Water Enhancement Program

WAT24001
WAT25001
WAT25002
WAT22002

AS PART OF THE TAY TOWNSHIP 2025 CAPITAL BUDGET

OPERATIONAL SERVICES



Project Summary

The 2025 Watermain Enhancement Program is a significant project aimed at upgrading the water infrastructure across various locations.

Locations:

- Alberta Street Watermain Replacement
- Second Avenue Watermain Replacement
- Fifth Avenue Sanitary Works & Watermain Replacement – *carry over from 2024*
- Hayes Street Sanitary Works and Watermain Replacement – *carry over from 2024*
- Elizabeth Street Watermain Replacement
- McPhee Boulevard Watermain Replacement
- Franklin Drive Watermain Replacement

Project Overview:

- Approximately **1.3 kilometers** of watermain were replaced with PVC watermain.

Purpose and Benefits:

- Improved Water Quality: Replacing aged watermains help reduce the risk of leaks, contamination, and service interruptions, ensuring a more stable and safe water supply.
- Infrastructure Upgrades: The project is part of a larger effort to modernize the community's water infrastructure, providing long-term improvements to both residential and commercial water services.

Why do we replace cast iron watermains to PVC watermains?



An existing cast iron main removed and replaced with PVC



An existing PVC main

Alberta Street/Second Avenue

WAT24001 – Watermain Replacement Program

The watermain replacement project on Alberta Street was an essential upgrade to the area's water distribution system. This replacement project is a key part of the ongoing infrastructure improvement efforts in the area.

Location: *Alberta Street - from Fifth Avenue to First Avenue; and Second Avenue – from Alberta Street to Wardell Street*



Project Timeline and Details:

- Start Date: October, 2024
- Completion Date on Alberta Street: December, 2024
- Completion Date on Second Avenue: April, 2025
- Paving Date: September, 2025 *as part of the 2025 Roads Improvement Program*



Paving completed on Alberta Street

Watermain Replacement work:

- Approximately 700m of new 150mm PVC watermain
- 10 new services with curb stops
- 13 new main valves
- 5 new hydrants and hydrant valves
- Pressure testing and chlorination



Road work:

- New road base with Granular A and Limestone Crusher Run
- Asphalt surface

Restoration work:

- Ditching – clearing and redefining
- Clearing existing culverts
- 1 new cross culvert across Alberta Street and Second Avenue
- Shouldering

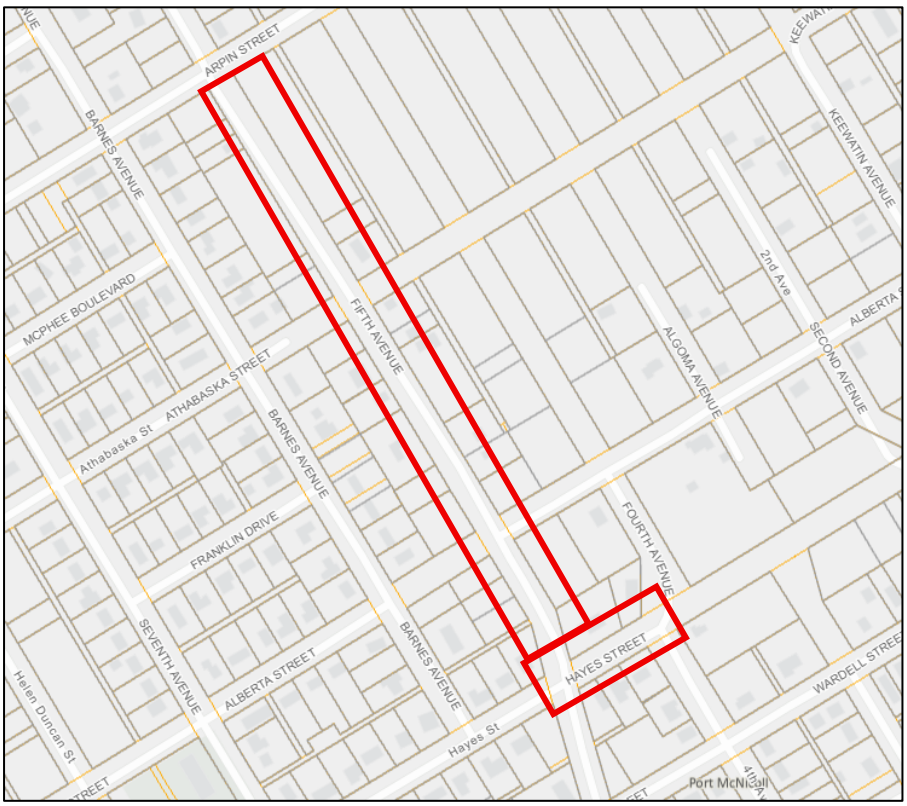
Fifth Avenue/Hayes Street

WAT24001 – Watermain Replacement Program

The watermain replacement along with a new 200mm sanitary sewer and storm works on Fifth Avenue, is an important infrastructure improvement project aimed at enhancing the water system.

<u>Location:</u> Fifth Avenue from Arpin Street to Hayes Street; and Hayes Street from Fifth Avenue to Fourth Avenue

<u>Work Completed:</u> Approximately 610 meters of the existing watermain was replaced with a 150mm PVC watermain, improving the durability and efficiency of the water distribution system

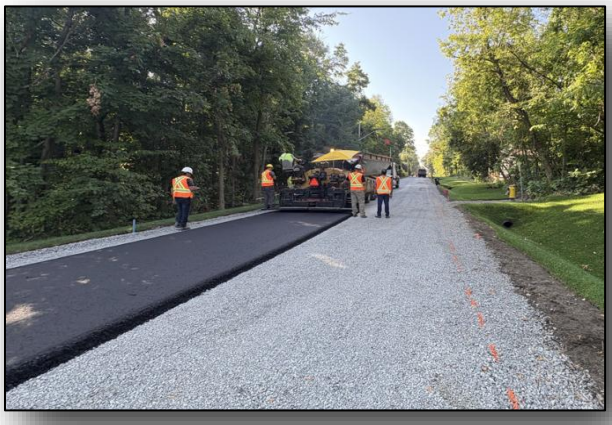


<u>Project Timeline:</u>

- Start Date: October, 2024
- Completion Date: June, 2025
- Paving Date: August, 2025

<u>Watermain Replacement:</u>

- New 150mm PVC watermain
- 44 new services with curb stops
- 5 new hydrants
- Connection to the Athabaska Street 300mm feeder watermain
- Connection to the new Alberta Street watermain
- Pressure testing and chlorination



Sanitary Installation Work:

- New 200mm PVC sanitary main
- 44 new sanitary laterals
- 7 new maintenance holes



Restoration Work:

- Paving
- Ditching
- Shouldering
- 6 driveway culvert replacements
- Sodding



Fifth Avenue at Alberta Street - May 2025



Fifth Avenue at Alberta Street – August 2025

Elizabeth Street/Queen Street

WAT25001 – Watermain Replacement Program

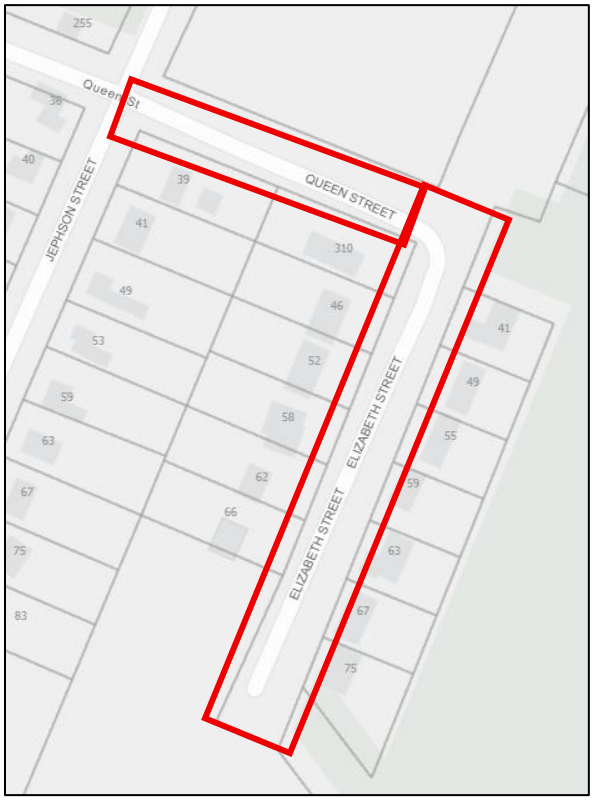
The watermain replacement work on Elizabeth Street was an important enhancement to the water network. This project replaced an existing 150mm cast iron main originally installed in 1979, with a 150mm PVC watermain.



Location: Elizabeth Street – from Queen Street to End Limit; Queen Street – from Elizabeth Street to Jephson Street.

Project Timeline:

- Start Date: July, 2025
- Completion Date: August, 2025
- Paving Date: September, 2025



Watermain Replacement Work:

- Approximately 300m of new PVC watermain
- 14 new water services with curb stops
- 4 hydrant replacements

Restoration Work:

- Paving – as part of the 2025 Roads Improvement Program
- Ditching and hydro seeding
- Shouldering
- Improvements to the drainage at the turnaround

McPhee Boulevard

WAT25001 – Watermain Replacement Program

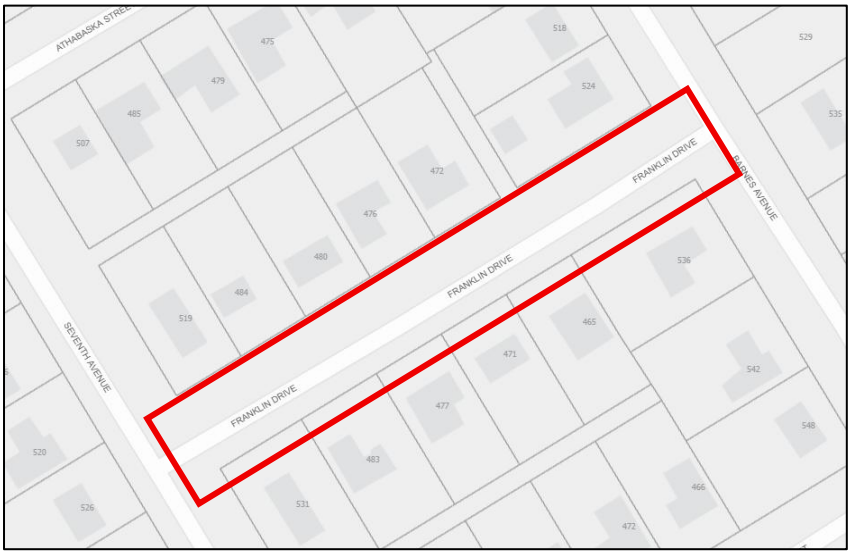
The watermain replacement on McPhee Boulevard included approximately 150m of new PVC in replacement of old cast iron from Seventh Avenue to Barnes Avenue. The work included 14 new services with curb stops, 2 hydrant replacements, and 2 valve replacements.



Franklin Drive

WAT25001 – Watermain Replacement Program

The watermain replacement on Frankin Drive included approximately 150m of new PVC in replacement of old cast iron. The work included 10 new services with curb stops, 2 hydrant replacements, and 2 valve replacements.



BUDGET SUMMARY

- 2025 Capital Budget: $2,535,750
  - WAT24001
  - WAT25001
  - WAT25002
  - WAT22002

- 2025 Actual Year to Date Cost: $2,117,777
  - WAT24001
  - WAT25001
  - WAT25002
  - WAT22002