



# **Basement Flooding Protection Program Sewer Upgrades on Old Mill Drive and Catherine Street**

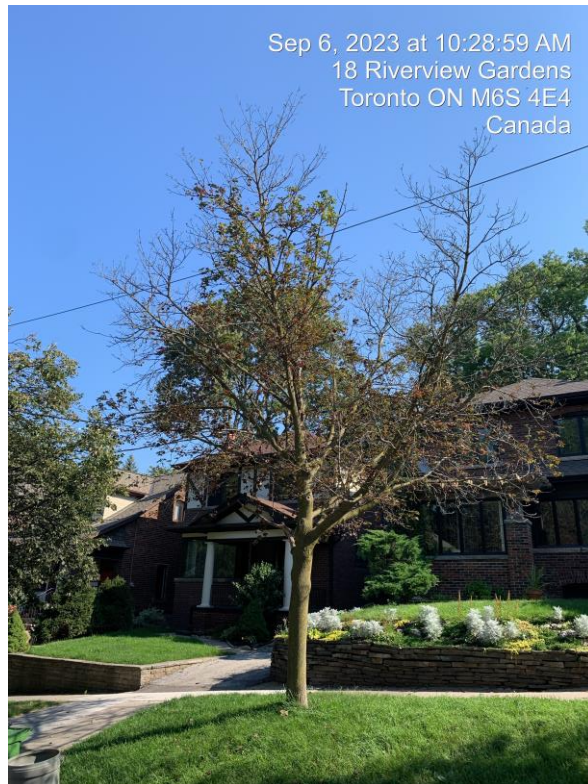
Councillor Perks – Ward 4

Virtual Trailer No.7 – September 07, 2023

# Action Items from Aug 03, 2023 Virtual Trailer #6

## 1. City staff to inspect the condition of the tree in front of 47 Old Mill Drive.

- There has been no work conducted at 47 Old Mill Drive. The water service upgrade within the driveway at 49 Old Mill Drive was completed far from the inspected tree.
- Upon completion of the project, an overall assessment of trees will be conducted to identify and address any potential impacts as a result of the construction of this project.

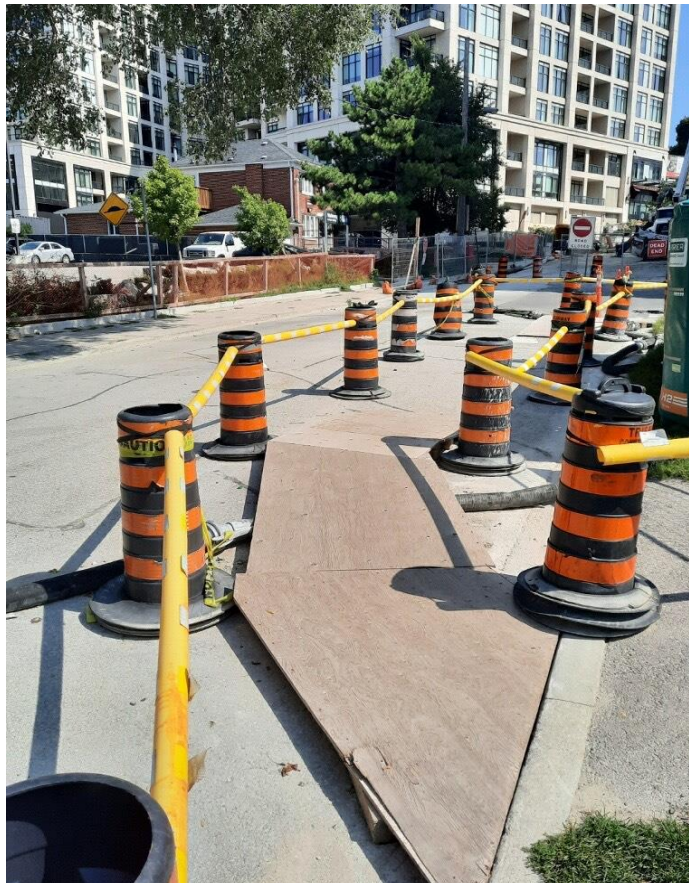




# Action Items from Aug 03, 2023 Virtual Trailer #6

## 2. City staff to inspect the wooden pedestrian walkway and ensure its stability and security.

- The wooden pedestrian walkway has been inspected, reinforced, and yellow cone bars have been installed to ensure its accessibility and security.

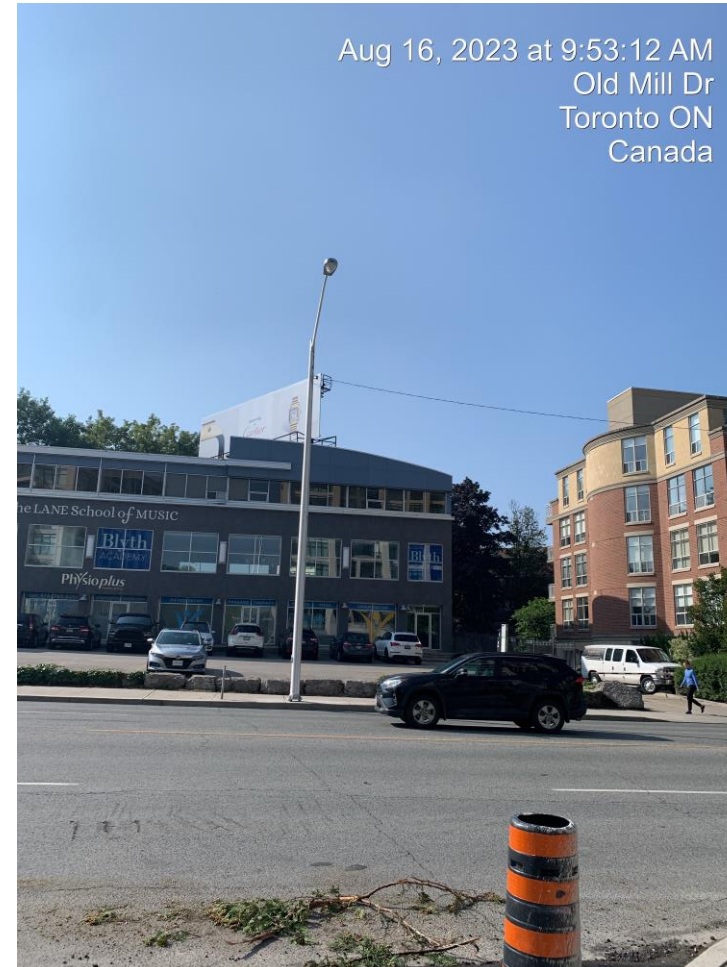
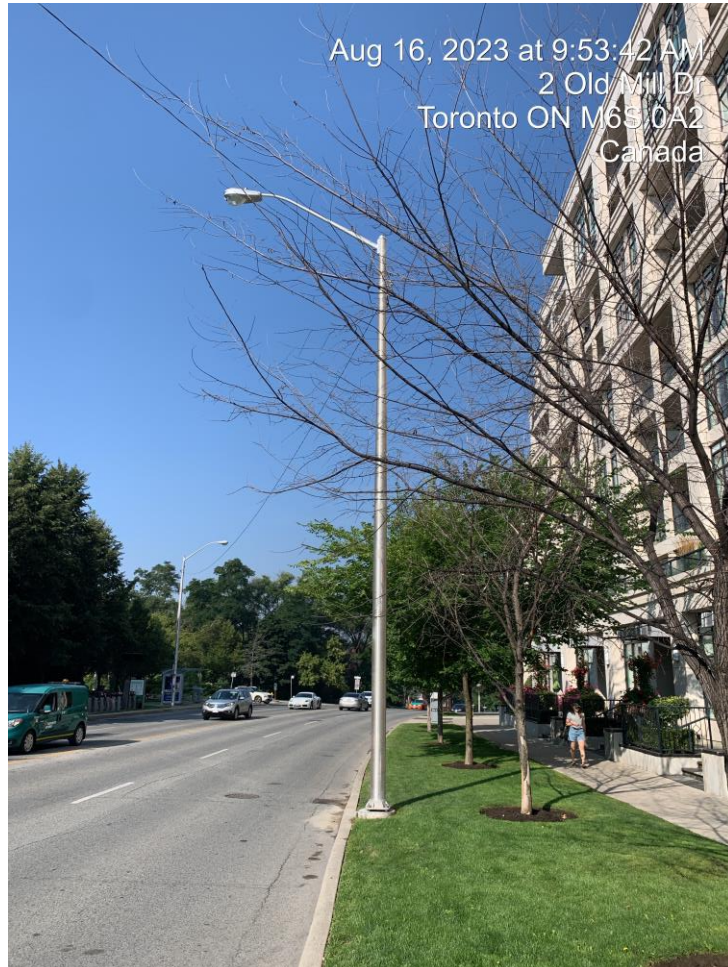


# Action Items from Aug 03, 2023 Virtual Trailer #6

3. **City staff to investigate what machinery was being removed from site at 4:00 AM on August 1, 2023, and provide a response.**
  - On August 1, 2023, a large backhoe was demobilized from the site before 7:00 am. The demobilization took place before 7:00 am to leverage the reduced traffic volume, as gaining access to the site for the removal of large equipment is challenging.
  - The City has made it clear to the Contractor that all work, including demobilization, must adhere to standard work hours and should not take place outside of these hours.

# Action Items from Aug 03, 2023 Virtual Trailer #6

4. City staff will continue to follow up on the status of installation of the light poles by Toronto Hydro.
- Light poles were replaced on Friday, August 11, 2023, by Toronto Hydro contractor.

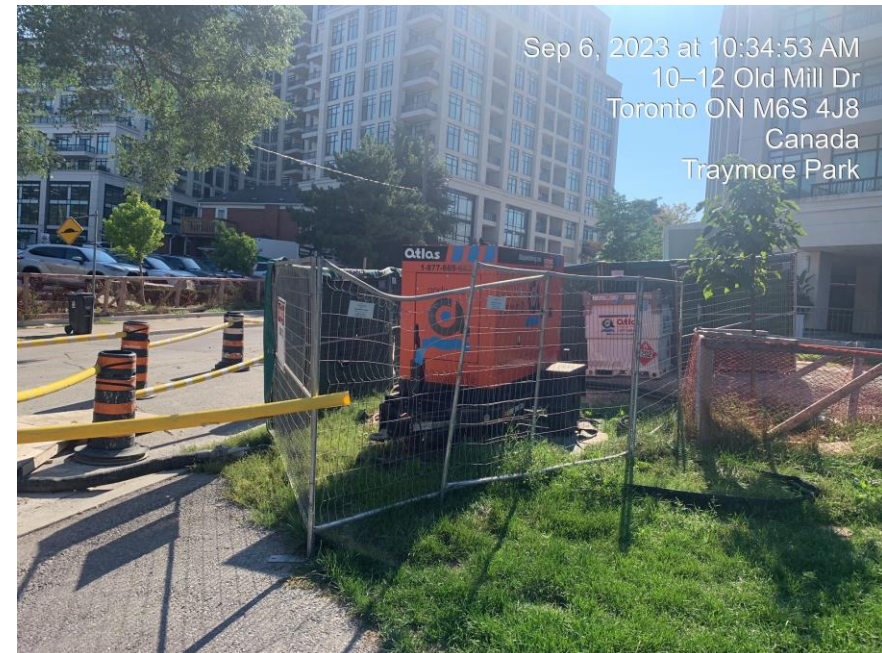




# Action Items from Aug 03, 2023 Virtual Trailer #6

## 5. City staff/Site supervisor to inspect the location and condition of the generator in Traymore Park ahead of expected rainfall.

- The generator was inspected by Atlas, the provider, and it was found to be operating efficiently. Noise barriers have been installed around the generator facing Old Mill Drive, and additional noise barriers will be installed facing Traymore Park to fully enclose the generator and further reduce noise impacts.
- This generator aids in avoiding overland flooding in Traymore Park.

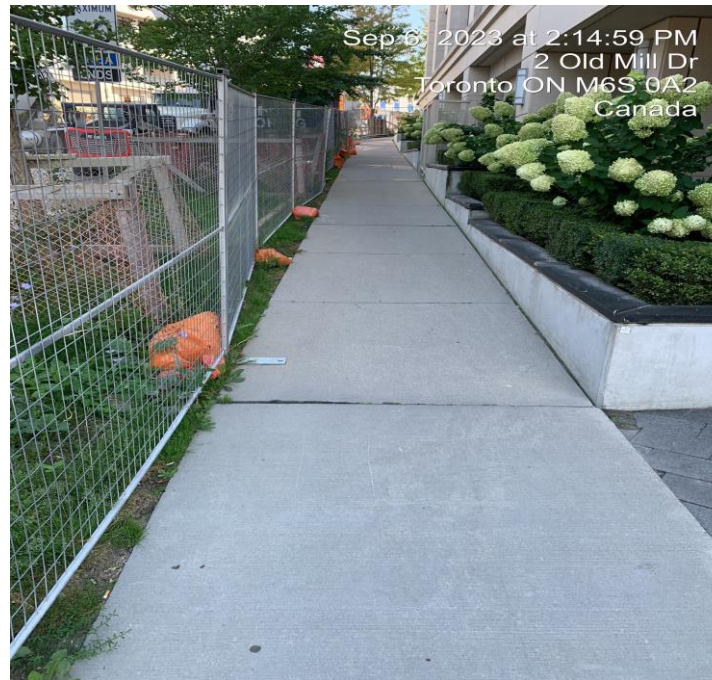




# Action Items from Aug 03, 2023 Virtual Trailer #6

## 6. City staff will follow up regarding the gravel on the sidewalk and road at the south side of the work site.

- The gravel on the sidewalk and road at the south side of the work site has now been cleaned.
- Site staff are conducting daily monitoring and performing sweeping, either manually or mechanically, as needed to keep the area clean.



# Action Items from Aug 03, 2023 Virtual Trailer #6

## 7. City staff to review if window washing can be included as part of the remedial work.

- City staff are currently reviewing if window washing can be included as part of the remedial work.
- To proceed, City will confirm which windows would require cleaning.



# Action Items from Aug 03, 2023 Virtual Trailer #6

## 8. City staff to inspect the conditions of the pedestrian path in Traymore Park.

- Two locations have been identified on the pedestrian path in Traymore Park, where settlement and washouts occurred due to the overland flooding as a result of the dewatering of the Developer project on Riverview Gardens.

These two locations have been temporarily restored.

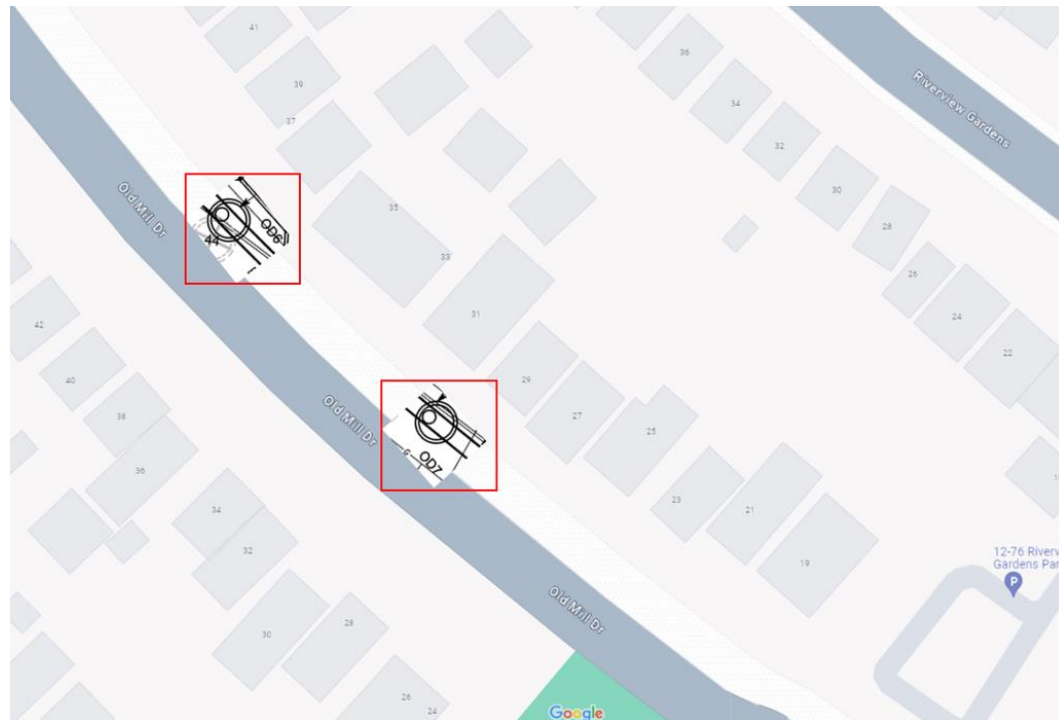
- Permanent restoration will be completed during the restoration phase upon completion of the project.
- No further settlements or safety concerns have been identified at this pedestrian pathway.



# Action Items from Aug 03, 2023 Virtual Trailer #6

## 9. City staff to provide an update on the requirement for two separate maintenance holes on this stretch of sewer.

- City staff have reviewed the requirements for the two separate maintenance holes OD6 and OD7 and have determined that an exception cannot be granted. Construction will proceed as originally designed.
- OD6 will be located at the boulevard on 37 Old Mill Drive and OD7 will be located at the boulevard between 29 and 31 Old Mill Drive.





# Status of Work – Progress Update

## Ongoing Sewer Work

- The ground stabilization operations on Old Mill Drive were completed in June 2023, including a quality check to ensure the ground improvements met the designed makeup and stability requirements.
- The ground stabilization equipment has been demobilized from the work zone and site staff continue to monitor the ground conditions for any signs of settlement, if they occur.
- The receiving shaft has been pumped down and cleaned out to allow the MTBM retrieval work to proceed.





# Status of Work – Progress Update

## Ongoing Sewer Work

- The receiving shaft has been pumped down and cleaned out to allow the MTBM retrieval work to proceed.





# Status of Work – Progress Update

## Ongoing Sewer Work

- The horizontal steel casing in front of the MTBM has been cleaned out.



- The Contractor is now preparing the bottom of the shaft, including breaking out and replacing the mud slab, which is essentially a layer of concrete that is poured over the muddy soil at the shaft's base to create a foundation for constructing a reinforced floor slab. This floor slab will be equipped with an anchor system that is necessary for the extraction of the Micro Tunnel Boring Machine (MTBM).

# Status of Work – Progress Update

## Sequencing of work

- Installation of a new reinforced floor with anchor points for MTBM extraction operations.
- The mining will continue through the concrete towards the Micro Tunnel Boring Machine (MTBM). Once the MTBM is reached, the crew will work in and around its head using water jetting to free the machine from its current position. To extract the MTBM, a crane and pulley system will be employed. This system will carefully lift and move the MTBM into the shaft, allowing for its removal.
- After recovering the machine, the infrastructure work to connect the new storm sewer will commence with an open-cut sewer connection at the Riverside Drive shaft, followed by the open-cut maintenance holes (including OD6 and OD7) work on Old Mill Drive for the tunnelled storm sewer.
- Lastly, after the open cut construction is completed, all outstanding restoration of the site on Catherine Street and Old Mill Drive will be completed starting in the Fall of 2023.
- Due to Winter season, there is a possibility of some minor restoration work being carried over to Spring 2024, but we will make every attempt to mitigate delays.



# Status of Work – Progress Update

## **Spill at the Outfall to Humber River at Etienne Brule Park**

- A Spill was identified on April 25, 2023 at the Outfall to Humber River of construction material/sediment.
- The Contractor is monitoring and maintaining the two containment dams installed on April 25, 2023.
- The Contractor is communicating with MECP, who visited the site on multiple occasions and are satisfied with current conditions.

## **Additional Spill at the Outfall unrelated to this Basement Flooding Protection Program (BFPP) contract.**

- Another spill was identified at the outfall to Humber River at Etienne Brule Park the week of June 5 by Toronto Water. The spill was from an old existing storm headwall connecting to an alternate storm sewer system, not the newly constructed headwall and storm sewer part of the BFPP scope.
- Toronto Water installed and is monitoring containment dams at this location.

# Status of Work – Progress Update

## Water Service Upgrades

- Completed at properties where substandard conditions were identified.
- Upon commencement of the MTBM recovery operations, the General Contractor's crew will be available to conduct the investigations for the two outstanding water service upgrades. Lead kits were distributed to the properties but are not necessary until disturbance to the service when an upgrade is performed. The remaining water service work will commence when the Contractor has available resources as the focus has been on the ground improvement and MTBM rescue work.

## Restoration

- An overall assessment of impacted trees, sidewalks, sod and road required for restoration due to construction will be reviewed upon completion of underground work.
- Contractor will restore driveways and sod in the Fall 2023. Due to Winter season, there is a slight possibility of some minor restoration work being carried over to Spring 2024, but we will make every attempt to mitigate delays.
- Some sod restoration for areas impacted by Water Service upgrades have been completed as an interim solution to maintain safety and cleanliness.



# Old Mill Drive Work Schedule

Key Work	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Spring 2024*
Ground Improvements Phase 1 - Compaction Grouting										
Ground Improvements Phase 2 - Jet Grouting										
Sanitary/Storm Works, shaft cleaning										
Recovery of Microtunneling Boring Machine (MTBM)										
Installation of remaining sewer infrastructure										
Restoration (Road, Boulevard, Driveways, Sod, Park etc.)										

Please note, timelines are subject to change and community will be notified if any updates are necessary.

\*There is a possibility of some minor restoration work being carried over to Spring 2024, but we will make every attempt to mitigate delays.