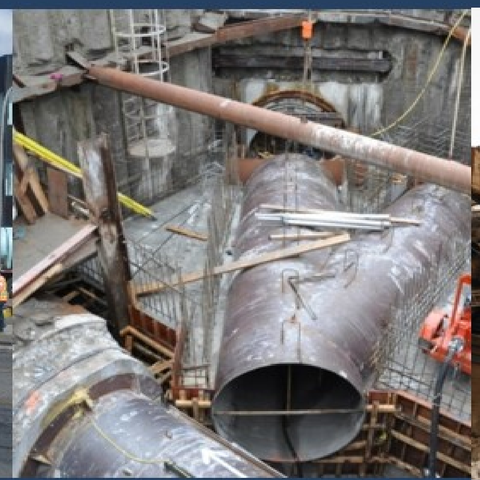
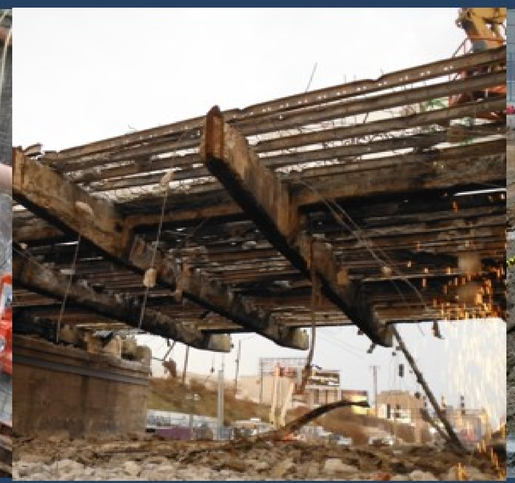
Thorncrest Village Neighborhood Improvements

Spring 2019 Update

Updated May 2019

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Agenda

- Project Background and Recap of Completed Activities
- Basement Flooding Protection Program Ongoing and Future Works
- Local Road Resurfacing Ongoing and Future Works
- Green Infrastructure
- City Contact

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Project Overview

Over the next few years, the City of Toronto plans to deliver neighbourhood improvement projects in Thorncrest Village that include:

- Basement Flooding Protection Program (BFPP) works*;
- Road Resurfacing; and
- Green Streets Infrastructure installations.

Note: * Also includes the delivery of state of good repair sewer and watermain works.

Project Background BFPP

Basement Flooding Protection Program (BFPP):

- A Basement Flooding Municipal Class Environmental Assessment Study for this area was completed in 2012 with recommended upgrades to sanitary and storm sewers on several streets within Thorncrest Village to reduce the risk of future flooding.

- In July 2013, the City of Toronto experienced a large storm event which resulted in flooding in Thorncrest Village.

- Design studies of the upgrades were underway from 2016 to 2018, with construction planned in 2019.

- A Public Information meeting was held on February 27, 2018 to present the planned works. Residents raised concerns that the July 2013 event was not considered in the Environmental Assessment (EA) and Design Studies. To address the extent of flooding experienced, the residents advocated for additional analysis.

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Project Background BFPP cont'd…

Basement Flooding Protection Program (BFPP):

- To determine the need for additional analysis and implementation of the planned works, the City developed and issued a Basement Flooding Questionnaire from June to August 2018.

- Review and analysis of questionnaire responses showed overland/surfacing flooding issues which were not identified in the EA Study.

- As a result of the Questionnaire, the City deferred the planned BFPP works and initiated the Thorncrest Village Investigative Flooding and Modelling Study in October 2018.

Project Background Local Roads

Local Roads:

- Several roads are in need of resurfacing, this work involves replacing the asphalt and restoring ditches / culverts as needed.
- The roads listed below were part of a tender that was awarded in 2018 that also included Palace Arch Drive and Prince George Drive. Due to a delay in receiving locates from the utility companies, the work was deferred from fall 2018 to spring 2019.

The following roads will be resurfaced beginning in May 2019:

- **Plumbstead Court -** Sir Williams Lane to Plumbstead Court Cul-De-Sac
- **Pheasant Lane -** Rathburn Road to Pheasant Lane
- **The Wynd -** Rathburn Road to Thorncrest Road
- **Northolt Court -** Islington Avenue to Northolt Court Cul-De-Sac
- **Sir Williams Lane -** Twyford Road to Plumbstead Court
- **Sir Williams Lane -** Thorncrest Road to Thorncrest Road

Stakeholder Outreach Recap

DATE	ACTIVITY
February 27, 2018:	A Public Information event for the community was held at the Thorncrest Village Clubhouse
April 4, 2018:	Councillor Campbell and staff from ECS met with the Thorncrest Neighbourhood Association at the Thorncrest Village Clubhouse
June 4, 2018:	Councillor Campbell and Managers from Toronto Water and the Basement Flooding team visited the site and walked through with residents
June to August 2018:	The City distributed 287 Basement Flooding questionnaires to the community
September 2018:	The City distributed a Construction Notice about the planned local road resurfacing works would begin in Mid-October 2018, and that BFPP work would be deferred and start date would be contingent on the Study, scheduled to be completed in 2019
November 2018	The City distributed the General Community Update and Common Questions Document
March 2019	The City mailed letters to select properties on The Wynd, Sir Williams Lane and Pheasant Lane about how to prepare for ditch restoration work planned with road resurfacing in spring 2019

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BFPP Ongoing Works

Thorncrest Village Investigative Flooding and Modelling Study Timelines**subject to change

Activity	Timeline for Completion
Part A – Initial Desktop Investigation ✓ Review Background Information, Including Toronto Water Data, and LiDAR elevation data ✓ Review Recently Completed Questionnaires and Historical Flooding Records ✓ CCTV Video Review and Summary ✓ Undertake Initial Desktop Investigation ✓ Create Geodatabase for Part A Data ✓ Prepare and Submit Final Desktop Investigation Memorandum Based on City Comments	**Completed at the end of February 2019**
Part B – Modelling of Existing System and Future Conditions ✓ Modelling Work Plan ✓ Data Collection, Processing, and Updating of Elevation Data ✓ Develop 1D2D Model (Existing and Proposed Scenarios and Solutions) ✓ Create Geodatabase for Part B Data ✓ Identify possible sewer system improvements ✓ Prepare and Submit Final Study Report	**Consultants will submit report to City Staff in June 2019**
City Staff review Part B ✓ Confirm next steps	**Provide update to residents mid-July 2019**

BFPP – Future Works

What could happen after the Study?
Possible Outcomes:

A. If the analysis confirms that the previously planned construction works are all that is required, the City will move forward with tendering and construction. City timelines for the procurement of a construction contractor and to start construction are approximately 9 months.
B. If the analysis identifies that ***additional and/or different*** sewer system improvements are required, City staff will confirm if an Environmental Assessment (EA) Addendum or easements ***may*** be required. For example: solutions outside of the City's right-of-way could trigger the need for an EA Addendum or an easement. Timeline for an EA Addendum process can be between 3 to 6 months and timing to secure an easement is not defined.

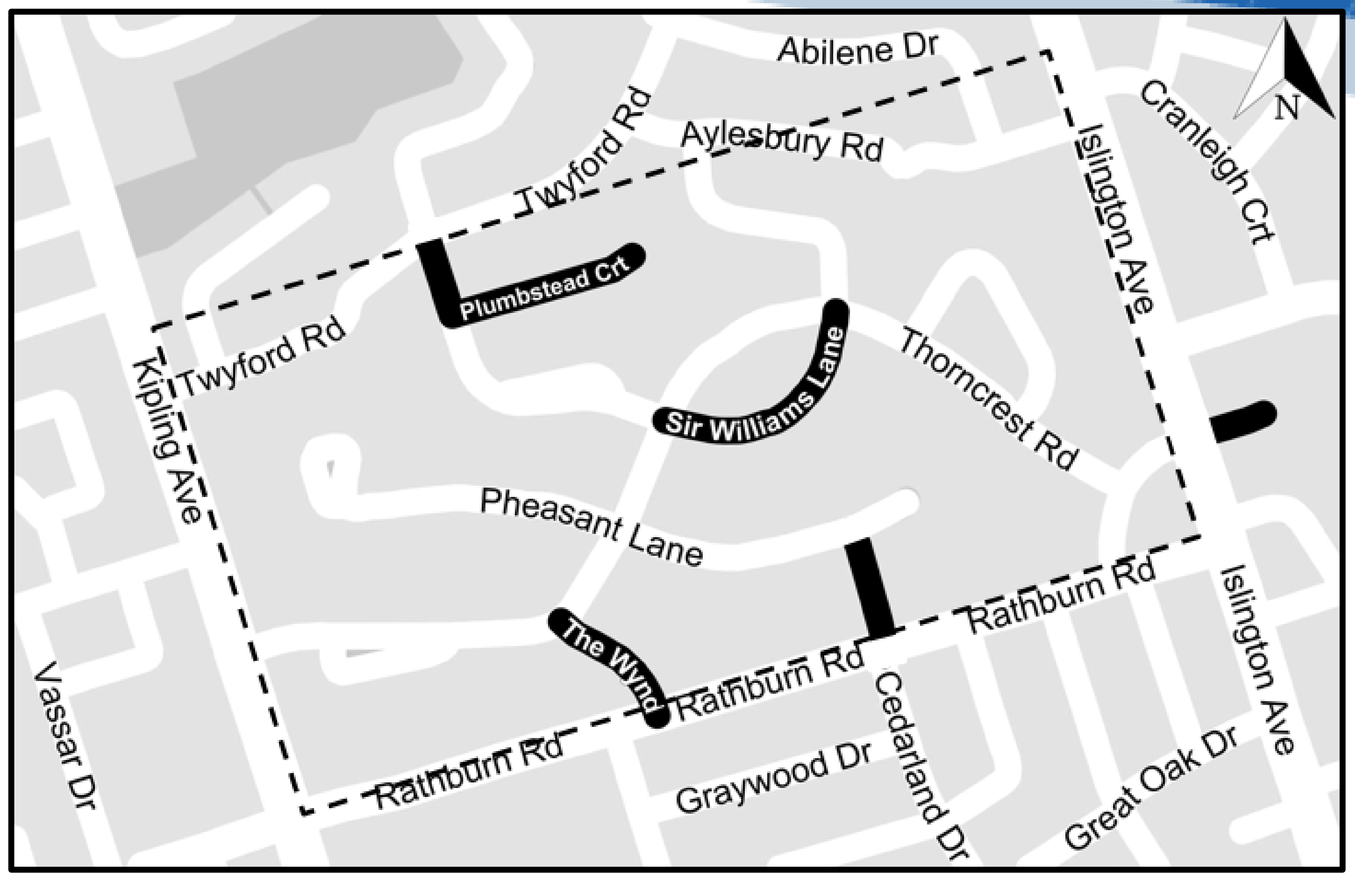
BFPP Future Works cont'd…

i. If an EA Addendum is not required, as part of the design process, the City will evaluate the improvements cost against the City-Council-adopted Cost per Benefitting Property (CPBP) threshold of $32,000. If the threshold is exceeded, the BFPP works cannot proceed and would be added to the Toronto Water State of Good Repair list.
ii. Upon confirmation that the City-Council threshold is met, the design process will proceed to completion and a construction contract to implement the improvements will be issued. City timelines for design, procurement and start of construction are approximately 1.5 to 2 years.

Local Road Resurfacing Ongoing and Future Works

- Road resurfacing is underway on the following roads (see map): Plumbstead Court, The Wynd and sections of Pheasant Lane and Sir Williams Lane.

- There are other Local Road works that will be part of a second contract. Information about the second contract will be provided in mid-July.



Green Infrastructure

What is a Green Street?

- A Green Street is when a road or street incorporates green infrastructure. Green infrastructure includes trees, native plants, and low impact development (LID) stormwater technologies which allow stormwater to infiltrate, filter, store, evaporate, and slow down runoff. Examples of LID include bioswales, rain gardens and bioretention cells.

What are the benefits of Green Infrastructure?

- Improved air quality
- Increased tree canopy and shade
- Improved management of stormwater quality and flow
- Increased biodiversity and habitats for animals
- Enhanced public realm aesthetics and beautified community spaces

Green Infrastructure Consideration: Bioswales

Features:

- Bioswales slow and filter stormwater to delay it from entering the storm drain system
- They can either be planted with grasses or finished with combinations of plant and sod materials

Benefits:

- Designed to manage runoff from a larger impervious area, such as a roadway or parking lot

Suburban Road

Green Infrastructure Example: Bioswales for ditched roads

Green Infrastructure Consideration: Bioretention Cells

Features:

- The construction profile generally consists of the following:
  - Vegetation/plant layers
  - Mulch layer
  - Gravel storage layer
  - Underdrain (pipe system)

Benefits:

- Provides temporary storage, filtration and infiltration of stormwater for improved water quality
- Provides habitat for pollinators and birds

Green Infrastructure Example: Bioretention Cell

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Green Infrasturcture in Thorncrest Village

- The City has hired Consultants to identify and propose the most suitable sites for Green Infrastructure in order to maximize the treatment of storm water. Together with the City, they have started design work.

- Green Infrastructure options will be placed in the City's public right-of-way, including boulevards, the centre medians or on the islands of roadways in Thorncrest Village.

- Optimal locations for Green Infrastructure will be selected based on several factors, including existing drainage patterns, ditches, soil type, existing vegetation and infrastructure.

- In the coming weeks, the City will test how the soil absorbs water along certain streets in Thorncrest Village. A notice will be distributed to properties adjacent to the test areas before testing work takes place. The timeline for soil testing is weather dependent and will be subject to change.

- The implementation of the infrastructure will be coordinated with the second **local road resurfacing contract.**

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City Contact

- General Updates from the City will be sent via email and posted online
  https://www.toronto.ca/community-people/get-involved/public-consultations/infrastructure-projects/thorncrest-village-neighborhood-improvements/
- Construction notices will be mailed to all properties in Thorncrest Village
- From April to July 2019, please contact:

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