

The investigation of the combined sewers at 2451 - 2495 Danforth Avenue was carried out by Steven Lostracco, P.Eng. of Aquaflow Technology, and was authorized by Daniel Bancroft of Civil Go Eng. Inc. The investigation was carried out on Wednesday August, 9th, 2023.

The purpose of this report was to determine which municipal sewer the building storm and sanitary drains connect to. Dye testing was carried out to confirm which sewer the building connects to.

- 1. All drains on site connect to the Danforth Avenue 300 mm / 375 mm combined sewer (sewer on the south side of Danforth Avenue). DCB-1, CB-2, CB-3, CB-4, CB-5, all roof drains and the sanitary drains all connect to the combined sewer system.
- 2. Note, all storm drains on the west side of the site connect to the property line STM-MH, then connect to the combined sewer. All sanitary sewers for the site connect to the property line SAN-MH, then connect to the combined sewer.



1. 2451-2495 Danforth Ave



2. Property line STM + SAN MH's

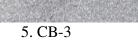


3. Dye observed in 300 mm / 375 mm comb. swr





4. DCB-1







6. Roof drains

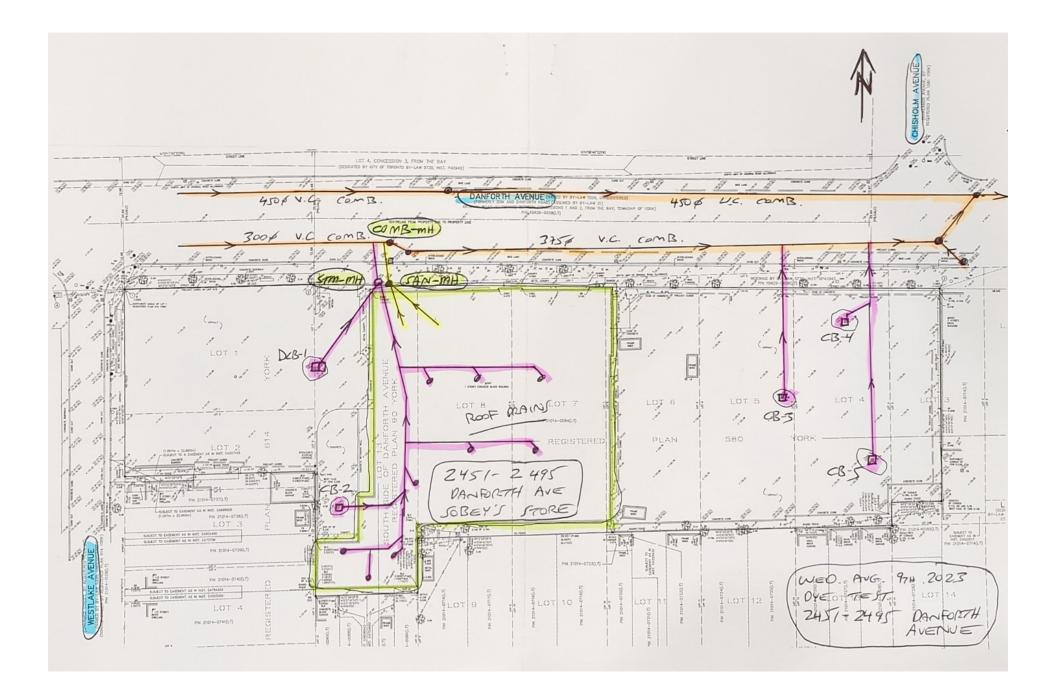
7. Roof drains



8. Flush truck + video van for dye testing

Report Prepared by:

Steven Lostracco, P. Eng.





APPENDIX C

• City Engineering Records – City of Toronto Drawing No. D-110-1



