





#### Rosehill Reservoir Rehabilitation

September 13, 2017









BROWN + STOREY ARCHITECTS INC.

#### Agenda

Doors open 6:00pm – 7:00pm

Welcome and introductions 7:00pm - 7:05pm

Councillors Wong-Tam and Matlow 7:05pm – 7:15pm

Working Group

(led by Rosehill Vision Committee) 7:15pm – 7:20pm

Presentation 7:20pm – 8:00pm

Questions 8:00pm - 8:30pm

Open forum 8:30pm – 9:00pm

#### Meeting Ground Rules

- As the facilitator, my purpose is to ensure we have a good meeting, stay on topic, on time with the agenda and finish on time
- Please show decorum and respect to both your neighbours and staff. We want to create a safe environment at this meeting to respect all opinions and feedback
- One speaker or discussion at a time please
- Please hold all questions until after the presentation

#### Welcome and Introductions

#### Introductions

- City Team:
  - Engineering & Construction Services
  - Toronto Water
  - Public Consultation Unit
  - Heritage Preservation Services
  - Parks, Forestry & Recreation
  - Toronto and Region Conservation Authority

- Councillors:
  - Kristyn Wong-Tam Ward 27
  - Josh Matlow Ward 22
- Consultant Team:
  - Associated Engineering
  - Brodie & Associates Landscape Architects
  - Brown & Storey Architects

#### Councillors' Address

## Working Group Address (Rosehill Vision Committee)

### Project Background

The open-topped Rosehill Reservoir was commissioned in 1874 with a storage capacity of 156 Million Litres of potable water.



Open Reservoir, July 1936



Reservoir Construction, 1965

In 1966, the reservoir was expanded to a storage capacity of 270.3 Million Litres and the structure was covered.



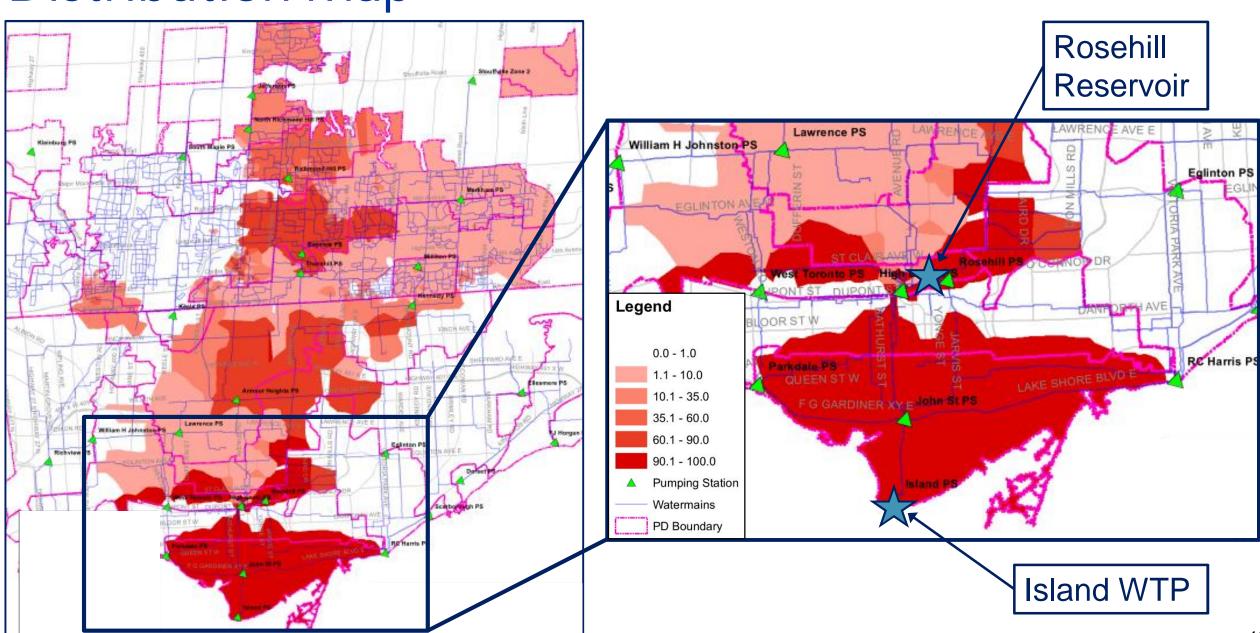
Aerial Photo, 1947



Covered Reservoir, 1975



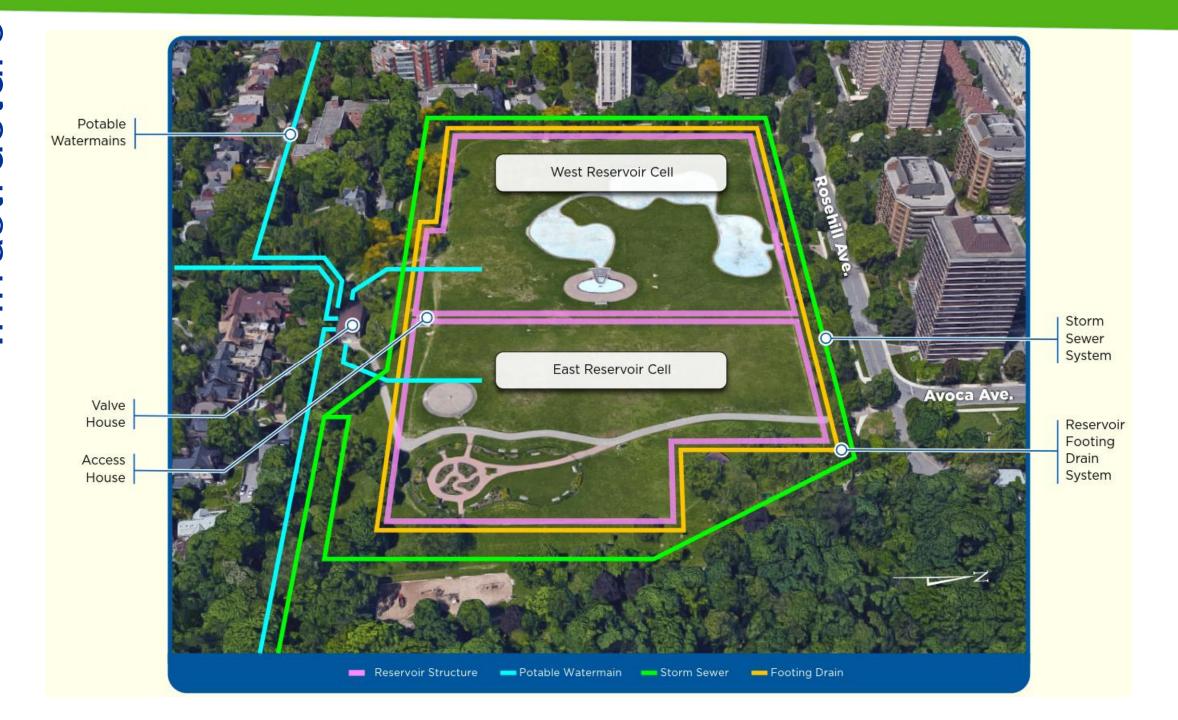
#### Distribution Map



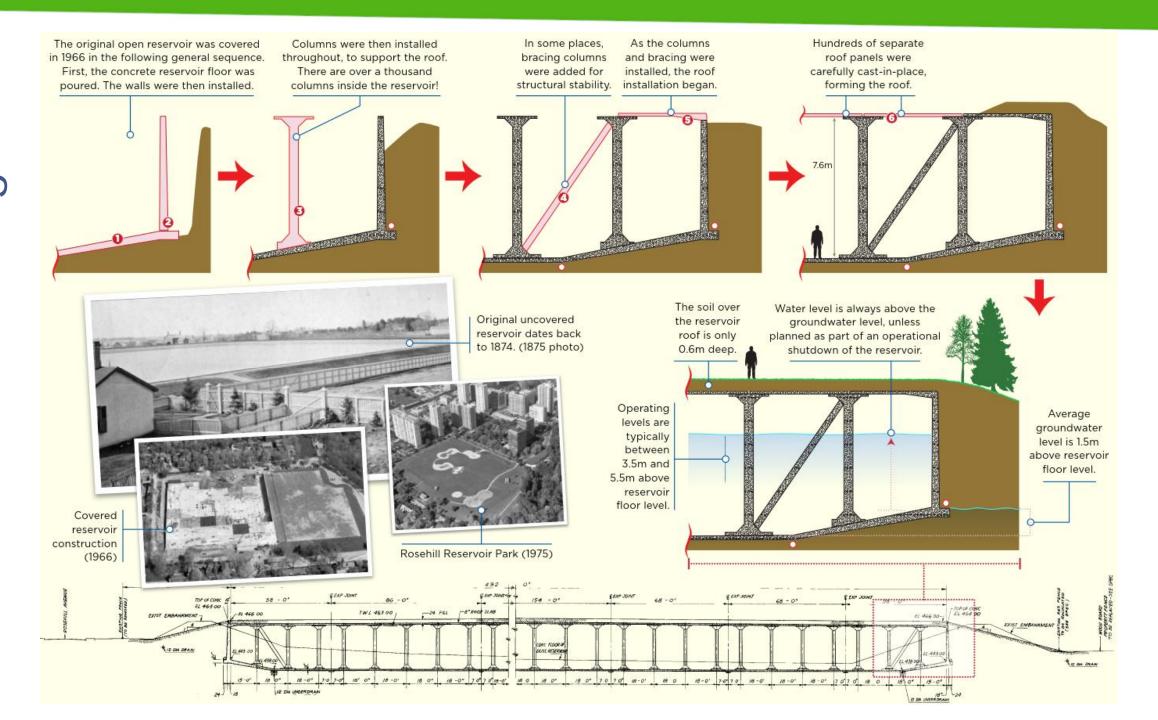
#### Infrastructure Rehabilitation Scope

#### Rehabilitation Needs

- The Rosehill Reservoir was last upgraded 51 years ago (1966)
- Condition assessment was completed in 2014
- Due to the age and critical nature of the reservoir infrastructure, rehabilitation and upgrades are required to:
  - Ensure the structural integrity of the reservoir
  - Extend the service life of the reservoir
  - Bring the infrastructure to a state of good repair







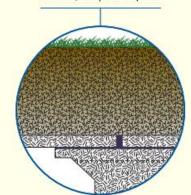




A new subdrainage system will be installed over the reservoir roof along with a new perimeter drain system to improve site drainage and minimize pooling on the surface.

(in-situ rehabilitation rather than open excavation)

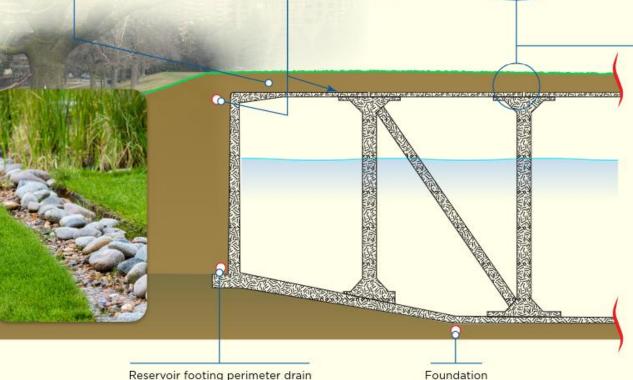
Expansion joints between each roof panel (highlighted in red on the image below) require repair.



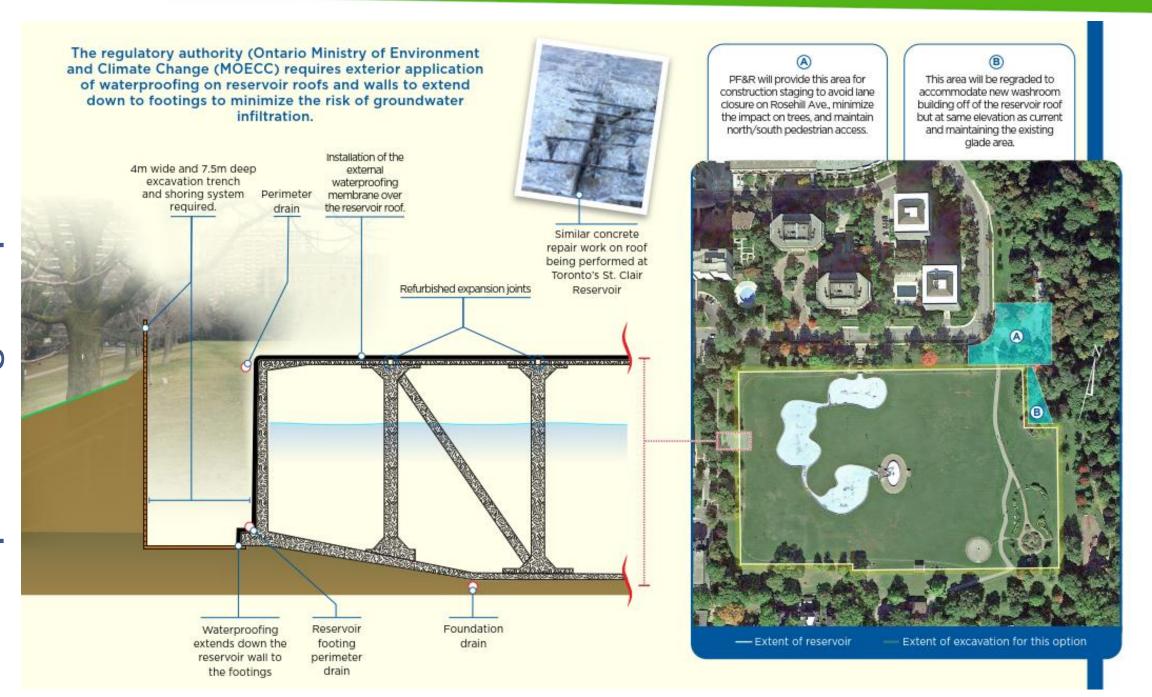
drain

Major Rosehill Reservoir Rehabilitation scope items include:

- Rehabilitation of interior and exterior concrete and refurbishment of expansion joints
- Upgrades to improve reservoir access for operation & maintenance
- Replacement of reservoir roof exterior waterproofing membrane system
- Rehabilitation of the reservoir Access House and Valve House
- Replacement and repair of process piping and valves
- Replacement of soil over reservoir roof and improvement of surface drainage
- Rehabilitation of perimeter storm drainage and perimeter footing drain systems
- · Reinstatement of reservoir greenroof and park facilities



The expansion joints between each roof panel require repair. To expose and repair the joints, digging a 2m wide trench over the joints would be required. This is equivalent to 3km of 2m-wide trenches over the roof! As the scope also includes improving overall site drainage and exterior waterproofing of the reservoir roof, all soils on top of the reservoir must be removed, which will facilitate the expansion joint repair.



throughout the year

Groundwater level data was collected for over one year to confirm and negotiate an agreed-upon waterproofing approach.

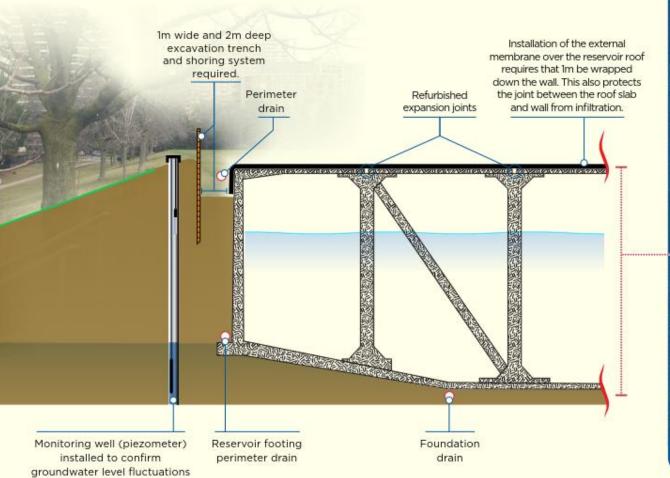
Toronto Water has also committed to implementing a special reservoir operating procedure to satisfy the MOECC that the risk of infiltration has been eliminated. The MOECC has agreed to permit the alternative and less disruptive waterproofing application which extends only 1 m down the reservoir wall from the roof.

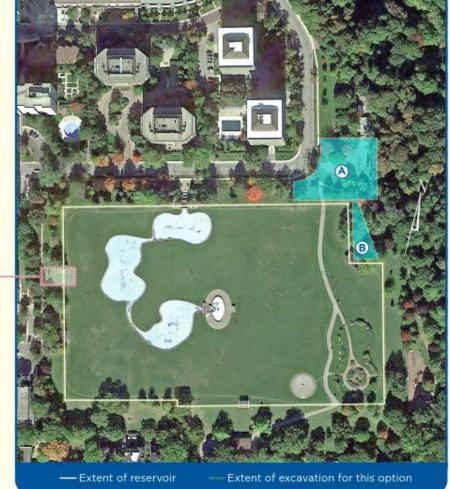


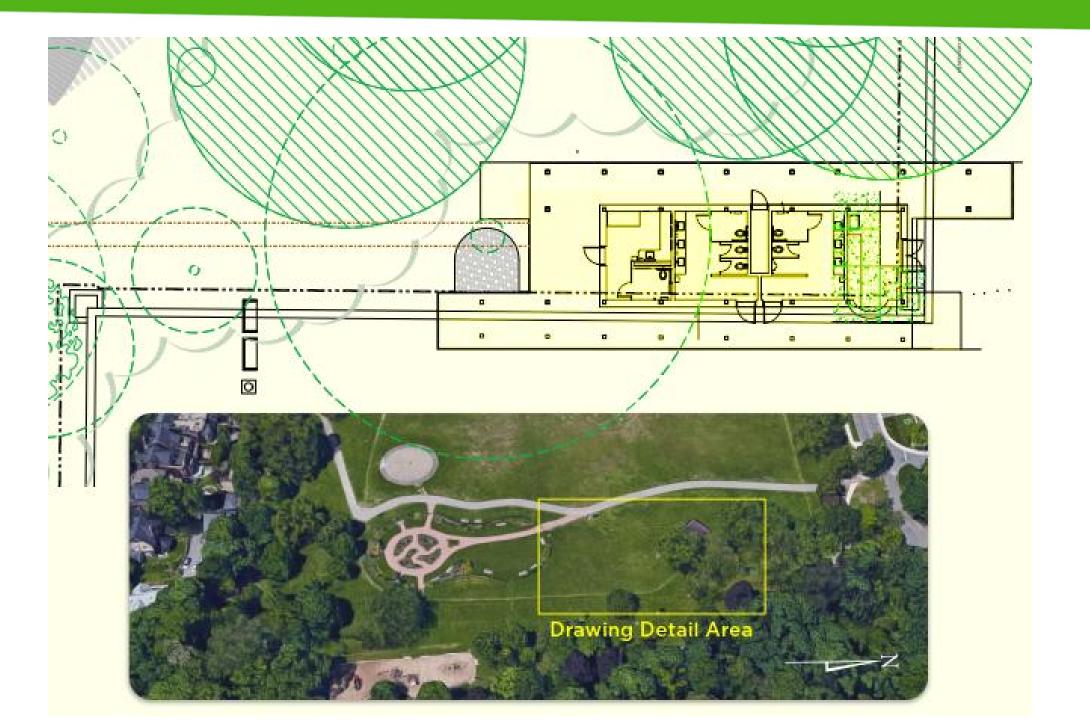
PF&R will provide this area for construction staging to avoid lane closure on Rosehill Ave., minimize the impact on trees, and maintain north/south pedestrian access.

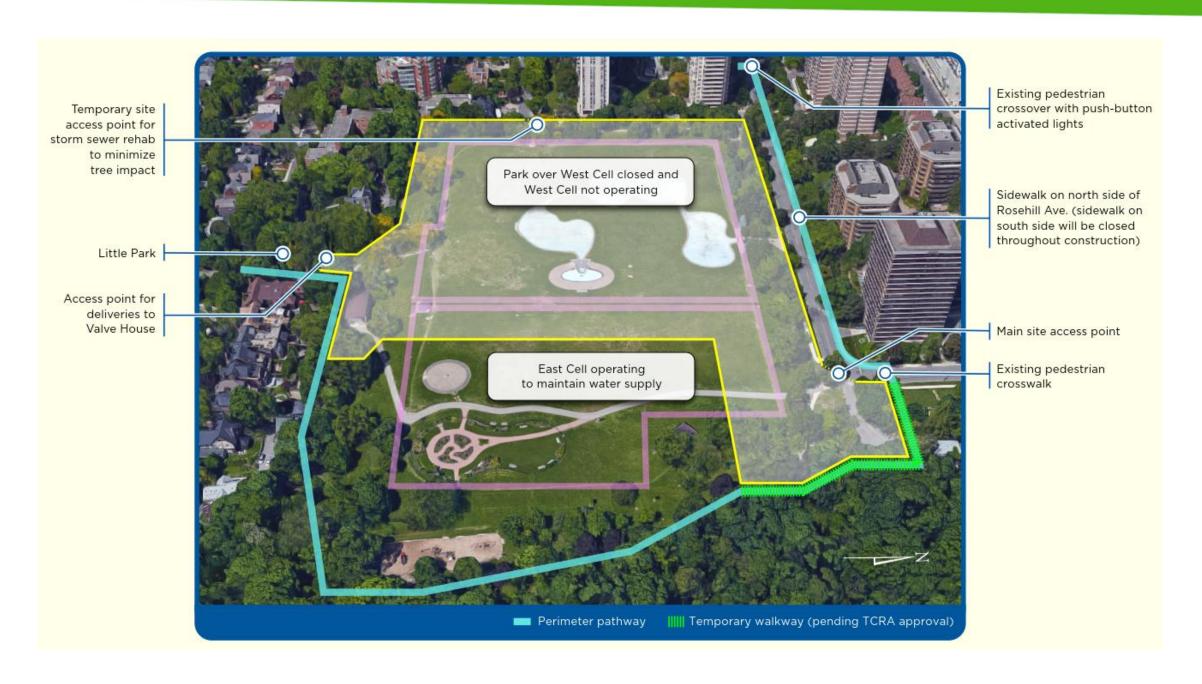


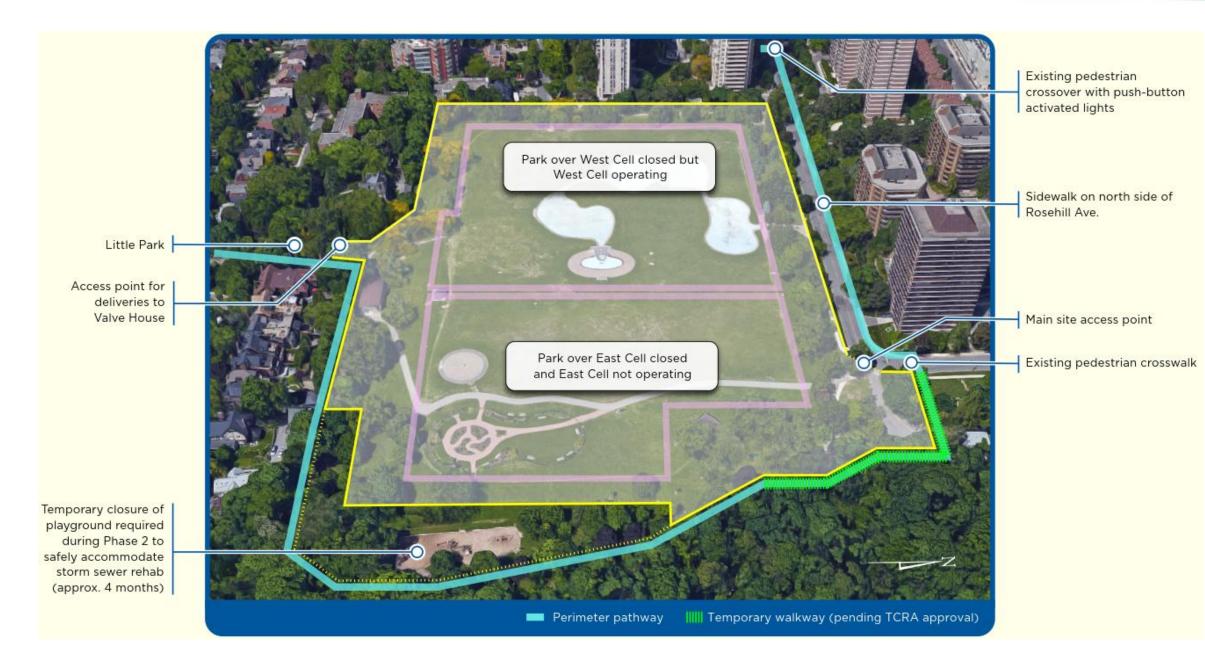
This area will be filled with soil so new washroom building can be located off of the reservoir roof but at same elevation as current.

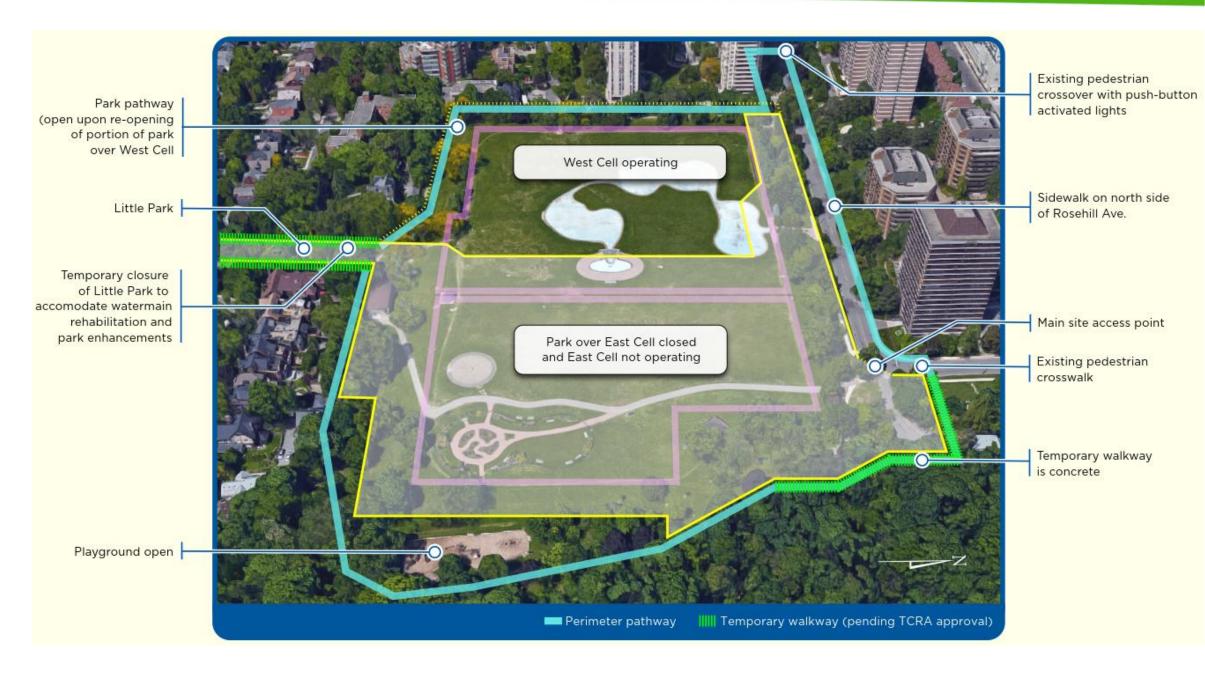












#### **Public Consultation Process**

#### Project Stakeholders

- Wards 22 and 27 Councillors
- City Divisions (Toronto Water, Engineering & Construction Services, Public Consultation Unit, Parks, Forestry & Recreation, Planning/Heritage Preservation Services)
- Toronto Regional Conservation Authority (TRCA)
- Residents and park users
- Working Group (with the Rosehill Vision Committee)
- Summerhill Residents Association
- Rosehill Garden Volunteers
- Permit takers (including sports groups and local schools)

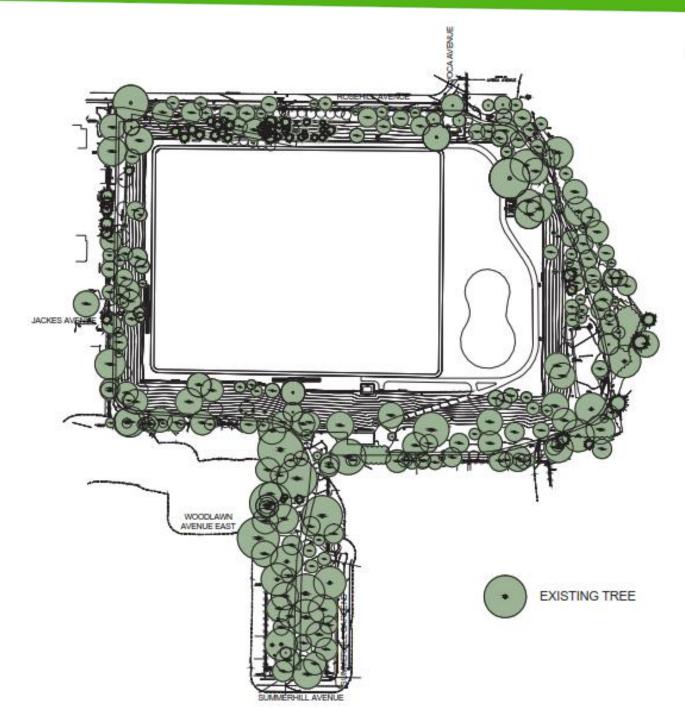
#### Consultation Process So Far

- 2015 onwards: Meetings and conversations with the Rosehill Garden Volunteers and local stakeholder groups, schools, and park permit holders (including sports organizations)
- Late 2015: Notices of site works delivered to study area, email list established, project website established (www.toronto.ca/rosehill)
- Spring 2016: Site signage installed, project business cards distributed on-site
- Fall 2016: Presentation to Summerhill Residents Association
- May 2017: Rosehill Vision Committee Community Meeting
- Ongoing: Email list is growing, updates are sent out regularly, website is updated regularly, and the project team continues to receive and review comments from the public via phone and email

### Landscape Vision



#### **EXISTING TREES**



# WOODLAWN AVENUE EAST EXISTING TREE TO BE PRESERVED EXISTING TREE TO BE REMOVED

TREE REMOVALS
(35)



#### LOWER CIRCUIT PATH AND MULTI-USE PATH ROSEHLL AVENUE PRECEDENT IMAGE - ASPHALT JACKES AVENUE 1 WOODLAWN AVENUE EAST **ASPHALT** POWER-WASHED CONCRETE PRECEDENT IMAGES -POWER-WASHED CONCRETE SUMMERHILL AVENUE

## UPPER CIRCUIT PATH ROSEHLL AVENUE JACKES AVENUE WOODLAWN AVENUE EAST LIMESTONE PATH PRECEDENT IMAGES -CRUSHED LIMESTONE SURFACE SUMMERHILL AVENUE

### RAMP WITH WATER **FEATURE** ADDITIONAL THREE RESPONSES WELL BE REQUIRED FOR CONSTRUCTION OF RIZZEN PRATURE ROSEHILL AVENUE JACKES AVENUE WOODLAWN AVENUE EAST WATER FEATURE PRECEDENT IMAGES -LINEAR WATER FEATURES SUMMERHILL AVENUE

## HERITAGE MOLECULE **SCULPTURE** ROSEHILL AVENUE JACKES AVENUE WOODLAWN AVENUE EAST MOLECULE SCULPTURE CURRENT IMAGES SUMMERHILL AVENUE





# ROSEHLL AVENUE JACKES AVENUE 1 WOODLAWN AVENUE EAST NEW GARDENS SUMMERHILL AVENUE

### **NEW GARDENS**

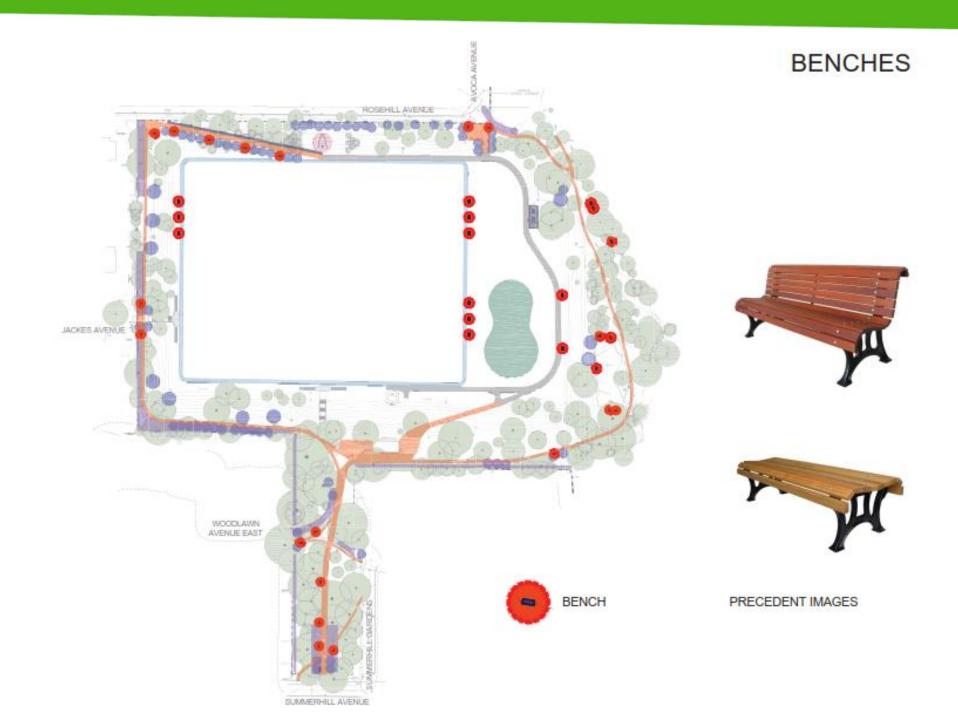


PRECEDENT IMAGE -SPECIES FOR SCREENING



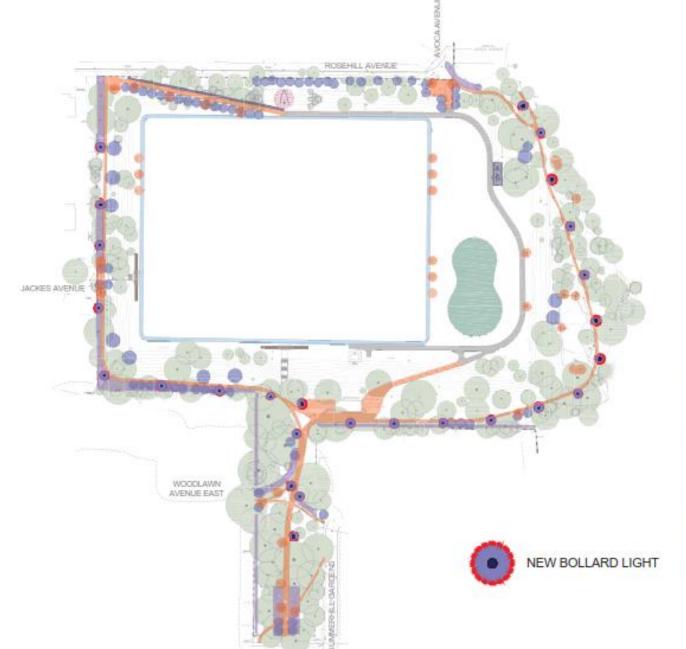


PRECEDENT IMAGES -NATIVE ORNAMENTAL SPECIES



# **ARBOURS** ROSEHILL AVENUE JACKES AVENUE PRECEDENT IMAGE WOODLAWN AVENUE EAST ARBOURS SECTIONS SUMMERHILL AVENUE

### LIGHTING



SUMMERHILL AVENUE



PRECEDENT IMAGE -BOLLARD LIGHTING



### GATEWAY NODE DESIGN LANGUAGE

#### PLANTING - PRECEDENT IMAGES



COLUMNAR TREES



MULTI-STEM SHRUBS



FLOWERING SHRUBS



**PERENNIALS** 

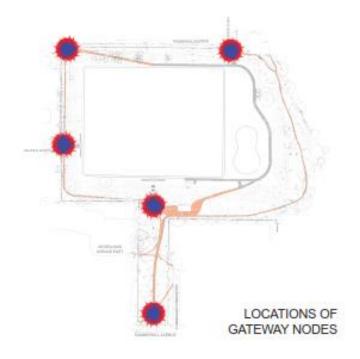
#### AMENITIES - PRECEDENT IMAGES



HERITAGE SIGNAGE

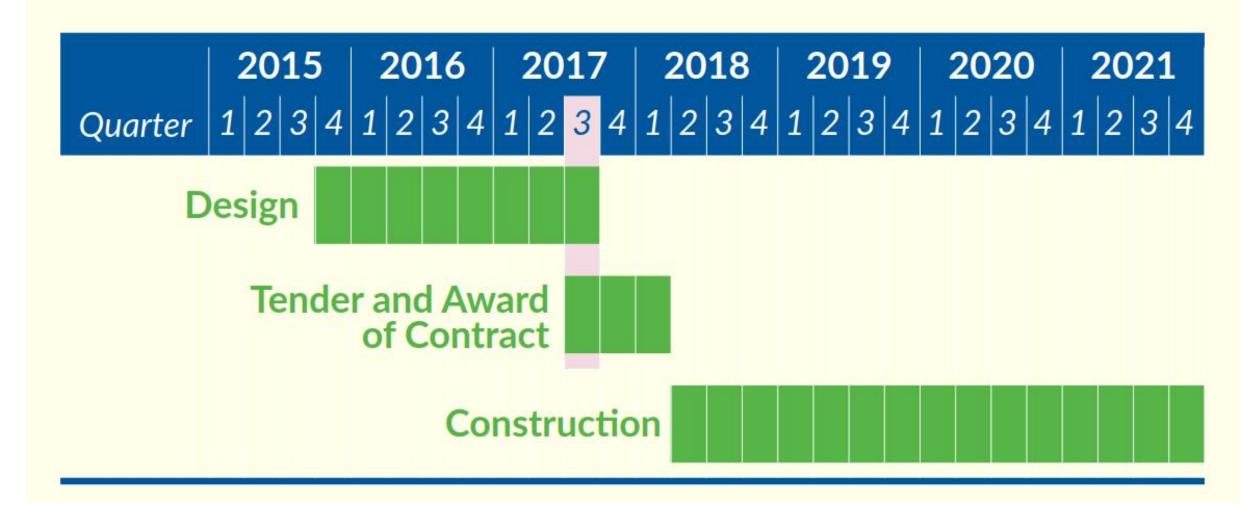


PAVING



# Wrap-up

## Project Schedule



# Next Steps

Following this meeting, the project team will:

- Review the comments received tonight and any comments submitted prior to the September 22<sup>nd</sup>, 2017 deadline
- Make revisions to the landscape plan based on these comments
- Provide a revised landscape plan to the contract bidders before the contract tender closes
- Select and confirm a contractor with City Council's approval
- Hold a second Public Meeting in the new year to share the finalized landscape plan and details of the construction schedule

### Get Involved

There are a number of ways that you can participate in the Rosehill Reservoir Rehabilitation project and stay updated:

- Fill out a feedback form or speak with staff tonight
- Submit comments by September 22<sup>nd</sup>, 2017
- Request to be added to the project email list to receive updates
- Visit the project website for information and updates: <a href="https://www.toronto.ca/rosehill">www.toronto.ca/rosehill</a>

Contact: Kate Nelischer, Sr. Public Consultation Coordinator kate.nelischer@toronto.ca

### **Q&A Ground Rules**

- 1. All questions should be directed through the facilitator who will moderate the Q&A session
- 2. A standing microphone will be used so everyone can hear the question/comment and the response
- 3. The person at the microphone has the floor, please do not interrupt the speaker who has the floor
- 4. Please introduce yourself before your question or comment for the record of the meeting
- 5. Please do not interrupt the response to your question

### Ian Darragh photo



# Open Forum









