



Stormwater Servicing Plan for Regional Road Infrastructure

PUBLIC INFORMATION CENTRE NO. 1

Welcome!

The purpose of this Public Information Centre (PIC) No. 1 is to inform you of the study's purpose, project steps, and schedule, and to receive feedback from you on the information presented.

Review the display materials.

Members of the study team are available to answer questions.

Provide your comments in the form provided, as your opinion will influence this study.

Key Themes

Study Process

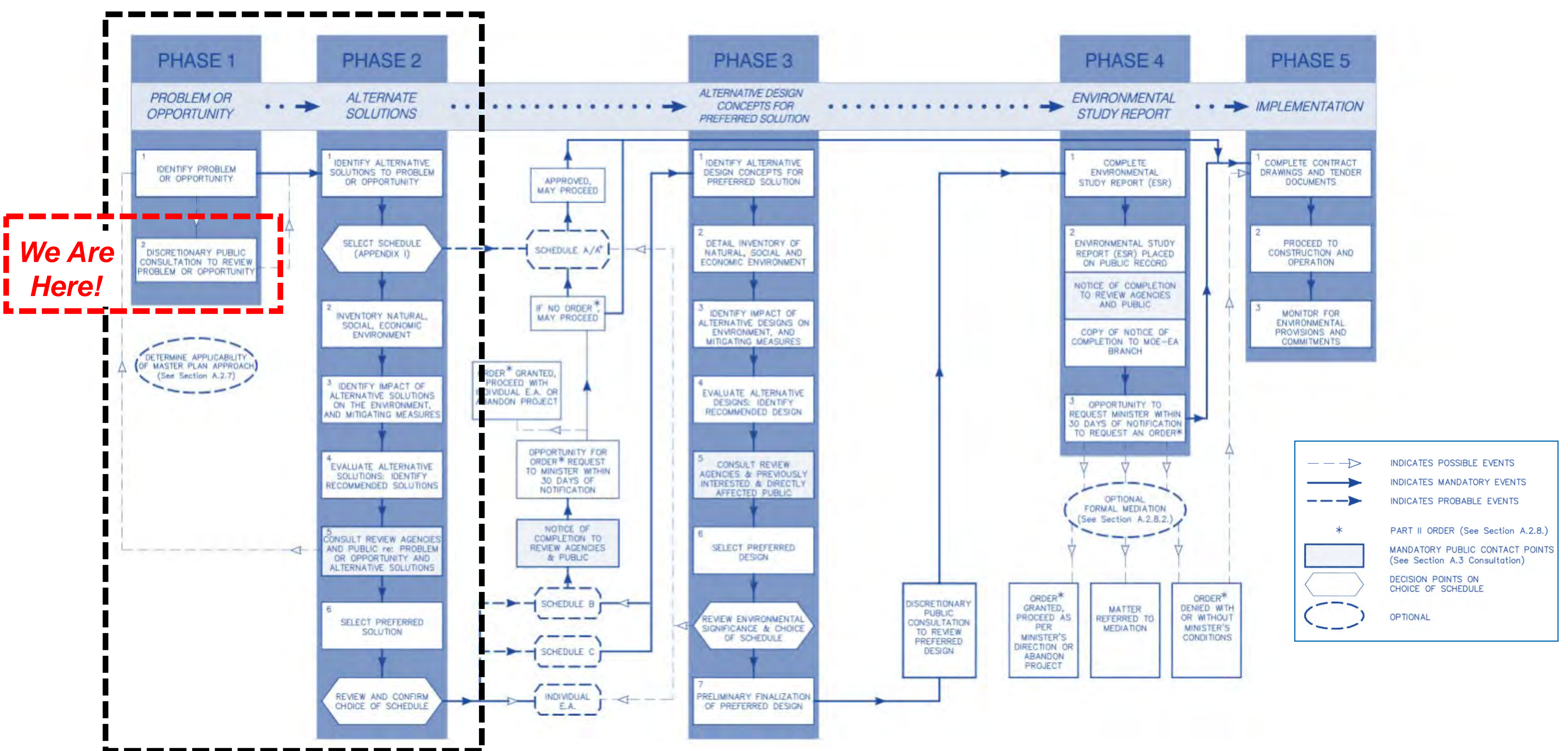
Project Background and Introduction

Preliminary Strategies

Consultation and Engagement

Municipal Class EA Process and Consultation

The scope of this study involves the completion of Phase 1 and Phase 2 of the MEA Municipal Class Environmental Assessment (EA) process. The final Environmental Assessment report will be filed under the MEA Municipal Class Environmental Assessment.



Project Schedule Timeline

Phase 1

Identify and Describe the Problem / Opportunity Statement

PIC NO. 1 *We Are Here!*
Public Consultation
March 25, 2020

Phase 2

Complete Study Area Inventory
Identify and Evaluate Alternative Solutions

PIC NO. 2
Public Consultation / Review
Agency Contact Point
January 2021

Final Report

Documentation of Recommended Alternative Solutions for Stormwater Servicing

Notice of Completion
Summer 2021

Study Purpose and Background

Opportunity Statement

Provide efficient stormwater servicing to existing and future Regional road infrastructure by taking into account existing ageing infrastructure, growth, natural environment, climate change and compliance within regulatory framework.

Project Goals

- Provide a strategic, economical, and optimized stormwater servicing plan that will guide the Region of Peel to 2041.
- Establish the tools and processes necessary to move from an opportunistic servicing approach to a planned, evidence-based servicing strategy.
- As the first plan of its kind for the Region this project will set the stage for future updates and improvements as more information becomes available.

Stormwater services are critical to support the Region's environment and community focused vision.

SAFE

SUSTAINABLE

OPTIMIZED

Guiding Principles and Objectives

Primary Policy Statements

- Minimize, or, where possible, prevent increases in contaminant loads.
- Minimize changes in water balance and erosion.
- Not increase risks to human health and safety and property damage.
- Maximize the extent and function of vegetative and pervious surfaces, and
- Promote stormwater management best practices, including stormwater attenuation and re-use, and low impact development.

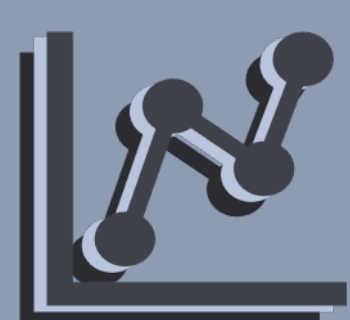
Key Study Objectives

Comprehensive Stormwater Servicing Strategy



Consider the impacts of population growth and climate change, and how to mitigate them.

Develop a Computer Model



Create a stormwater computer model to help assess and evaluate the system for existing, future and climate change scenarios.

Establish Levels of Service



Identify the expectations of stakeholders and community. Establish measurable customer and technical levels of service.

Develop an Optimal Implementation Plan



Identify the cost and timing for specific work to be undertaken to achieve the preferred strategy.

The primary policy statements align with the *Provincial Policy Statement, 2014 (Section 1.6.6.7)*

Study Area

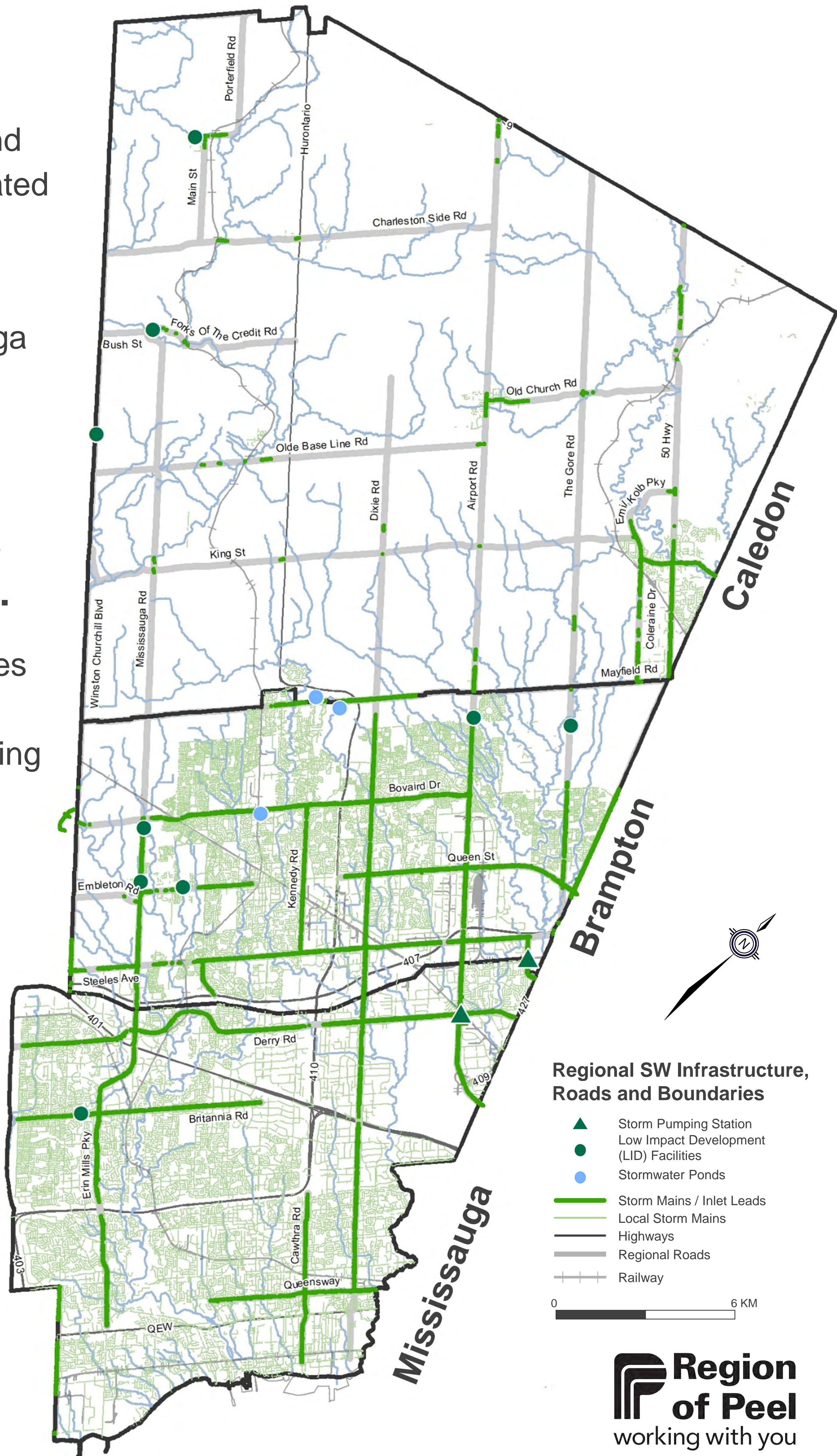
This project will focus on the stormwater infrastructure located within the Regional road right-of-way.

Stormwater infrastructure is a two-tiered system.

- The Region of Peel owns and maintains 26 Regional Roads and all stormwater infrastructure located within the right-of-way.
- The Town of Caledon, City of Brampton and City of Mississauga all have separate stormwater systems to convey rainfall away from their neighbourhoods.

Stormwater charges address lower tier municipal systems.

- There may be stormwater charges where you live but the revenue generated goes towards supporting your local system.
- None of that revenue is spent on the Regional system!



Multiple Bottom Line Decision Making

Environmental impacts

- Quality of stormwater entering the environmental features and protected areas.
- Potential effects on water resources, natural features and flooding considerations
- Geology, hydrogeology, geotechnical considerations.



Social and cultural impacts

- Existing and surrounding land use.
- Noise, odour and flooding considerations.
- Cultural heritage resources.
- Archeological resources.



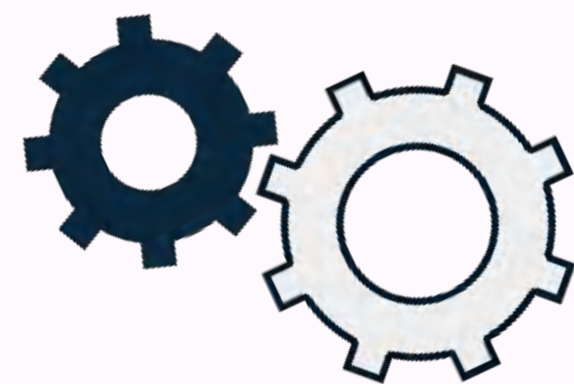
Evaluating the Options

With input from the public and key stakeholders, the project team will develop and use criteria to evaluate options for the stormwater servicing strategies.



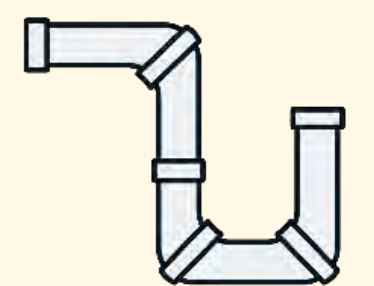
Site suitability

- Existing infrastructure.
- Potential impact on surrounding area.
- Land use, land size, availability and location.
- Ownership, legal and jurisdictional considerations.



Technical servicing considerations

- Ability to meet future needs.
- Minimize need for system upgrades.
- Ease of integration with existing system.
- Ease of construction and operation.

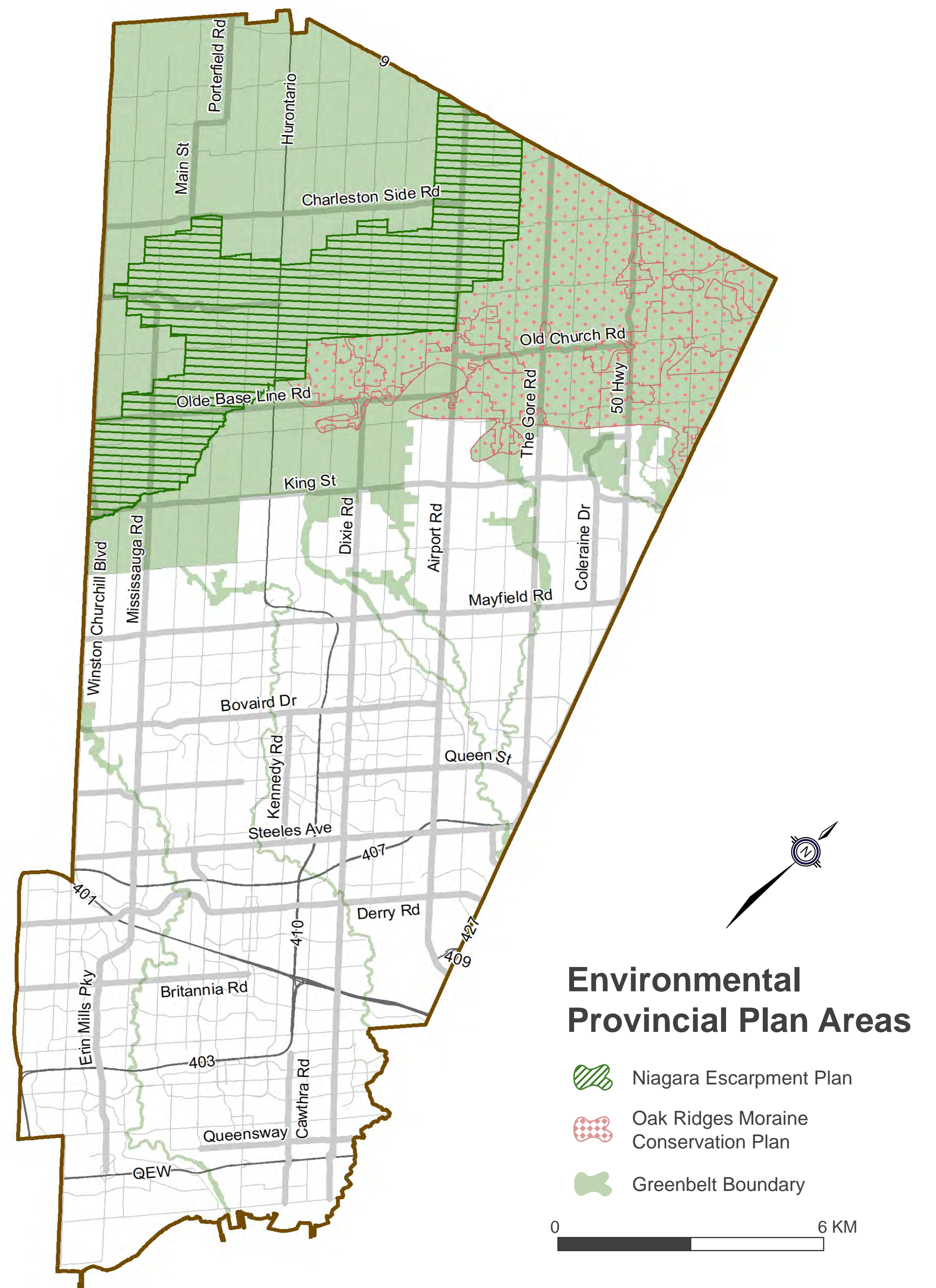
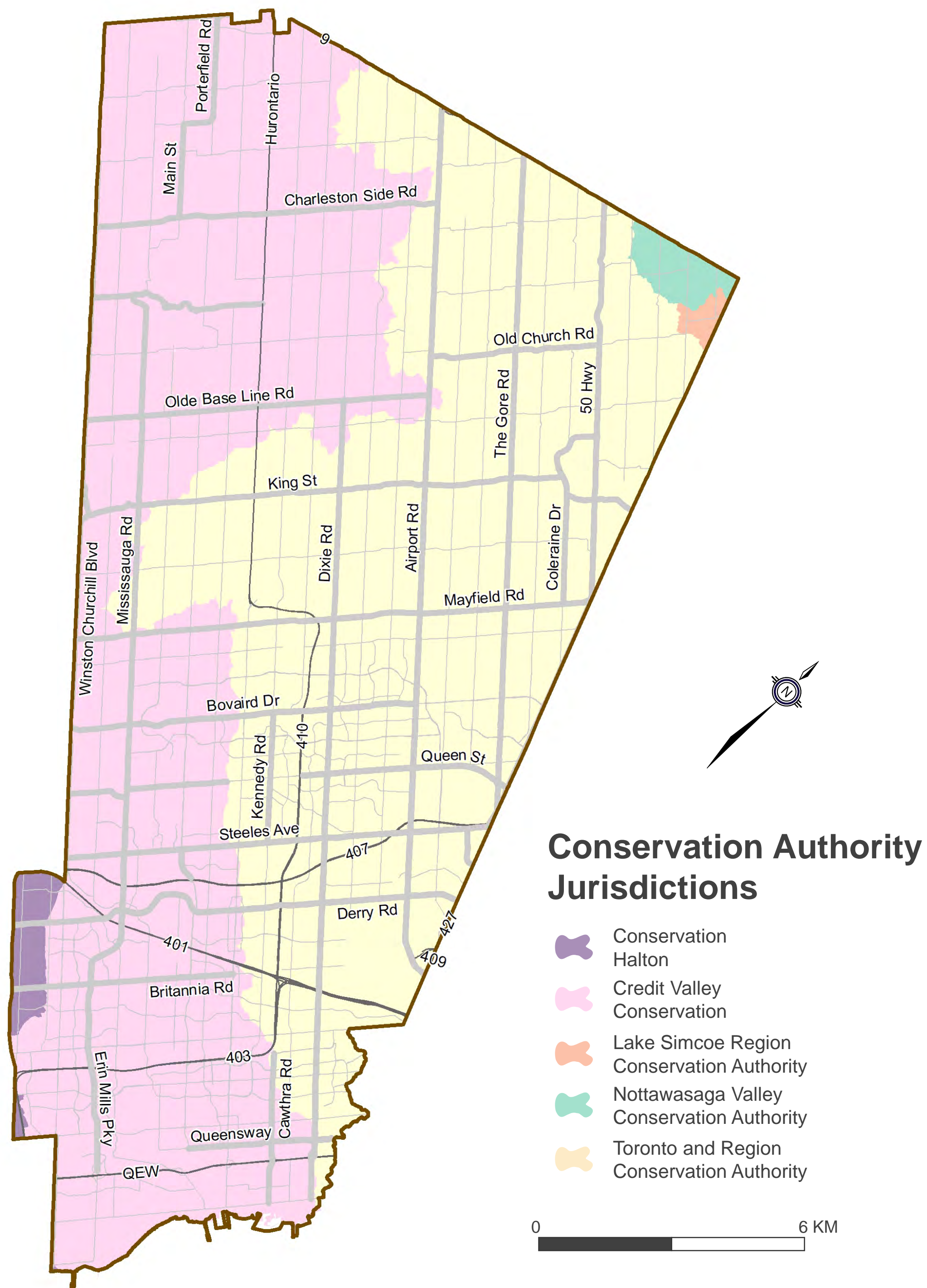


Economic

- Cost effective solution.
- Operation and maintenance costs.
- Lifecycle considerations.
- Funding and finance.

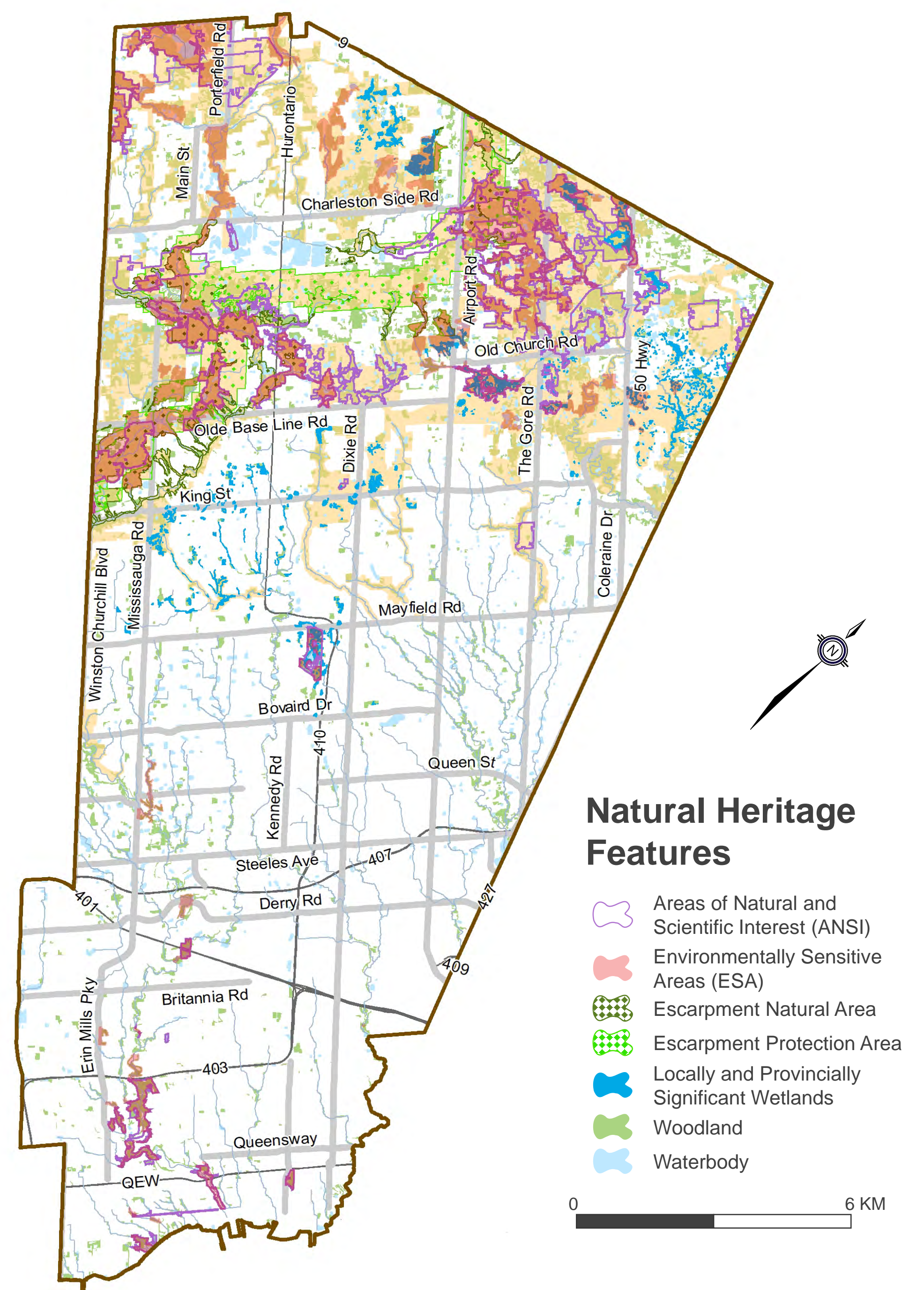


Natural Environment



Technical studies to be completed

- Baseline Natural Environment Assessment
- Flood Plain and Geomorphology
- Hydrogeological and Geotechnical Assessment
- Stage 1 Archaeological Assessment
- Agricultural Impact Assessment
- Social Impact Assessment
- Cultural and Built Heritage Assessment
- Property Impacts
- Stage 1 Environmental Site Assessment



Opportunity and Constraints

Optimize maintenance of existing stormwater structure such as Low Impact Developments (LID)



Opportunity for new LID implementation on Regional roads as growth and greenfield development occurs

Opportunity for integration with Long Range Transportation Plan



Maintain or enhance water quality in environmentally sensitive areas



Explore potential to integrate LID features with multi-use sidewalks and trails

Opportunity to turn stormwater structures into a community benefit



Opportunity to enhance collaboration between asset owners

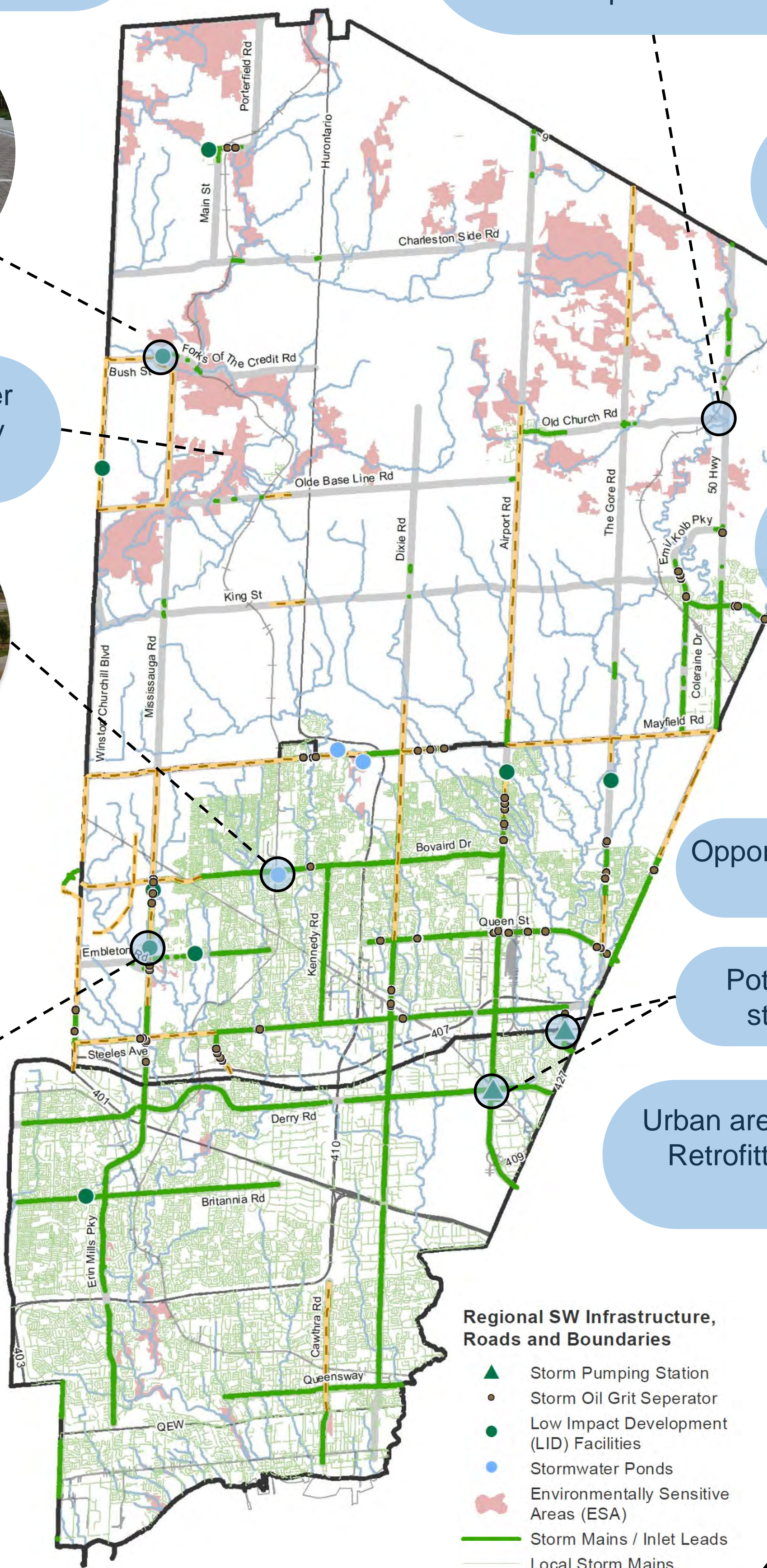
Potential opportunity to optimize stormwater pumping stations

Urban areas present space restrictions. Retrofitting LID opportunities will be explored

Capacity assessment of existing assets will inform future needs

Opportunity to integrate growth and renewal needs

Opportunity to identify and fill data gaps and improve data confidence



Regional SW Infrastructure, Roads and Boundaries

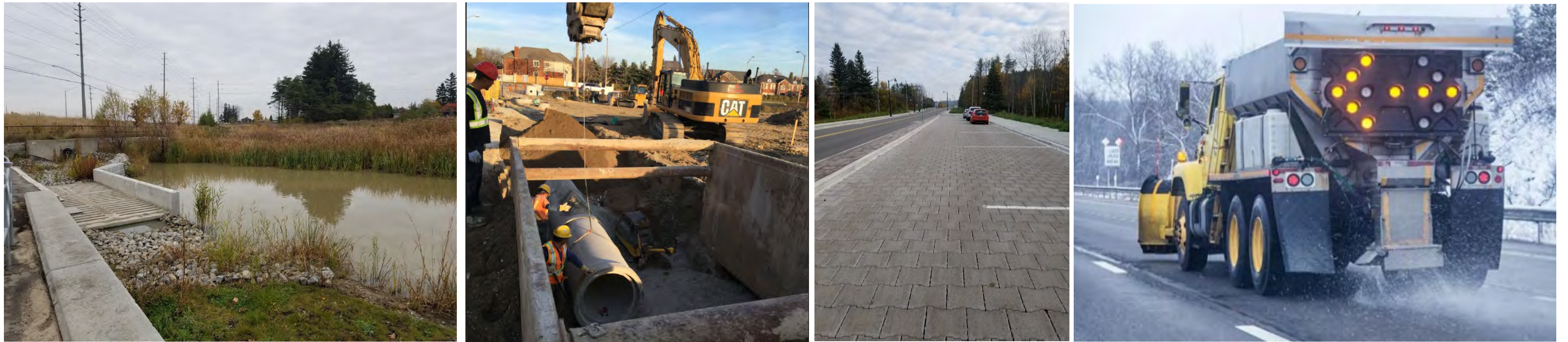
- ▲ Storm Pumping Station
- Storm Oil Grit Separator
- Low Impact Development (LID) Facilities
- Stormwater Ponds
- Environmentally Sensitive Areas (ESA)
- Storm Mains / Inlet Leads
- Local Storm Mains
- Road Projects
- Highways
- Regional Road
- Railway

0 6 Kilometers

Preliminary Servicing Concepts

Strategies or solutions may include:

- Low Impact Development (LID) practices for water quality and flooding control;
- Modify operating practices (including street sweeping, salting, catch basins cleanouts, pond dredging, etc.); and
- Reconstruct portions of the system with larger storm sewers to increase overall system capacity during uncommon heavy rainfalls.



Low Impact Development (LID):

- Infrastructure that mimics natural processes that result in the infiltration, evapotranspiration or use of stormwater in order to protect water quality and associated aquatic habitat.
- The Region has implemented 9 LID facilities and have more in the design and planning phase!



Changing the attitude of stormwater management

A service-based perspective helps promote stormwater management as community benefit.

We Want to Hear From You!

How to Stay Involved

- Visit our website:
<http://rop.dev.peelregion.ca/pw/transportation/residents/sw-road-infrastructure.asp>
- Follow us on social media:
www.facebook.com/regionofpeel and www.twitter.com/regionofpeel
- Attend Public Information Centre (PIC) No. 2.

Get Engaged!



Please fill out the comment sheet to let us know your thoughts. Your feedback will be used to help inform the decision-making process.

Comments may include:

- What do you believe is the most important outcome of this study?
- “I believe this study will be a success if _____.”
- Which considerations are most important to you?

Please leave your comments here
Thank You for Participating!

Contact us at any time if you have any questions or comments about the study.

Stay Involved by checking the box below

I would like to receive future updates about this project

Check out our social media

Syeda Banuri, M.Eng., P.Eng.
Project Manager
Regional Municipality of Peel
10 Peel Centre Drive, 4th Floor Suite B
Brampton, ON L6T 4B9
905-791-7800, EXT. 4052
syeda.banuri@peelregion.ca

With the exception of personal information, all comments will become part of the public record of the study. The study is being conducted according to the requirements of the Municipal Class Environmental Assessment, which is a planning process approved under Ontario's Environmental Assessment Act.

Please leave your comments in the box below

Contact Information

First and Last Name: _____

Organization (if applicable): _____

Address / E-Mail: _____

Date: _____

Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. All comments received will become part of the public record and may be included in the study documentation prepared for public review.

Please Stay Engaged

Thank You for Participating!

Following this Public Information Centre, the project team will:

- Review and consider your input received during and following the PIC.
- Develop and evaluate the preliminary Stormwater Servicing Strategies.
- Host PIC 2 in early 2021 to present the preliminary preferred strategy.

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

Syeda Banuri, M.Eng., P.Eng.
Project Manager

Regional Municipality of Peel
10 Peel Centre Drive, 4th Floor Suite B
Brampton, ON L6T 4B9
905-791-7800, EXT. 4052
syeda.banuri@peelregion.ca

**James Jorgensen, B.SC., C.WEM,
C.ENV, MIAM**

GM BluePlan Engineering
3300 Highway No. 7, Suite 402,
Vaughan, ON, L4K 4M3
416-703-0667 EXT. 7209
james.jorgensen@gmblueplan.ca



Please note that information related to this study will be collected in accordance with the *Freedom of Information and Protection of Privacy Act*. All comments received will become part of the public record and may be included in the study documentation prepared for public review.