

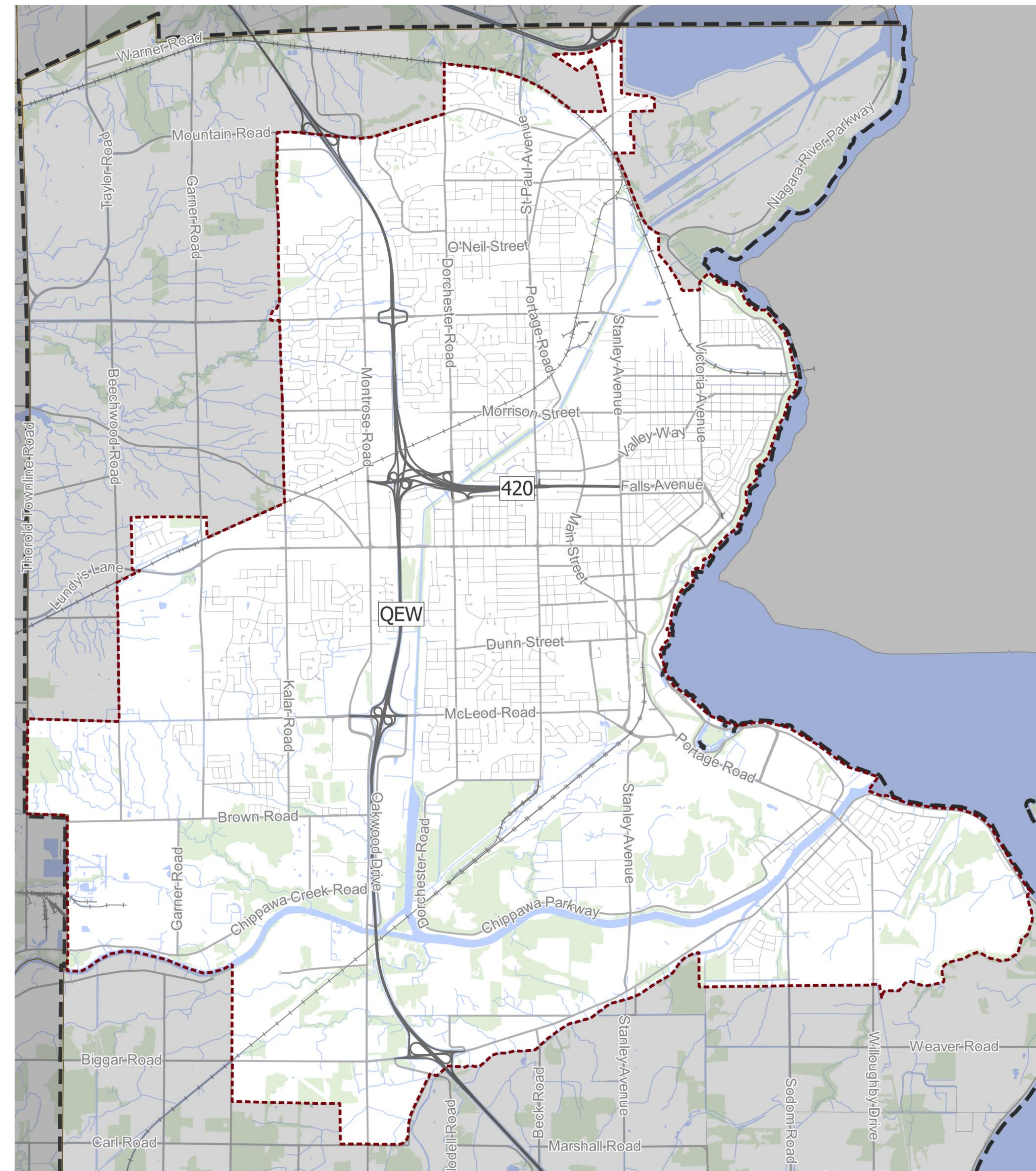
# What is this study about? Background and Study Purpose

The City of Niagara Falls is undertaking a **Master Servicing Plan and Wet Weather Management Strategy** project. This initiative incorporates ongoing planning, management and operations of the City's water, wastewater, and stormwater infrastructure. The intent of this study is to:

- Complete an evaluation of the City's existing infrastructure
- Establish short and long-term visions, strategies, and policies to support the management and enhancement of infrastructure
- Optimize future infrastructure needs, including operation and maintenance improvements, within the City of Niagara Falls through to 2051 and beyond

## Key Strategic Goals:

- ✓ Fulfil the Class Environment Assessment process.
- ✓ Ensure the best use of the existing water, wastewater, and stormwater infrastructure.
- ✓ Plan for water, wastewater, and stormwater infrastructure required to service future growth.





# Why are we here?

## Public Information Centre (PIC) No. 1

### Public Information Centre (PIC) Objectives



Present the study area and objectives.



Present the environmental assessment process.



Present technical background relevant to the development of servicing alternatives.



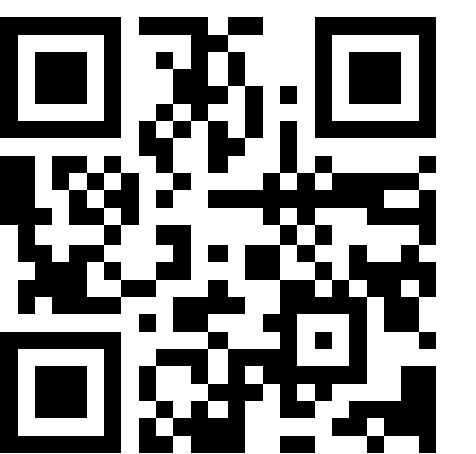
Receive feedback on the study process, and opportunities and constraints.

*This is the first of two PICs for this study.*

### Key Dates

- Notice of Study Commencement – Oct 10, 2023
- **PIC 1 – Dec 14, 2023**
- PIC 2 – Spring/Summer 2024
- Notice of Completion – End of 2024

PIC Materials are available on the project website:  
<https://letstalk.niagarafalls.ca/master-servicing-plan>



### Stay Engaged!

- ✓ Please sign in and take a comment sheet.
- ✓ Have a look at the project information on display and chat with the Project Team.
- ✓ Provide your feedback regarding the information presented.

# How is the study being conducted?

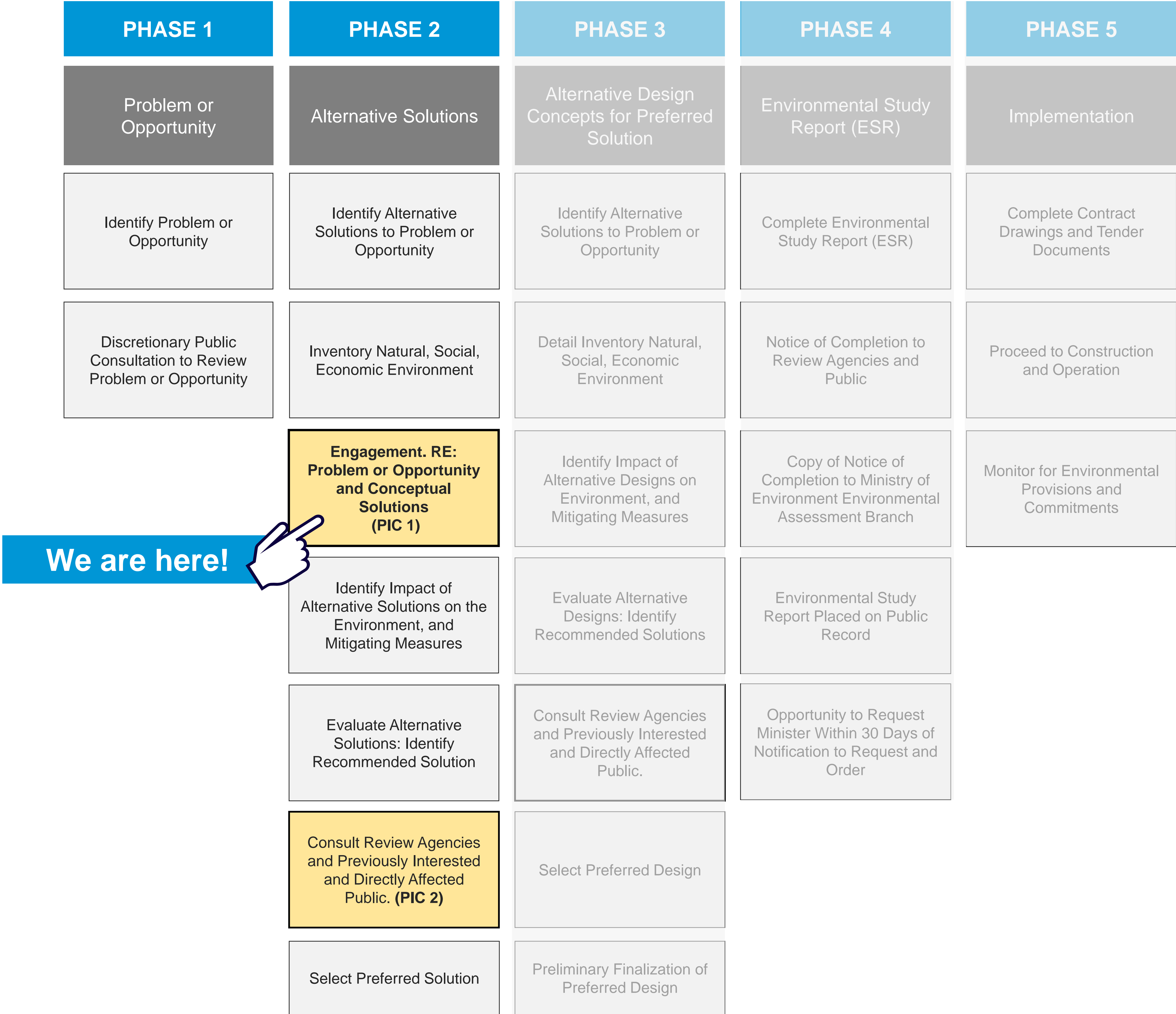
## Municipal Class Environmental Assessment Process



The **Master Servicing Plan and Wet Weather Management Strategy** is being undertaken as a Master Plan under the Municipal Class Environmental Assessment (MCEA) process (October 2000, as amended in 2007, 2011, 2015, and 2023).

The study will satisfy **Phases 1 and 2** of the MCEA process and provide the basis for carrying out follow-up Environmental Assessment Studies for specific components.

This study will hold two Public Information Centres (PICs).



We are here!





Secondary Plans

- Existing City or Region Secondary Plan Areas

Corridor Intensification

- Lands that have been identified as candidate sites for intensification

Passed Residential Development Applications

- Developments which have been approved but not yet constructed

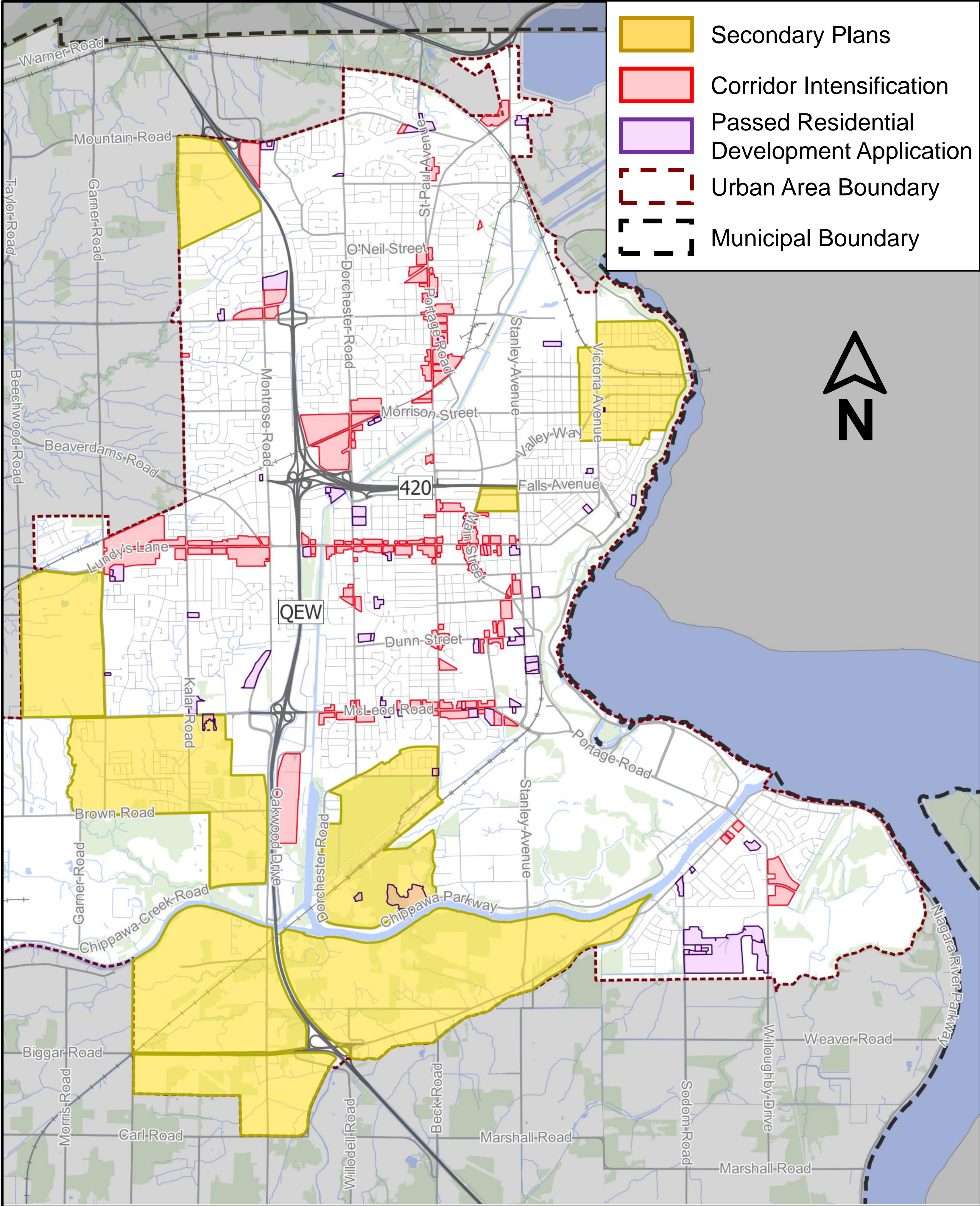
Accessory Dwelling Units

- Secondary units, lot severances, and other localized development

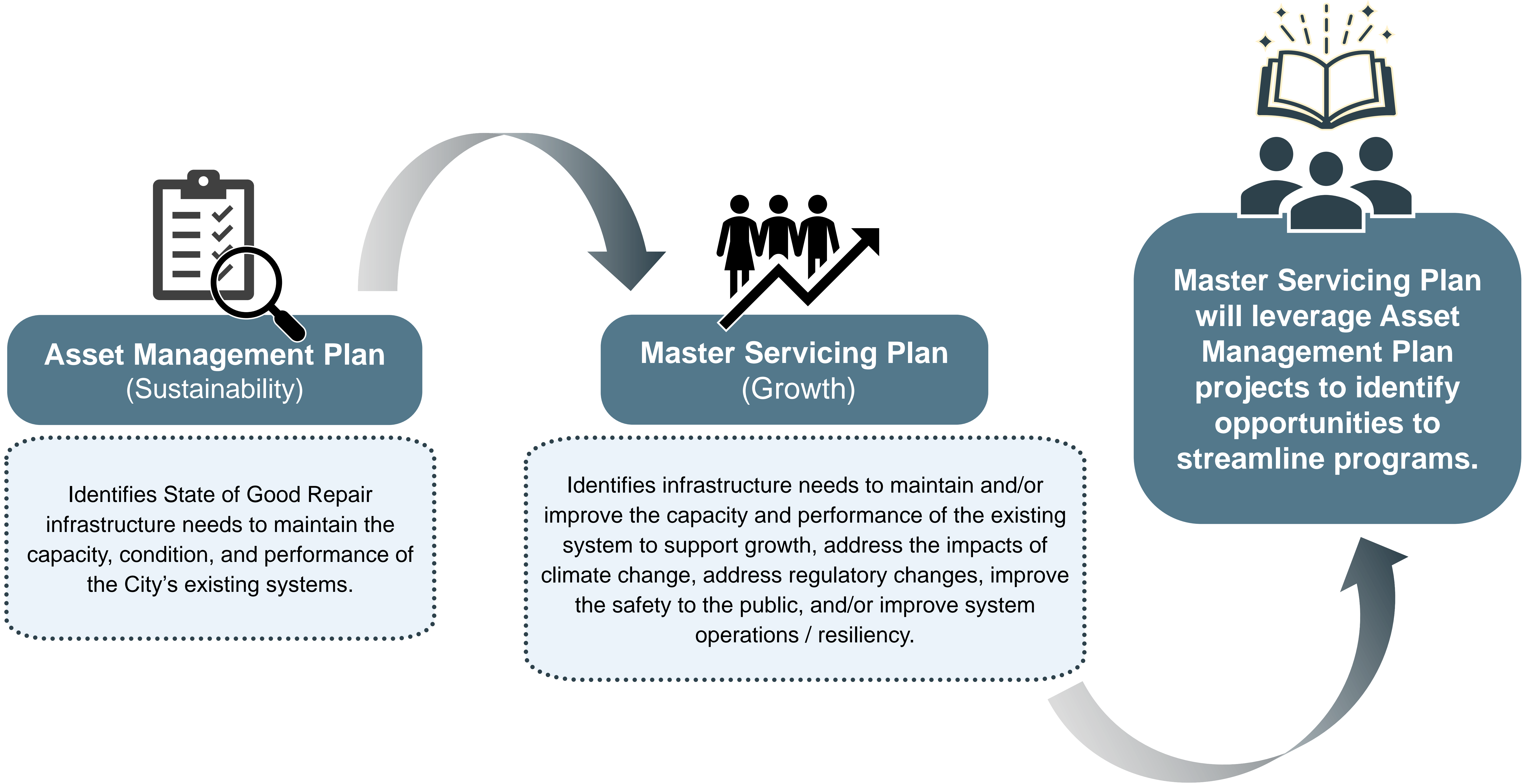
	Existing	2051	2081
Residential	96,720	181,521	239,362
Employment	37,857	73,339	97,574
Total	134,577	254,860	336,936

Focus is on identifying the Water, Wastewater, and Stormwater infrastructure needs to support the City 2051 growth.

Water, Wastewater, and Stormwater infrastructure has a typical lifespan of **50 to 100 years**. Sizing of new infrastructure will consider both 2051 and 2081 growth needs.







	Service Objective	City Assets	Regional Assets
Water Infrastructure	To provide an efficient, sustainable, and a safe water system that meets regulatory requirements, minimizes service disruptions, and is capable of accommodating growth.	<b>Distribution</b> <ul style="list-style-type: none"><li>Local watermains</li><li>Fire hydrants</li><li>Service connections</li></ul>	<b>Treatment</b> <ul style="list-style-type: none"><li>Water treatment plant</li></ul> <b>Transmission</b> <ul style="list-style-type: none"><li>Trunk watermains</li><li>Pumping stations</li><li>Storage facilities (water towers and reservoirs)</li></ul>
Sewer Infrastructure	To provide an efficient, sustainable, and reliable wastewater system that minimizes environmental impacts and is capable of accommodating growth.	<b>Collections</b> <ul style="list-style-type: none"><li>Local sewers</li><li>Local sewage pumping station &amp; forcemain</li></ul>	<b>Treatment</b> <ul style="list-style-type: none"><li>Wastewater treatment plant</li></ul> <b>Transmission</b> <ul style="list-style-type: none"><li>Trunk sewers</li><li>Sewage pumping stations &amp; Forcemains</li></ul>
Stormwater Infrastructure	To provide an efficient, sustainable, and reliable stormwater management system that minimizes environmental impacts and protects public health and property.	<ul style="list-style-type: none"><li>Storm sewers</li><li>Roadside ditches</li><li>Channels and watercourses</li><li>Culverts</li><li>Catch basins</li><li>Stormwater management ponds</li><li>Water quality treatment facilities</li><li>Any other low impact development (LIDs)</li></ul>	<ul style="list-style-type: none"><li>Infrastructure on Regional Roads</li></ul>



## Water Key Issues and Considerations

## Integrating Regional system upgrades and system reconfiguration

## Expansion of the water system to support growth areas

## Supporting intensification within the existing system

## Optimization of existing and future infrastructure

## Integration of watermain replacement program

## Seasonal and tourism demands

## System fire flows

## System high and low pressure

## System resiliency

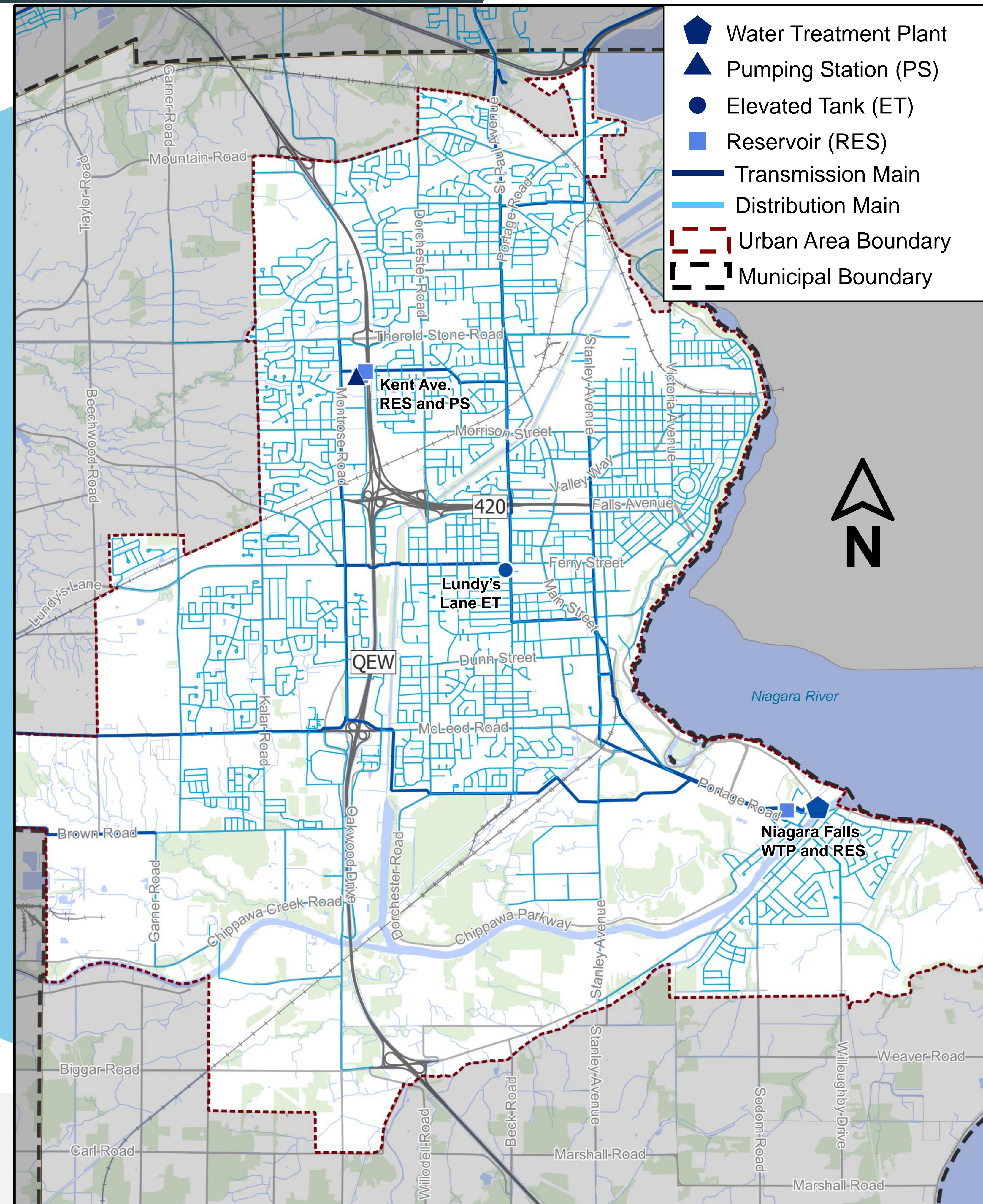
## Social / cultural considerations

## Environmental considerations

## Addressing the impacts of climate change

## Constructability of solutions and construction impacts

## Financial sustainability of program recommendations





# Existing Wastewater System



Integrating Regional system upgrades and system reconfiguration

Expansion of the wastewater system to support growth areas

Supporting intensification within the existing system

Combined Sewer Separations and Replacement Program

Optimization of existing and future infrastructure

Seasonal and tourism demands

Wet weather issues

System basement flooding and overflows

Provincial Environmental Regulations

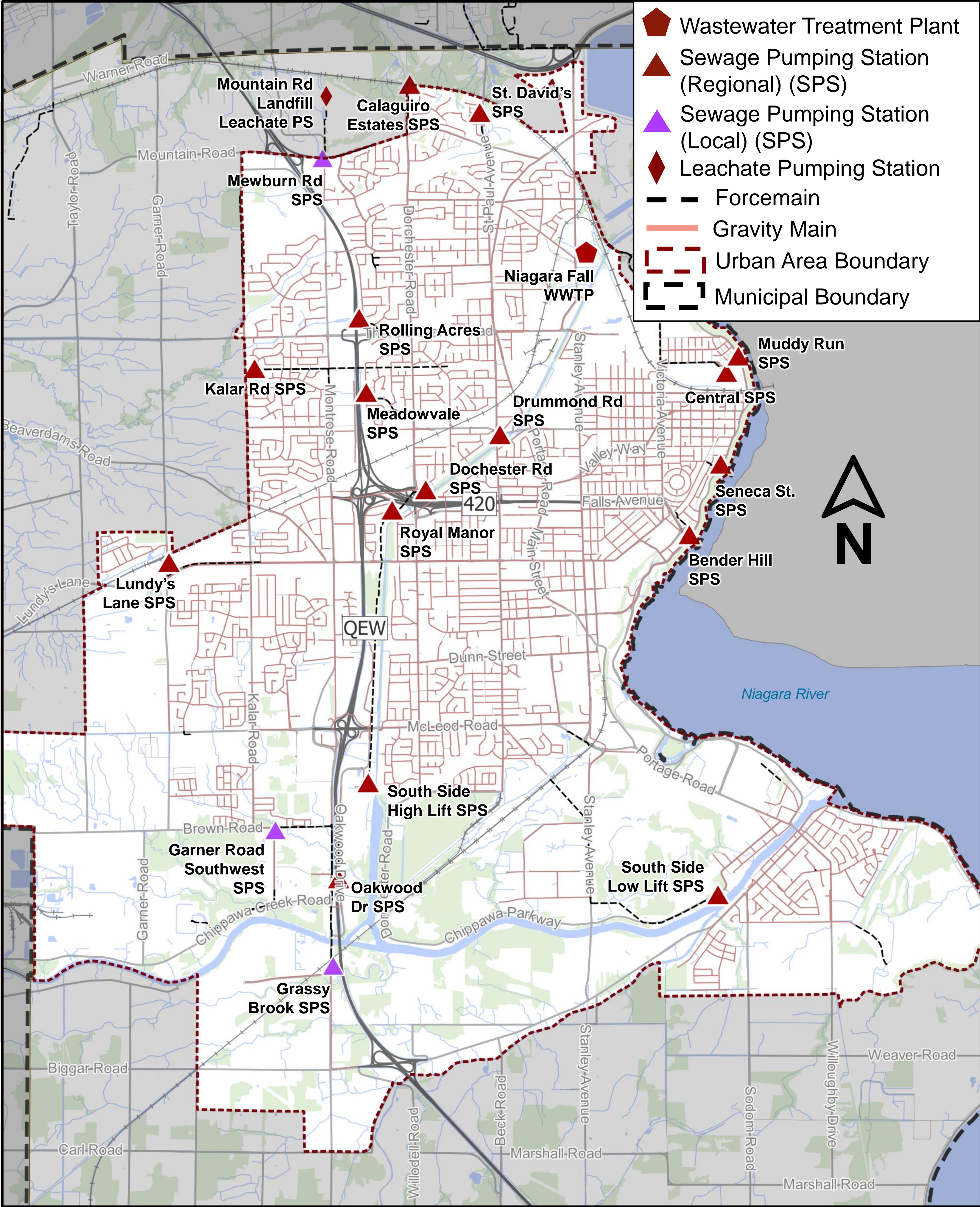
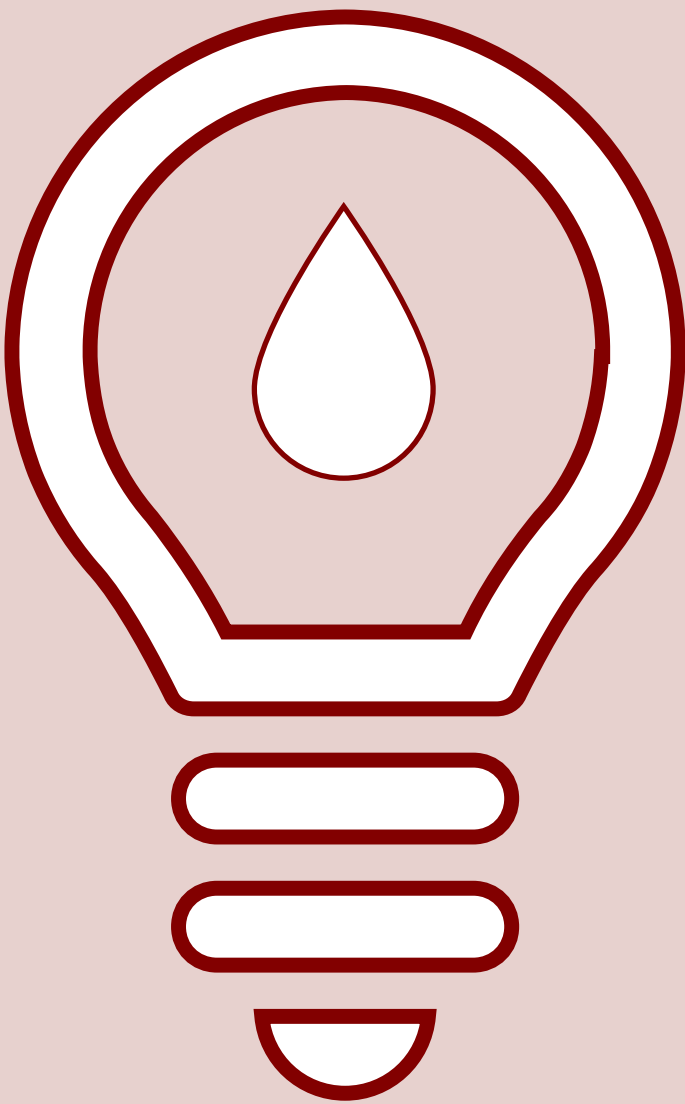
Social / cultural considerations

Environmental considerations

Addressing the impacts of climate change

Constructability of solutions and construction impacts

Financial sustainability of program recommendations





# Existing Wastewater System



Integration of improved stormwater management and quality controls

Expansion of the stormwater system to support growth areas

Supporting intensification within the existing system

Optimization of existing and future infrastructure

Combined sewer separations

Addressing the impacts of climate change

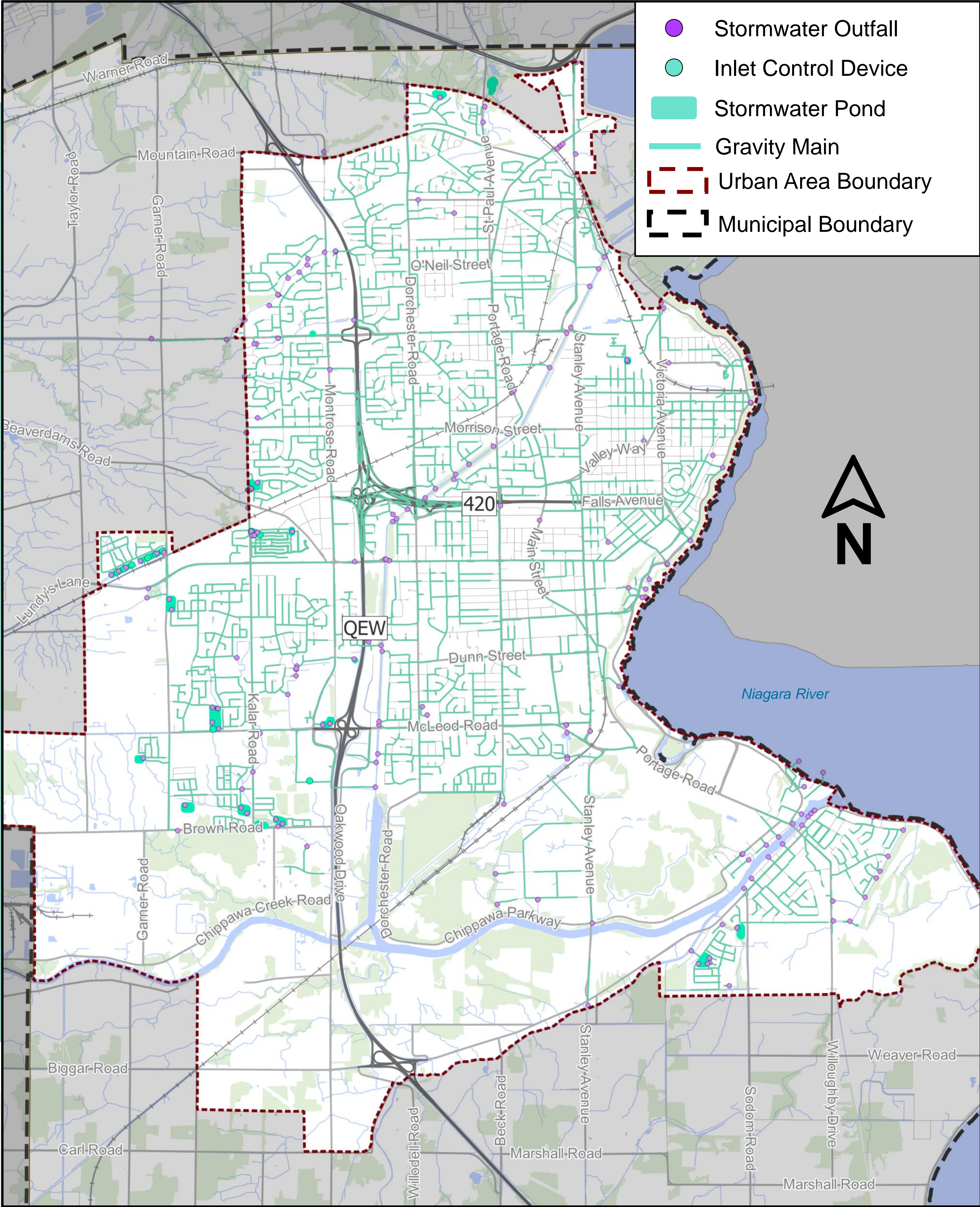
Integration of sewer replacement program

Social / cultural considerations

Environmental considerations

Constructability of solutions and construction impacts

Financial sustainability of program recommendations





## What are we doing next?

- Review and incorporate responses from PIC No. 1
- Investigate alternative water, wastewater, and stormwater servicing strategies and concepts.
- Complete additional supporting technical studies:
  - Hydraulic Modelling Analysis
  - Flow Monitoring and Condition Assessment Program
- Engagement with Indigenous Rights Holders
- Consultation with public review agencies, and other interested stakeholders
- Development of growth scenarios, policies, and alternatives
- Preparation for PIC No. 2
- Final Master Servicing Plan

Do you have any questions, comments, or want to stay up to date?  
Please contact us anytime!

City Contact	Consultant Contact
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Additional project information can be found on the project website:  
<https://letstalk.niagarafalls.ca/master-servicing-plan>

