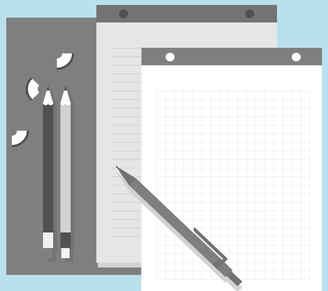
PORT HOPE ZONE 1 ELEVATED TANK CLASS ENVIRONMENTAL ASSESSMENT

PUBLIC INFORMATION CENTRE # 1

WELCOME!
Please **sign in.**





WE NEED YOUR INPUT!
Please write down your comments and **reach out.**

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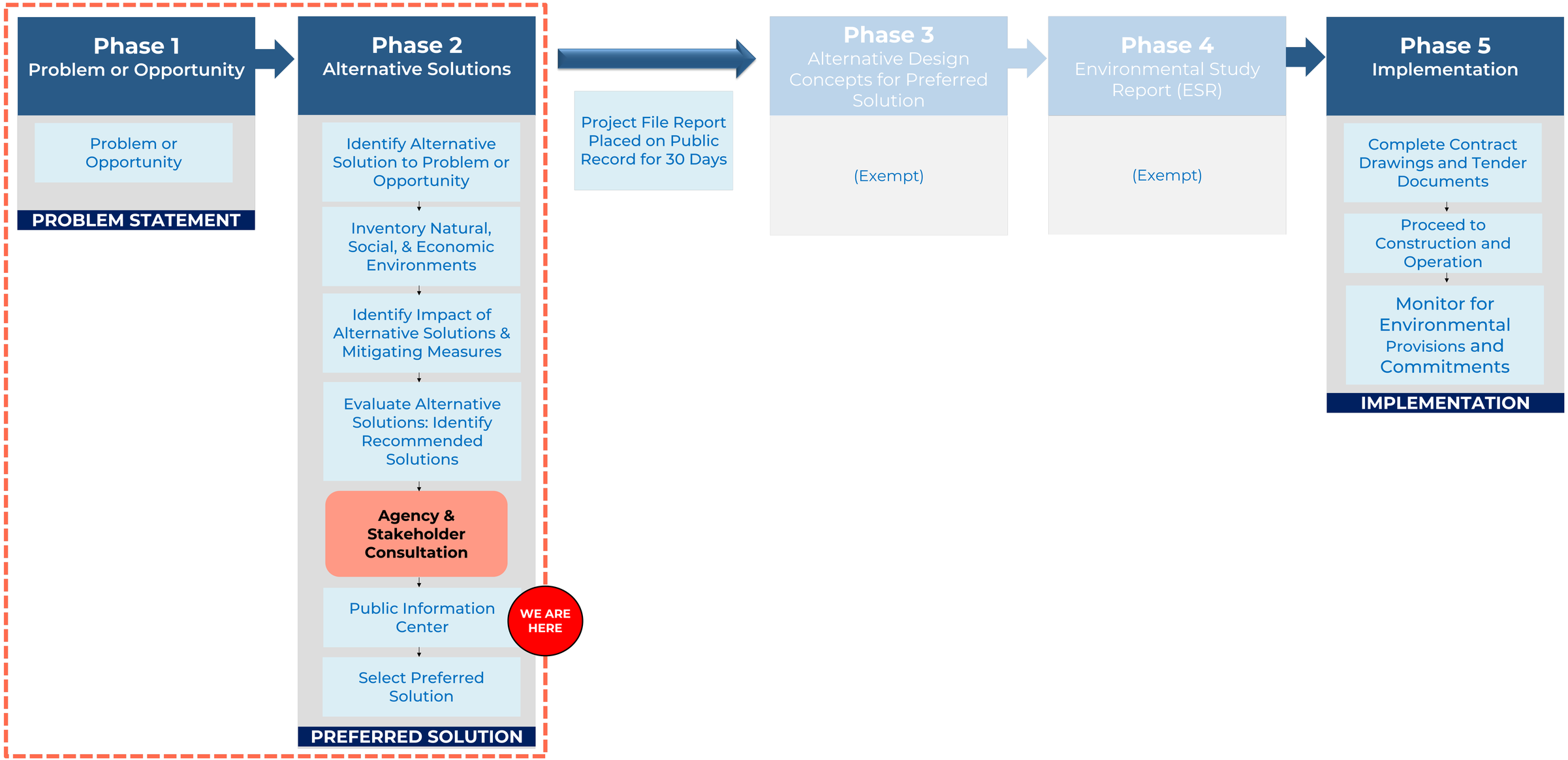
PORT HOPE ZONE 1 ELEVATED TANK

CLASS ENVIRONMENTAL ASSESSMENT

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Municipal Class Environmental Assessment Process

The Port Hope Zone 1 Water Storage Project corresponds to a **Schedule B** undertaking, in accordance with the planning process outlined in the *Municipal Engineers Association (MEA) Municipal Class Environmental Assessment (Class EA) Document* (last amended in 2015). Therefore, the Project requires the completion of Phases 1 and 2 of the MEA Class EA process. Upon completion of the Study, a Class EA Project File Report will be prepared and filed for public review.



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CLASS ENVIRONMENTAL ASSESSMENT

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Problem Statement

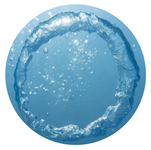
As Port Hope grows, the Municipality's Drinking Water System is faced with three challenges:



1) The existing Dorset Street West standpipe is at the **end of its life** and needs substantial repairs. It does not provide sufficient storage capacity.



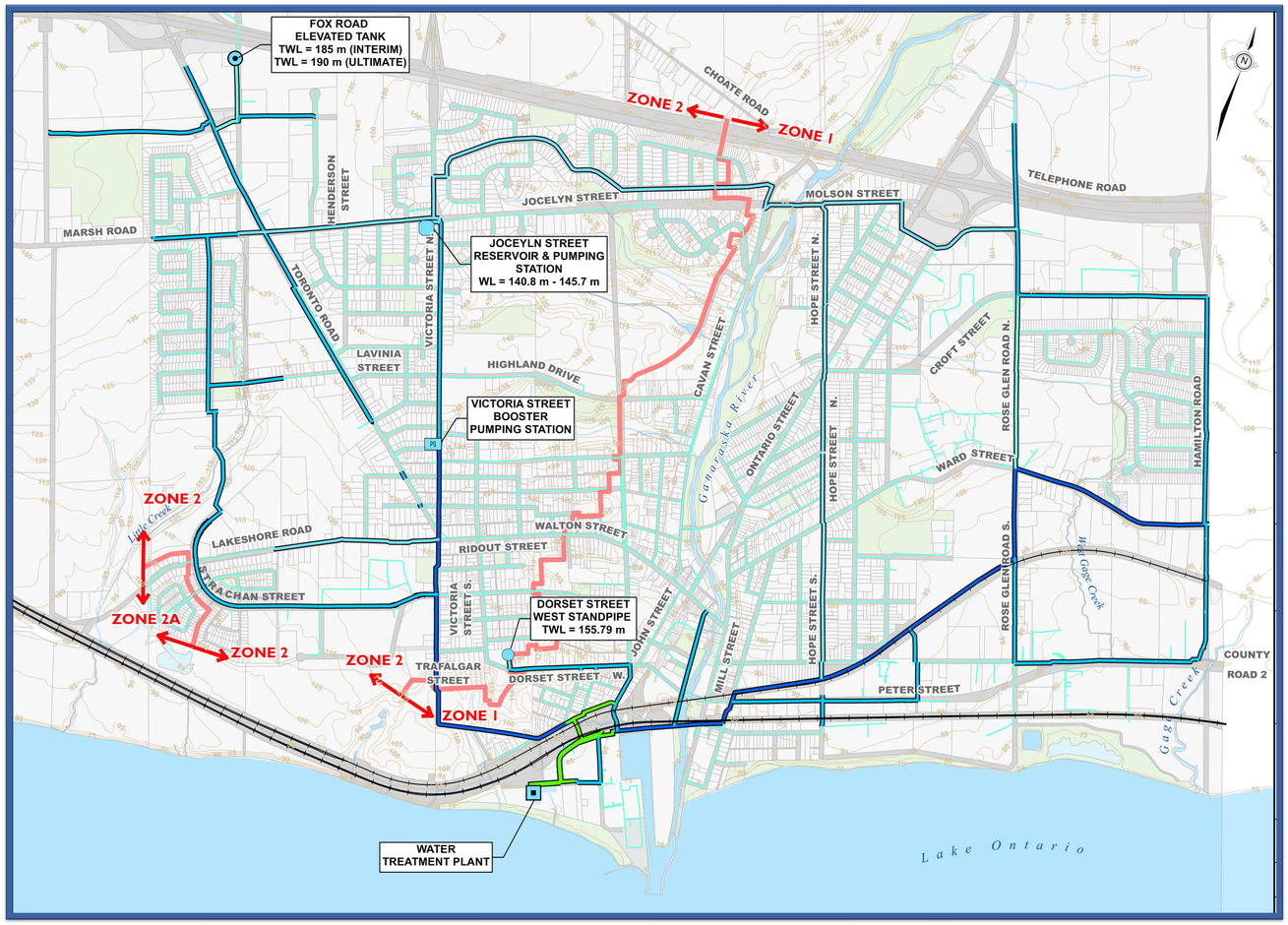
2) The water distribution system has limited capacity to provide flows for firefighting in Zone 1.



3) Redundancy and security of supply are required to reduce vulnerabilities in the water system.

The objective of the project is to address storage capacity limitations in Zone 1 of Port Hope's water supply system to accommodate future growth and improves its reliability and redundancy.





Purpose of Public Information Centre

The purpose of this PIC is to tell you about the project and the process followed to find the preferred solution to the problem.

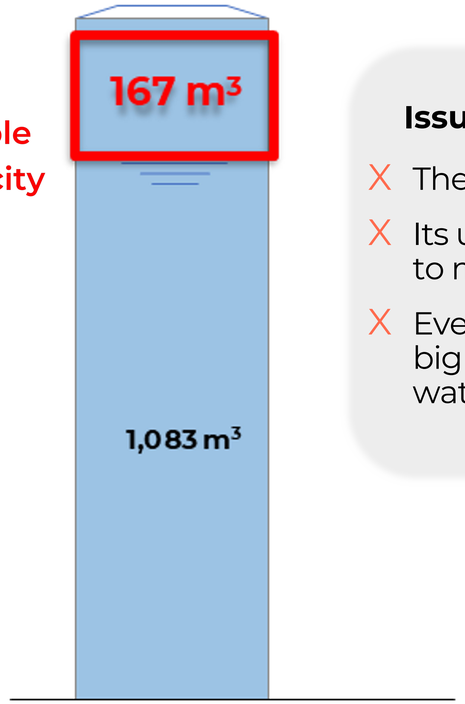
We also would like to get you involved – please provide your input using the notes, dots and cards provided. Tell us your priorities, what we should avoid, and what really matters to your daily life in Port Hope.

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Dorset Street West Standpipe



Issues with Existing Standpipe

- X The standpipe is in poor condition.
- X Its usable storage volume is insufficient to meet water demands.
- X Even if retrofitted, the standpipe is not big enough to maintain the required water system pressure.

The standpipe rehabilitation is estimated at $1.5M:

- Interior and exterior coating replacement
- Replacement of inlet/outlet piping and drain piping
- Structural repairs to the underground access tunnel and chamber below the standpipe
- Various electrical safety upgrades





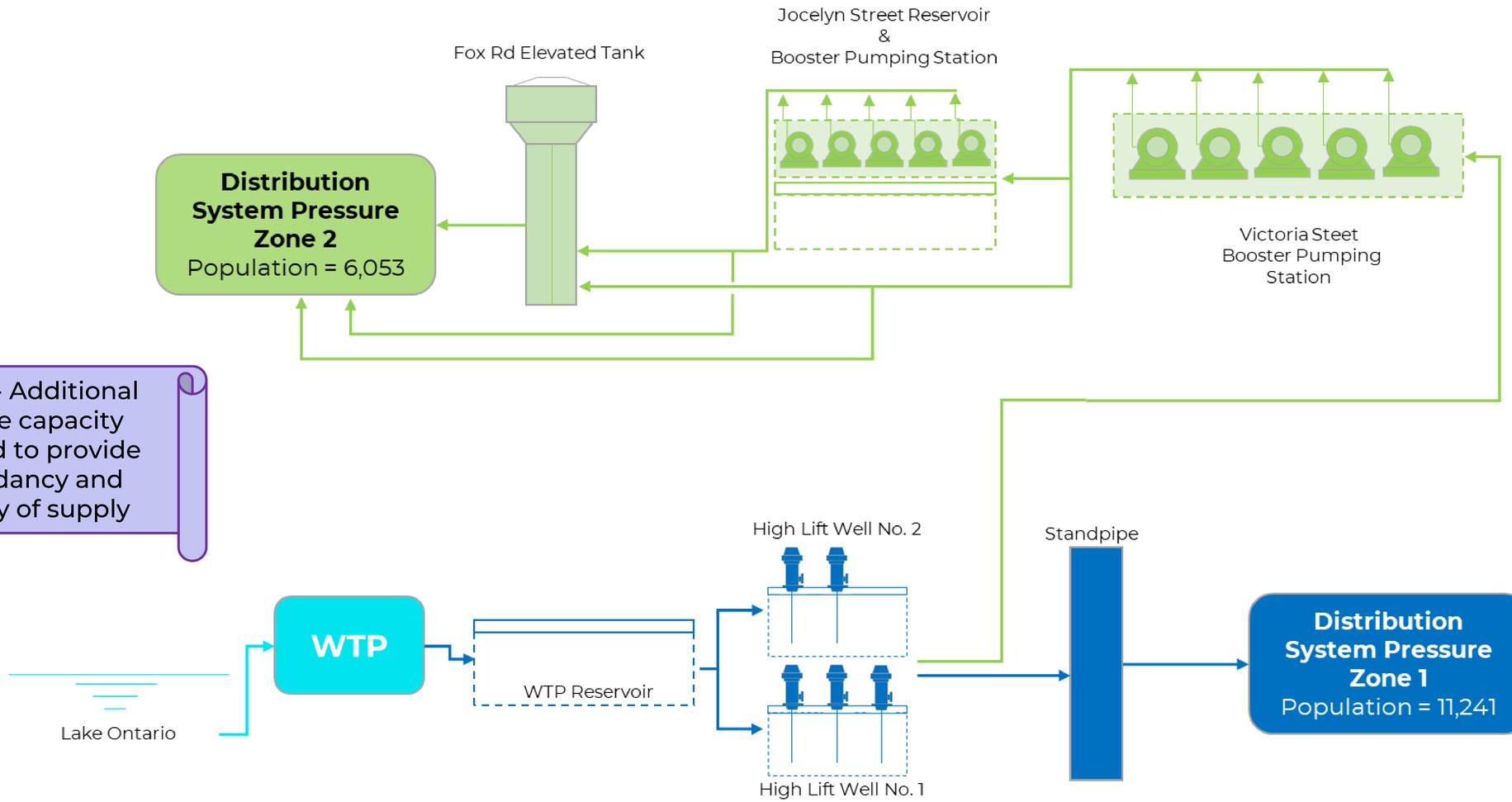



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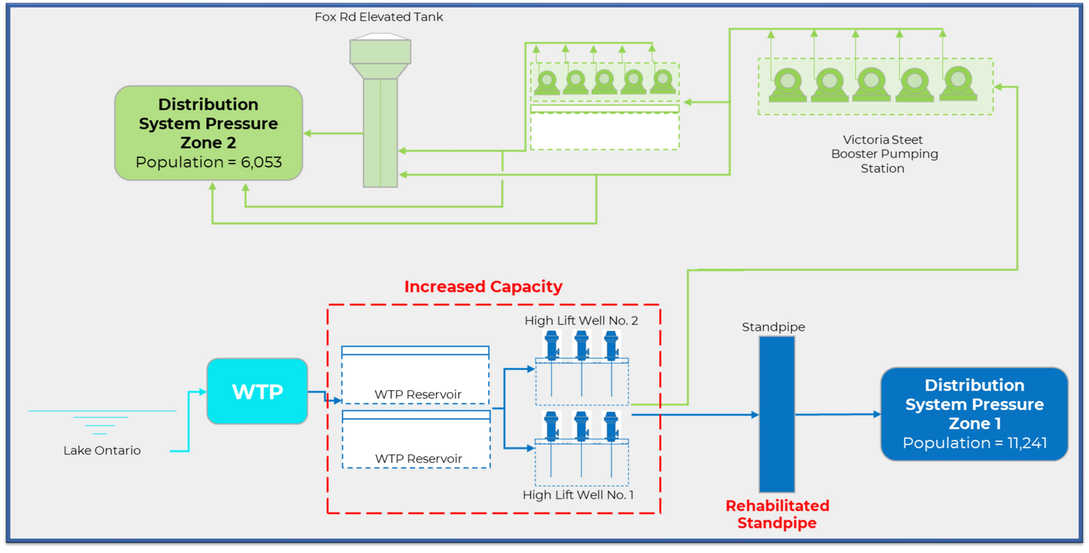
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Existing Drinking Water System



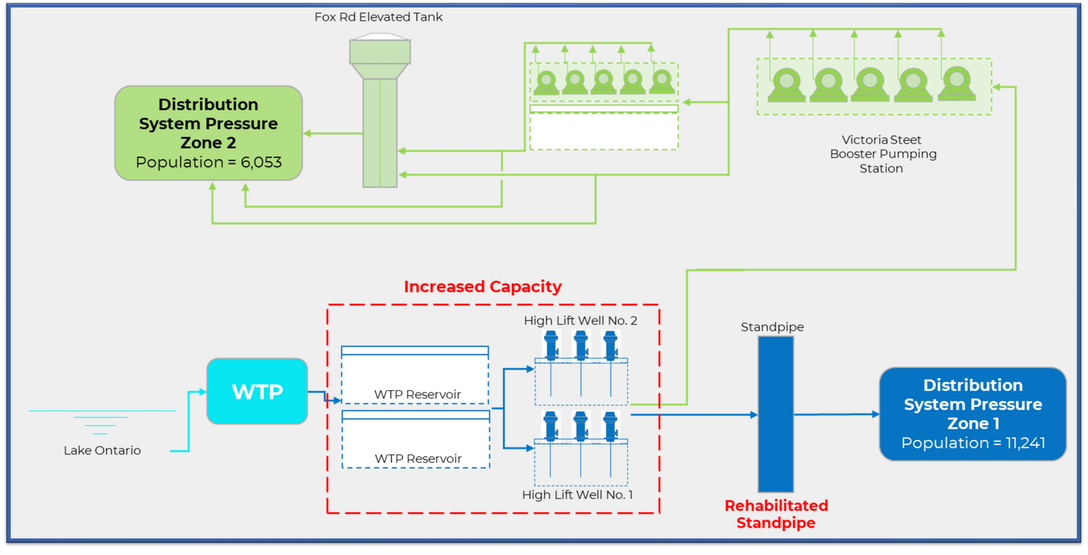
PORT HOPE ZONE 1 ELEVATED TANK

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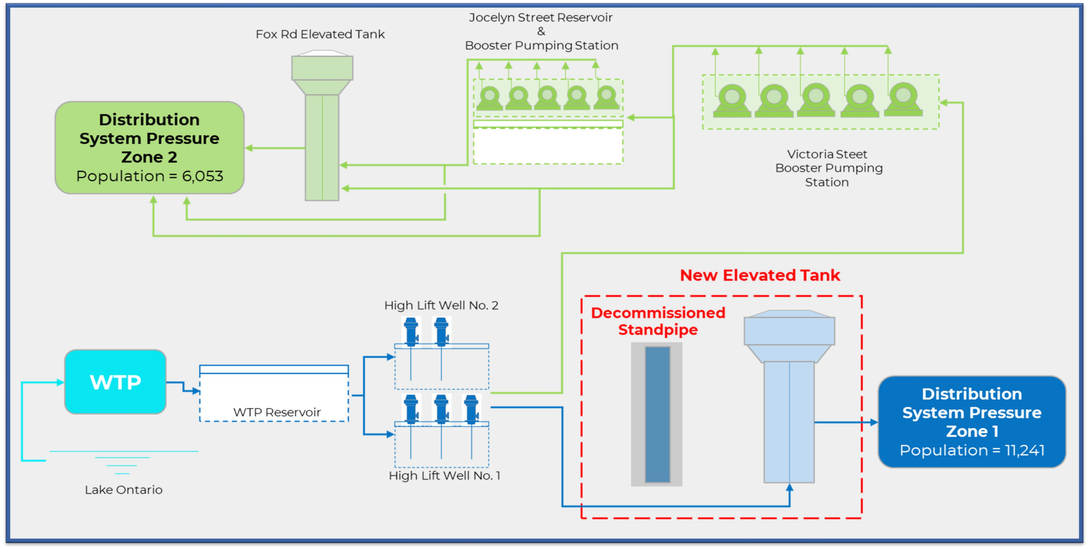
Strategy 1 - Increase Capacity at Port Hope WTP

- X Does not address storage capacity issues.
- X Inefficient operation. Increased energy costs.
- X Does not address redundancy and security of supply concerns.



Strategy 2 - Build New Reservoir and Pumping Station

- + Addresses storage capacity issues.
- X Inefficient operation. Increased energy costs.
- X Higher capital cost.



Strategy 3 - Construct new Elevated Tank

- + Addresses storage capacity issues.
- + Efficient operation.
- + Addresses redundancy and security of supply concerns.

PORT HOPE ZONE 1 ELEVATED TANK

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Screening of Alternative Strategies

Strategy 1 - Increase Capacity of the Existing WTP Reservoir and High Lift Pumps

- ☒ Does not increase floating storage or firm pumping capacity
- ☒ Does not improve redundancy nor security of supply
- ☒ Does not reduce reliance on the WTP

Strategy 2 - Construct a New In-Ground Reservoir and Pumping Station

- ☒ Does not increase floating storage or firm pumping capacity
- ☑ Improves redundancy and security of supply
- ☑ Reduces reliance on the WTP

Strategy 3 - Construct a New Elevated Tank

- ☑ Increases floating storage and firm pumping capacity
- ☑ Improves redundancy and security of supply
- ☑ Reduces reliance on the WTP

Screening Criteria

- Does the strategy result in sufficient floating storage and pumping capacity?
- Does the strategy improve security of supply/redundancy?
- Does the strategy reduce reliance on the Port Hope Water Treatment Plant?

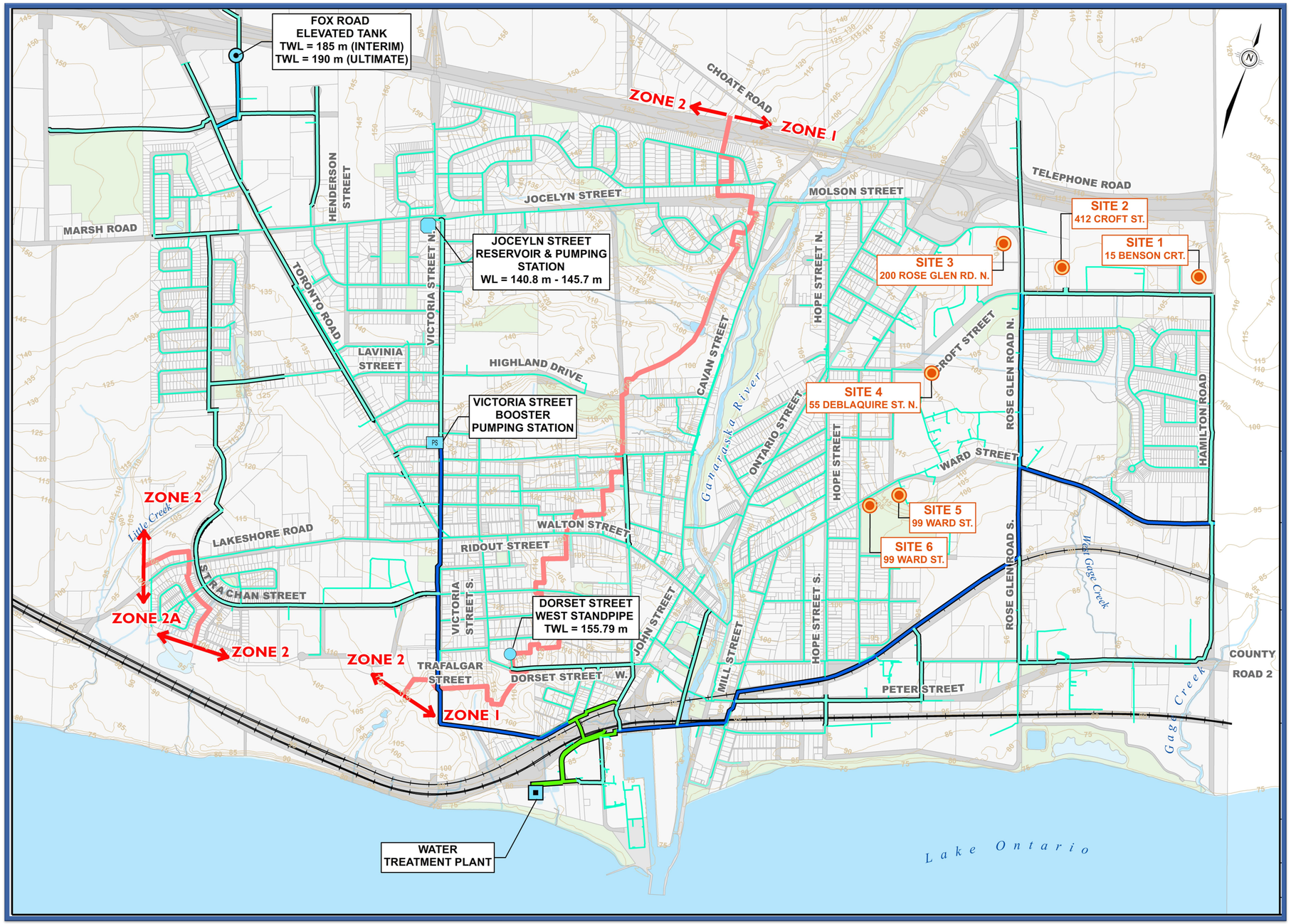
TELL US WHAT YOU THINK

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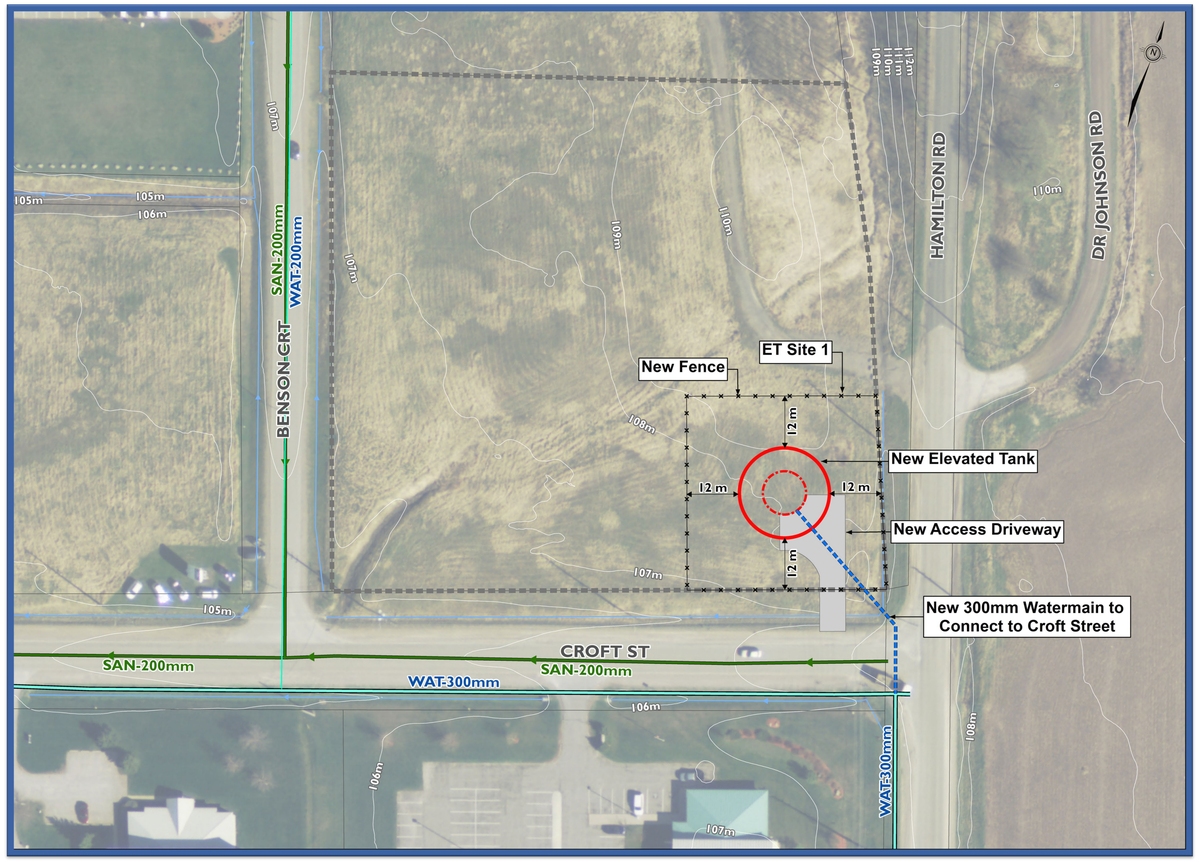
WHERE SHOULD WE BUILD THE NEW ELEVATED TANK?



PORT HOPE ZONE 1 ELEVATED TANK

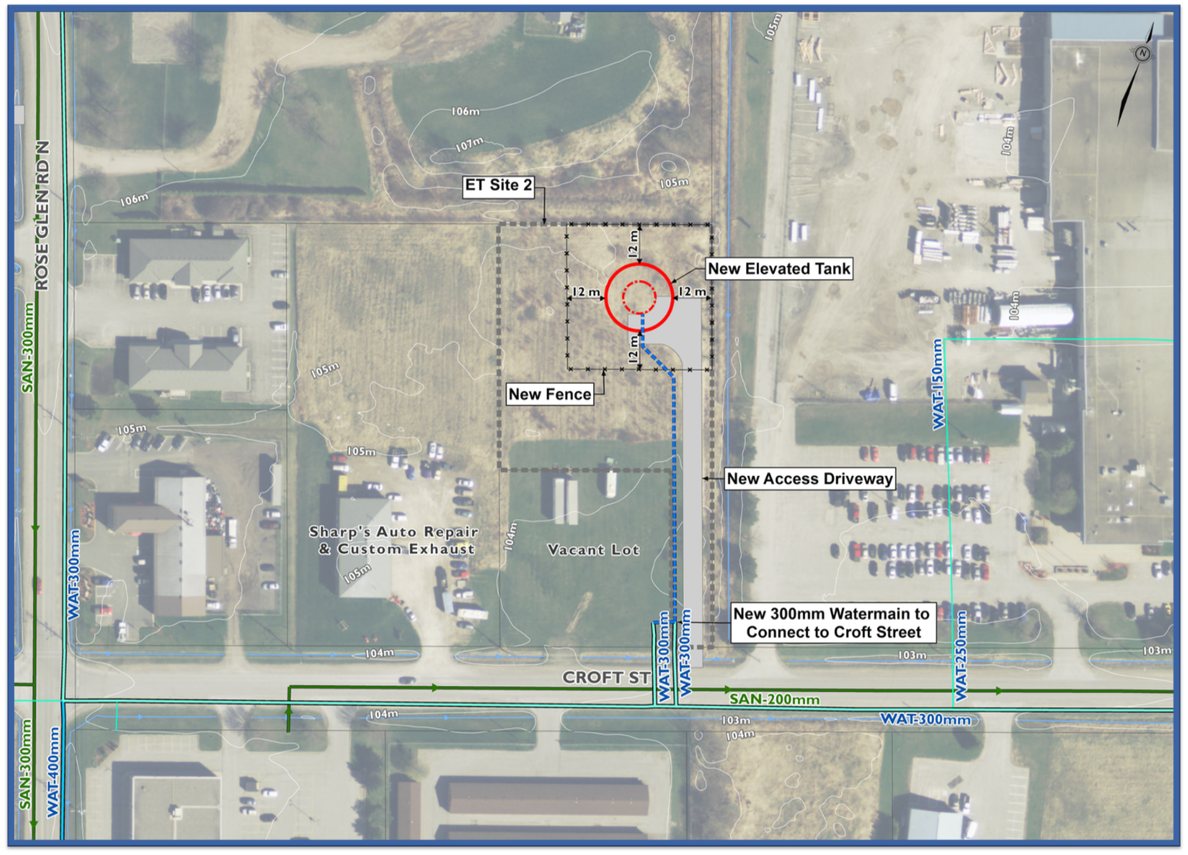
CLASS ENVIRONMENTAL ASSESSMENT

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Site 1 - 15 Benson Court

- X Property not owned by the Municipality
- \+ Located in a commercial area, away from residential areas
- \+ Located close to existing watermain infrastructure



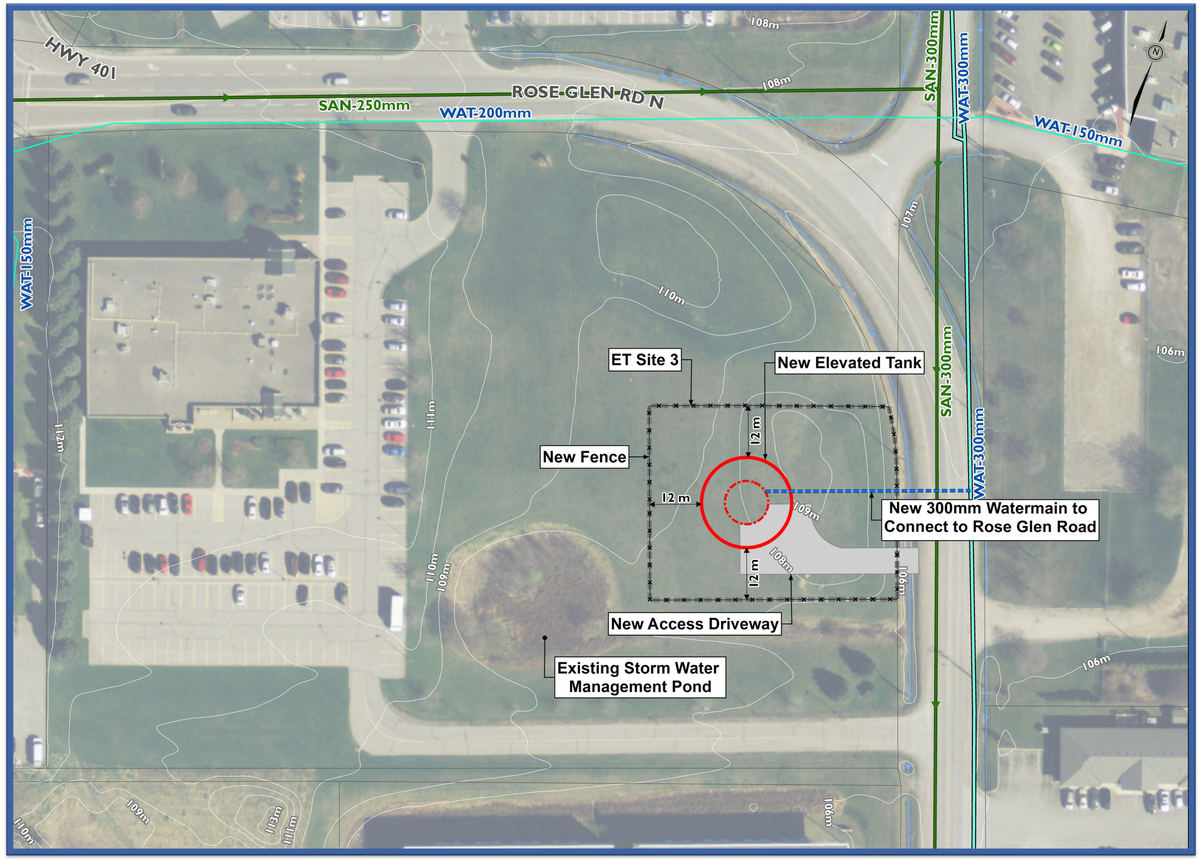
Site 2 - 412 Croft Street

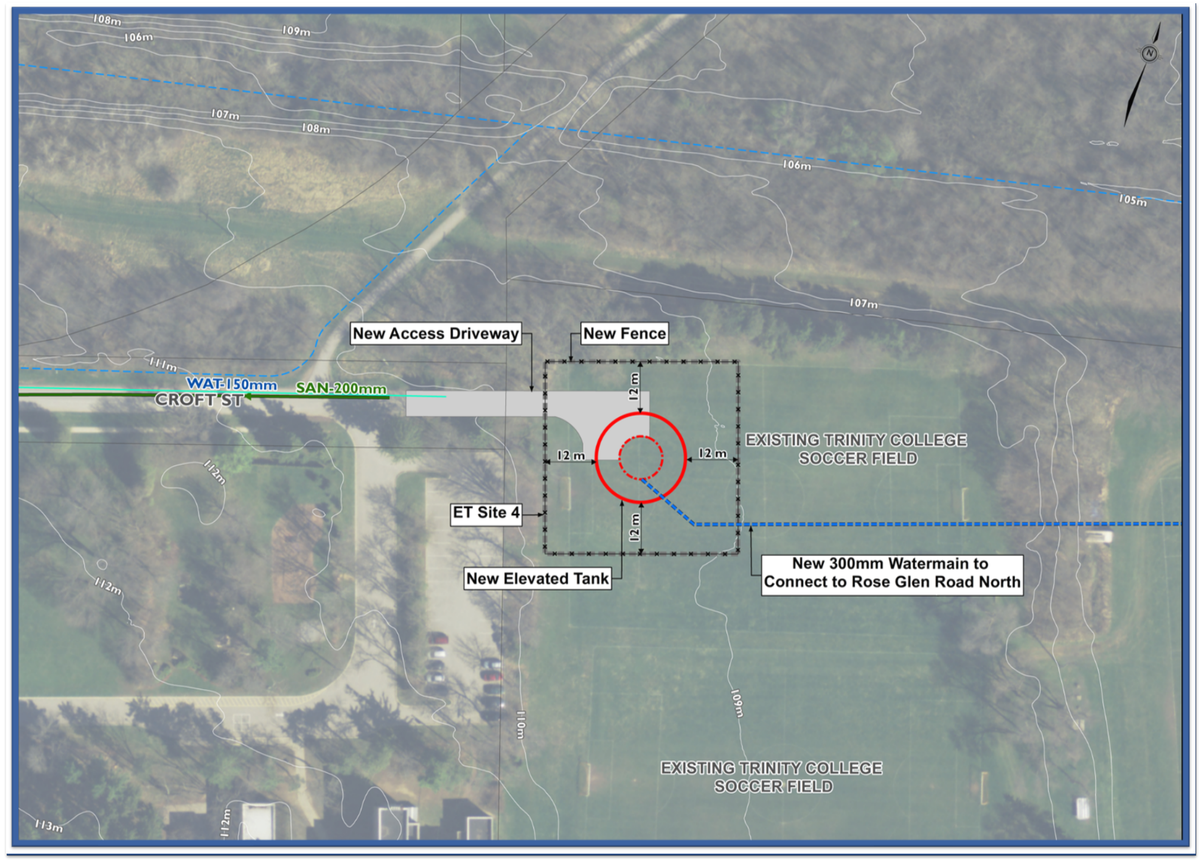
- \+ Property is owned by the Municipality
- \+ Located in commercial area, away from residential areas
- \+ Located close to existing watermain infrastructure

PORT HOPE ZONE 1 ELEVATED TANK

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Site 3 - 200 Rose Glen Road North

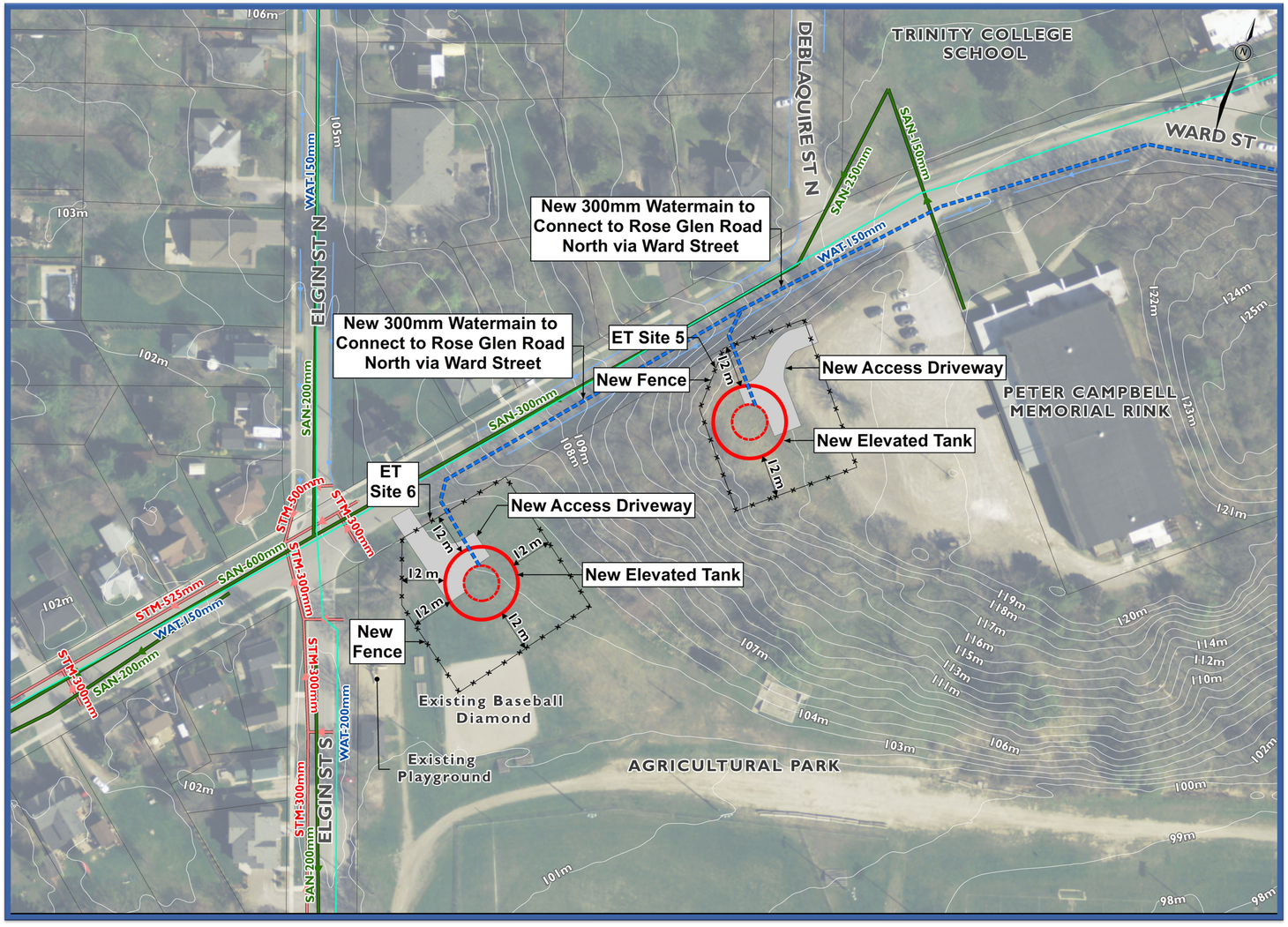
- X Property is not owned by the Municipality
- \+ Located near commercial properties, away from residential areas
- \+ Located close to existing watermain infrastructure

Site 4 - 55 Deblaquire Street North

- X Property is not owned by the Municipality (owned by Trinity College)
- X Currently used as a soccer field
- X Located farther away from existing infrastructure – requires construction of new watermain to connect to existing system

PORT HOPE ZONE 1 ELEVATED TANK

CLASS ENVIRONMENTAL ASSESSMENT



Site 5 – 99 Ward Street

+ Property owned by the Municipality

X Located west of the Peter Campbell Memorial rink parking lot

X Located farther away from existing infrastructure – requires construction of new watermain to connect to existing system

Site 6 – 99 Ward Street

+ Property is owned by the Municipality

X Currently used as a baseball field

X Located farther away from existing infrastructure – requires construction of new watermain to connect to existing system

PORT HOPE ZONE 1 ELEVATED TANK

CLASS ENVIRONMENTAL ASSESSMENT

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Evaluation Criteria and Scoring Approach

Technical / Operational

- Existing Available Infrastructure
- Ground Elevation/ ET Height
- Property Acquisition Requirement

Natural Environment

- Aquatic impact
- Flooding considerations
- Flora and fauna
- Construction impact

Socio-Cultural

- Archeological potential
- Aesthetics / viewshed
- Built heritage impact
- Traffic and noise
- Construction impact

Financial / Economic

- Capital Cost (including land cost)
- Operational and Maintenance Cost

Score	Description
●	Potential impacts **negligible, no mitigation** required. No tree removal. Best performance. Lowest cost. **Most preferred.**
◔	Potential impacts **minor** and can easily mitigated through implementation of **standard** mitigation measures. Limited tree removal. Good performance, lower cost. **Preferred.**
◑	Potential impacts moderate and implementation of a number of mitigation measures required to reduce/eliminate risks. Moderate tree removal. Moderate performance and cost. **Moderately preferred.**
◕	Potential impacts **major**, and implementation of **extensive** mitigation measures required to reduce/eliminate risks. Important tree removal. Low performance, high cost. **Less preferred.**
○	Potential impacts are **significant**, and implementation of **substantial** mitigation measures are required to reduce the risks. Significant tree removal. Poor performance, highest cost. **Least preferred.**

PORT HOPE ZONE 1 ELEVATED TANK

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Evaluation Results

Criteria	Site 1 15 Benson Crescent	Site 2 412 Croft Street	Site 3 200 Rose Glen Road North	Site 4 55 Deblaquire Street North	Site 5 99 Ward Street	Site 6 99 Ward Street
Technical / Operational						
Natural Environment						
Socio-Cultural						
Financial / Economic						
Overall						

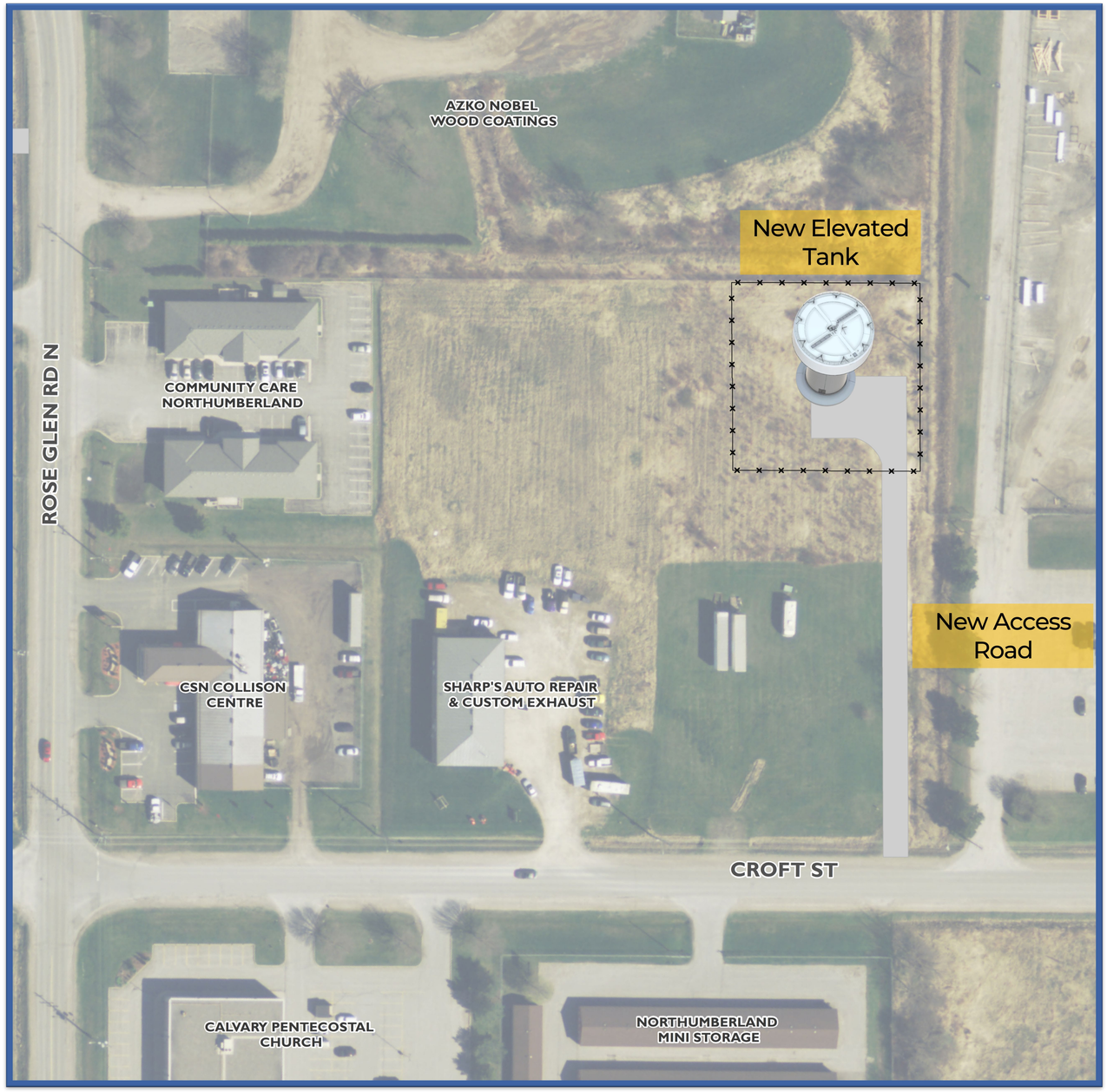
MOST PREFERRED

PORT HOPE ZONE 1 ELEVATED TANK

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PREFERRED SITE: 412 CROFT STREET



- Located within commercial area, away from residential neighborhoods
- Minimal impact to community areas
- Property owned by the Municipality of Port Hope
- Proximity to existing watermain infrastructure
- Lowest capital cost



ELEVATED TANK QUICK FACTS

Type
Composite (concrete pedestal with welded steel container)

Height
~53 m (Fox Rd ET is ~50m)

Storage Capacity
3,000 m^3

PORT HOPE ZONE 1 ELEVATED TANK

CLASS ENVIRONMENTAL ASSESSMENT

STUDY TIMELINE

1) Notice of Study Commencement

September 2023

2) Field Investigations

September to November 2022

3) Evaluation of Alternatives

November 2022 to January 2023

4) Public Information Centre

March 2, 2023

WE ARE HERE

5) Review feedback and comments received

March 2023

6) Confirm preferred solution

March 2023

7) Document findings in a Project File Report

April 2023

8) Notice of Completion

April 2023

9) Start of 30-day review period

May 2023

10) End of review period

June 2023