

# PORT LANDS FLOOD PROTECTION

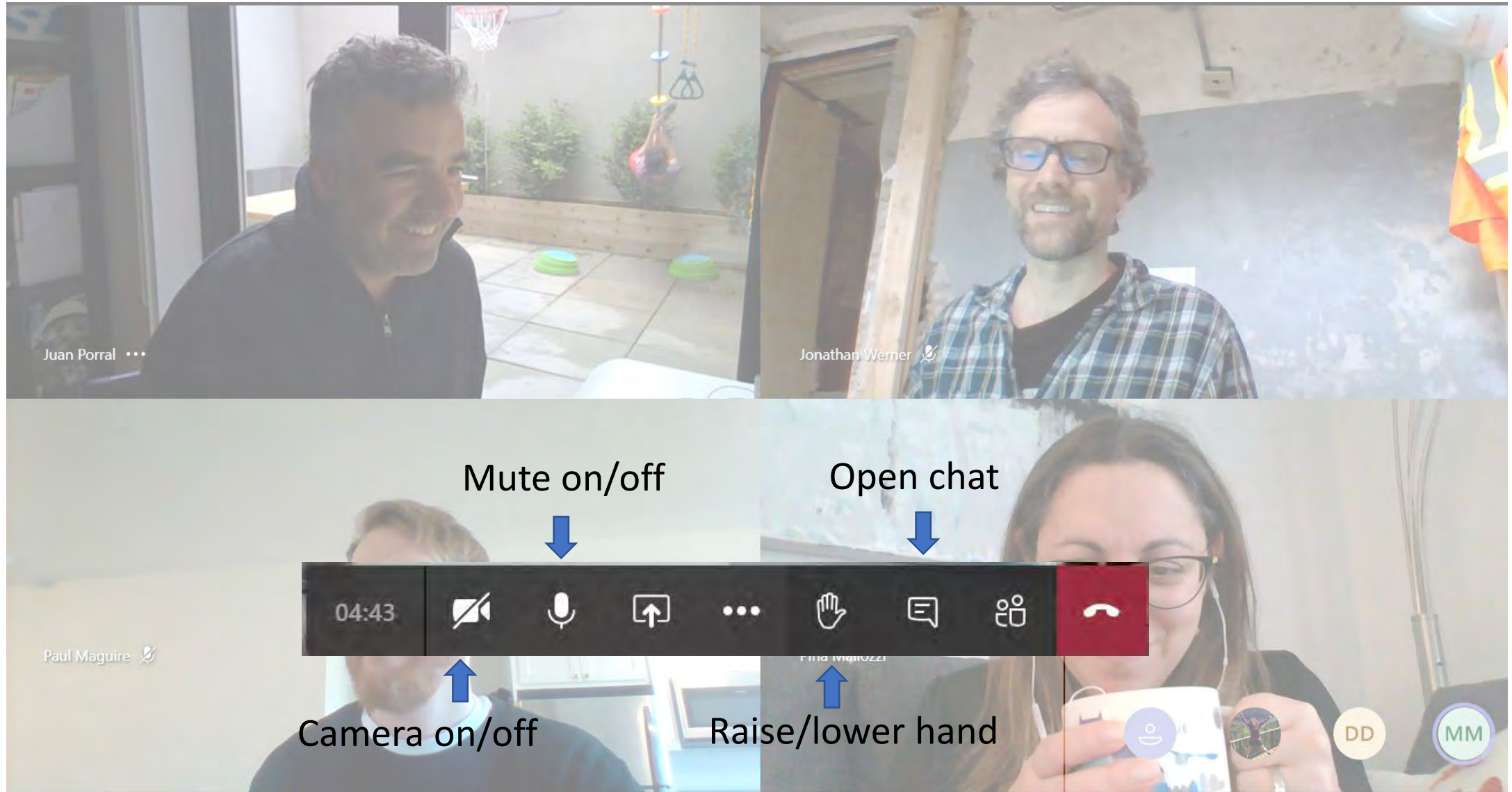
Port Lands Flood Protection Construction Liaison Committee Meeting #14  
February 24, 2021



# Teams 101 – Joining on a Computer

- Turn your camera on if you're comfortable
- Click the microphone icon to mute yourself when you're not speaking
- Troubleshooting: use the chat window to note any issues
- We'll record this session for minuting purposes

# Microsoft Teams



# Teams 101 – Joining via Telephone

- To mute/un-mute yourself, press \*6
- Mute yourself when you're not speaking
- Let us know if you can't hear or you can't tell which slide is being presented

# Agenda

1. Introductions
2. Construction Update: Port Lands Flood Protection
3. Upcoming Construction Work
4. Lake Shore Boulevard
5. Lower Don Trail
6. Discussion and Feedback

# Project Overview

# Port Lands Flood Protection - 2024



# Construction Update: Port Lands Flood Protection





June 2020





August 2020





November 2020





January 2021





Future River Valley



# River Valley Excavation



June 2020



# River Valley Excavation



August 2020



# River Valley Excavation



November 2020



# River Valley Excavation



Soil Treatment Area

Deep Excavation

Water Treatment Plant

November 2020

Future River Mouth



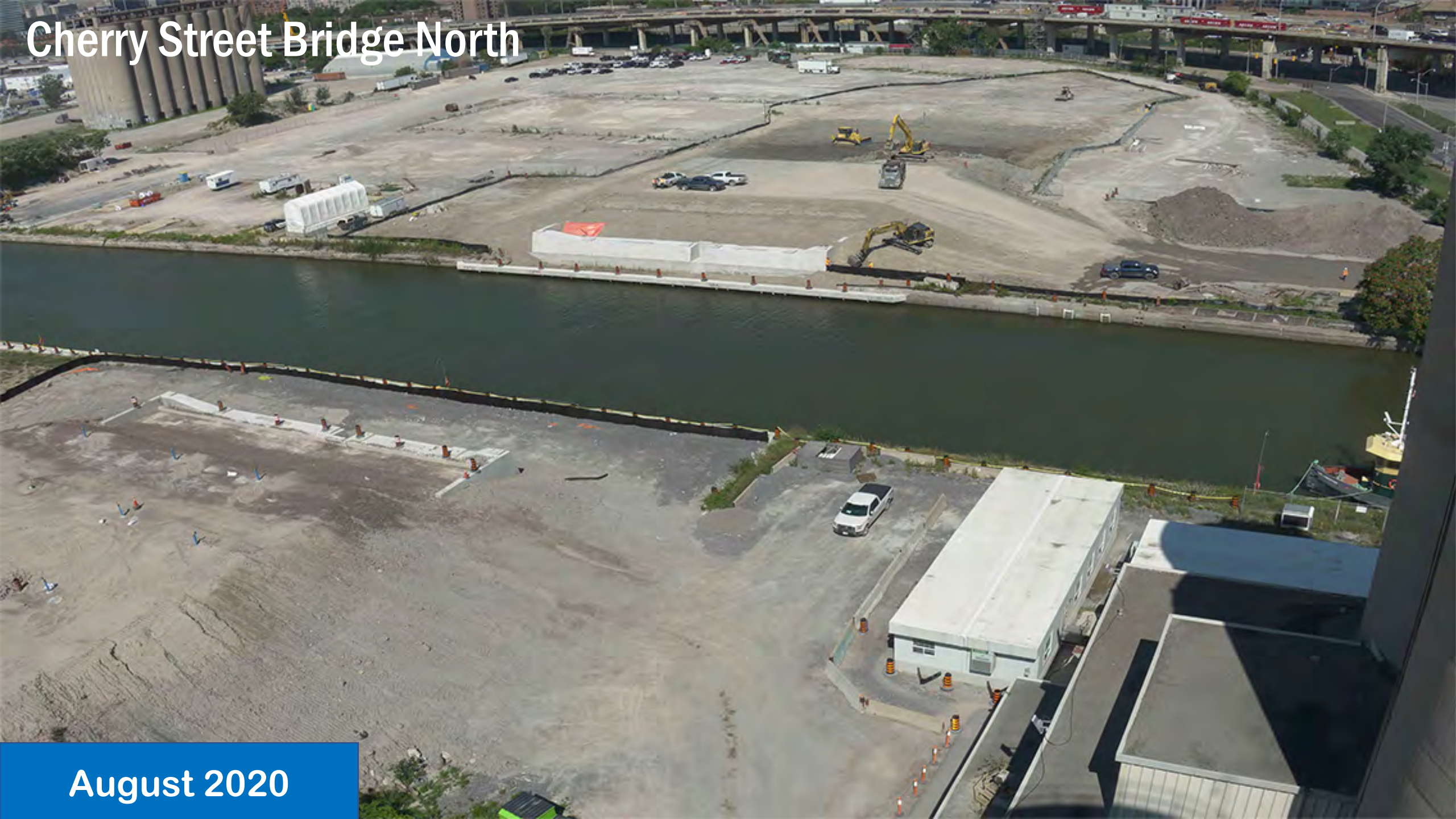
# Cherry Street Bridge North



June 2020



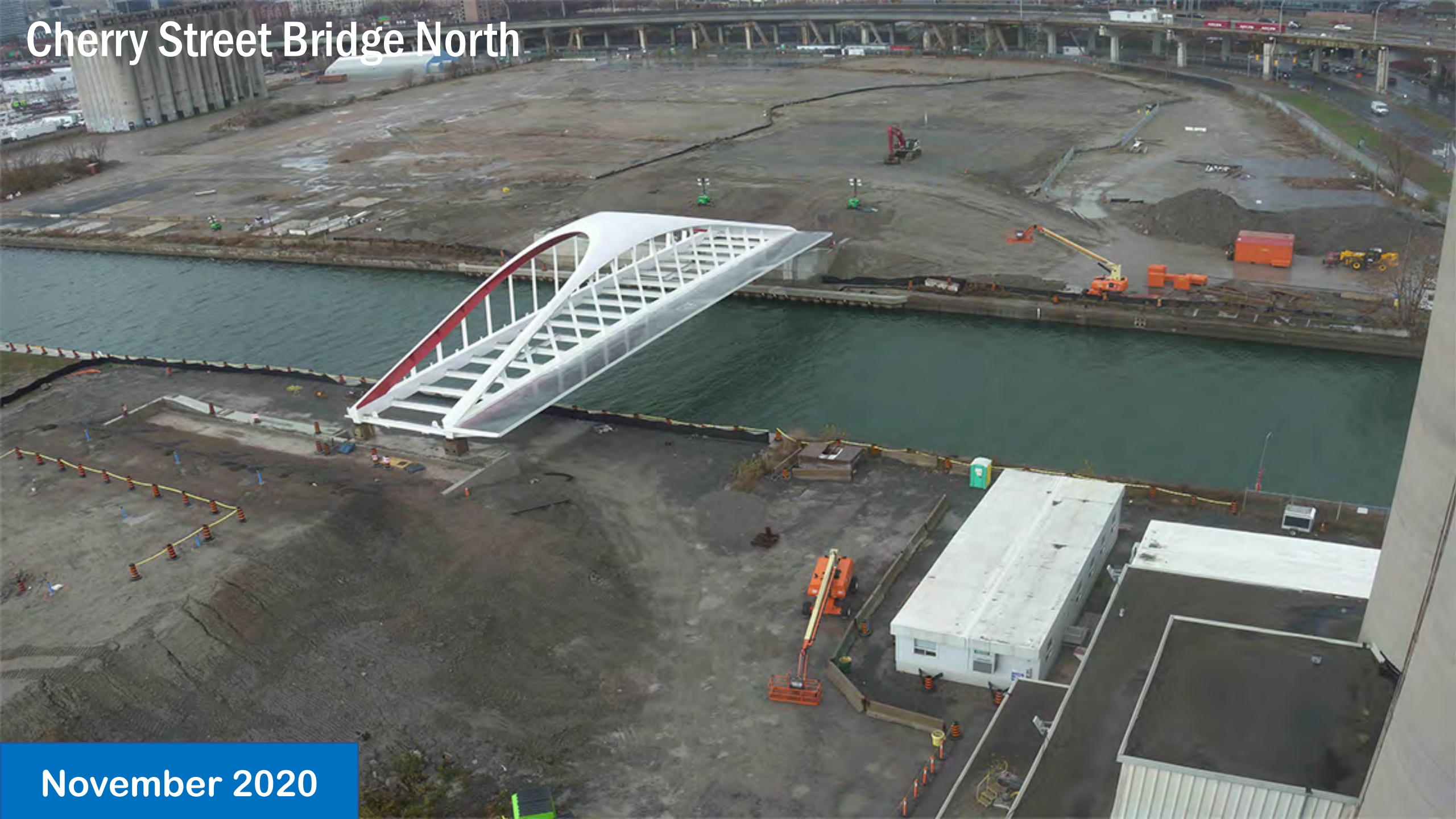
# Cherry Street Bridge North



August 2020



# Cherry Street Bridge North



November 2020



# Cherry Street Bridge North



February 2021

# Construction Update: Port Lands Flood Protection



# Ongoing Work: Excavation

## SPILLWAY

Section A: 34,957.2 m<sup>3</sup>

Section B: 42,489.6 m<sup>3</sup>

Section C: 41,278.6 m<sup>3</sup>

TOTAL: 118,725.3 m<sup>3</sup>

\*February 17, 2021





# Ongoing Work: Excavation – Spillway





# Ongoing Construction: River Valley Liner

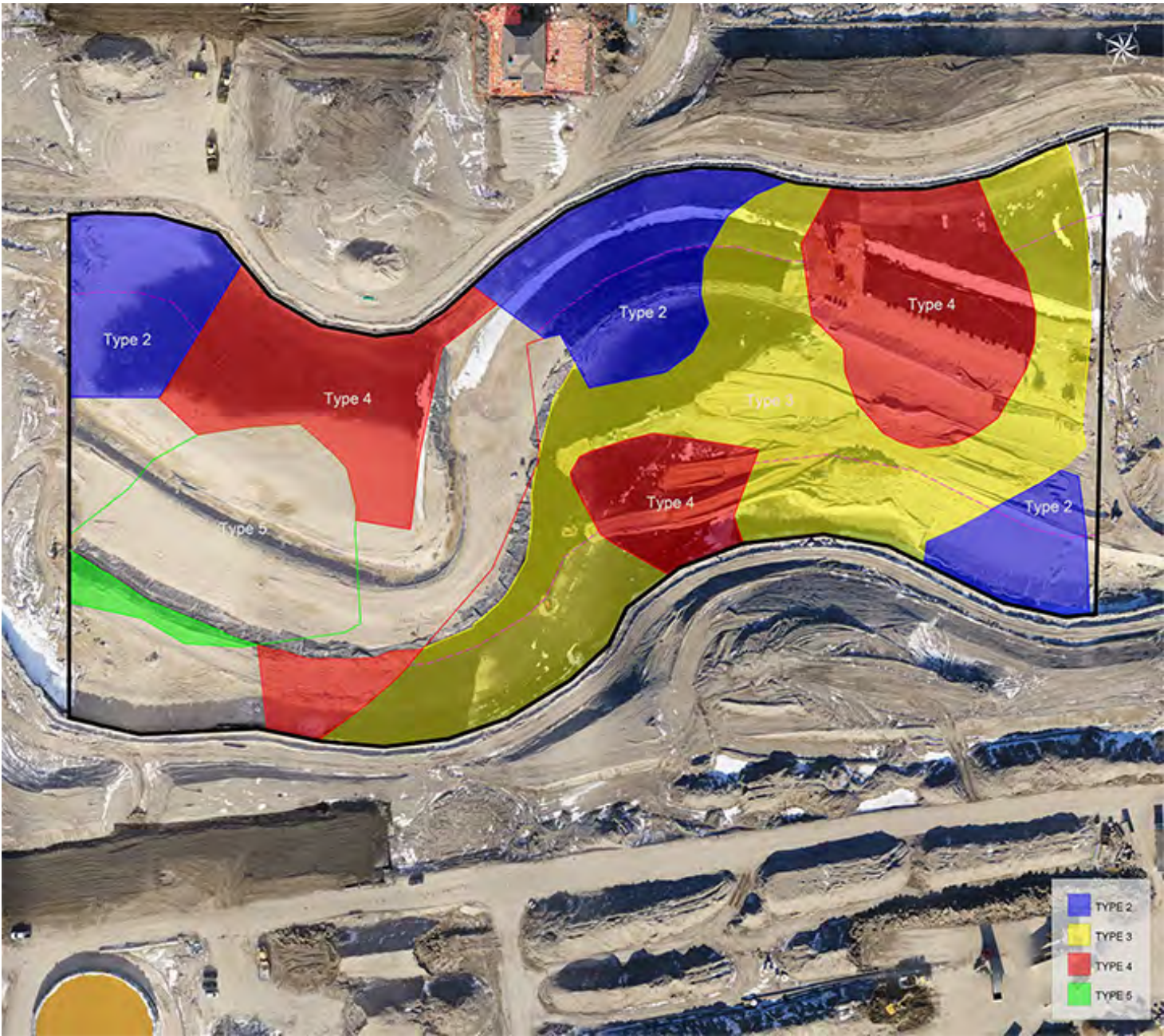
## RIVER VALLEY LINER & CLEAN FILL CAP

### RTL Placement As-built

Barrier Type	Type Area (m <sup>2</sup> )
Type 2 (North)	3,299.2
Type 2	2,871.8
Type 2 (South)	1,117.1
Type 3 (North)	1,240.2
Type 3	6,763.6
Type 3 (South)	4,086.0
Type 4	10,762.5
Type 5	461.0
<b>Total</b>	<b>30,601.3</b>

### Notes

DATE Surveyed: February 11, 2021





# Ongoing Construction: Liner Installation – River Valley





## Ongoing Construction: Liner Installation – River Valley





# Ongoing Construction: River Valley Parks

## RIVER PARKS – NORTH & SOUTH

### RPN and RPS As-Built

#### RPN

Completed Fill - 33,990 m<sup>3</sup>

Surcharge Completed- 23,677.0 m<sup>3</sup>

Surcharge Remaining - 16,134 m<sup>3</sup>

#### RPS

Completed Fill - 35,449 m<sup>3</sup>

Surcharge Completed- 23,792 m<sup>3</sup>

Surcharge Remaining - 16,359 m<sup>3</sup>

#### Notes

DATE Surveyed: February 11, 2021





# Ongoing Construction: Stockpiling & Treatment – Cherry Street





# Ongoing Construction: Star X Soil Treatment



Thin Clean Soil Cap Placed on  
Top of Contaminated Soil





# Ongoing: Diaphragm Wall Construction





# Ongoing: Cherry Street South Bridge



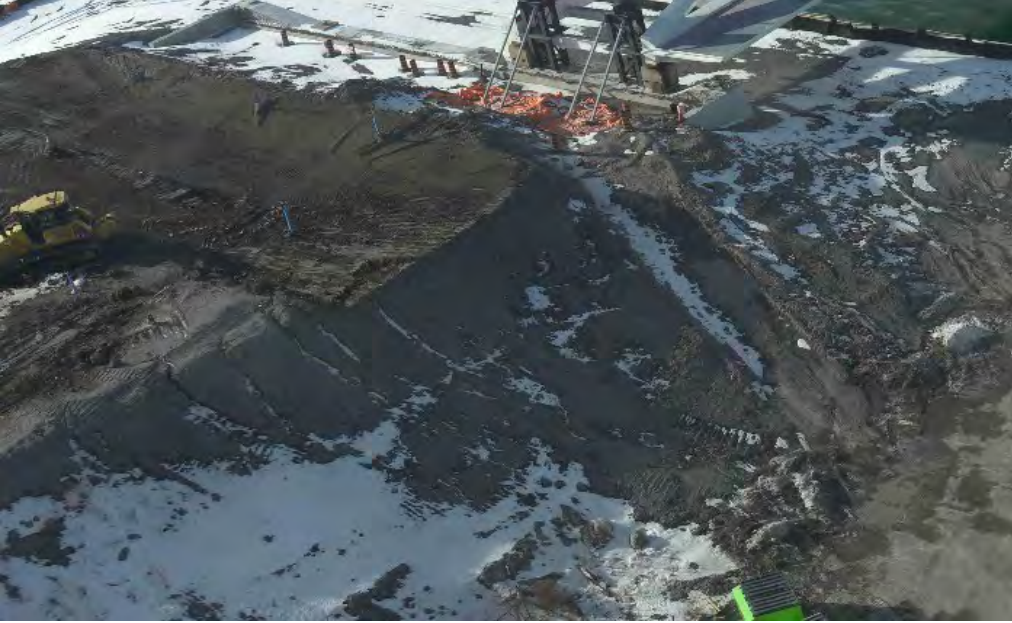


# Ongoing: Commissioners Street Bridge

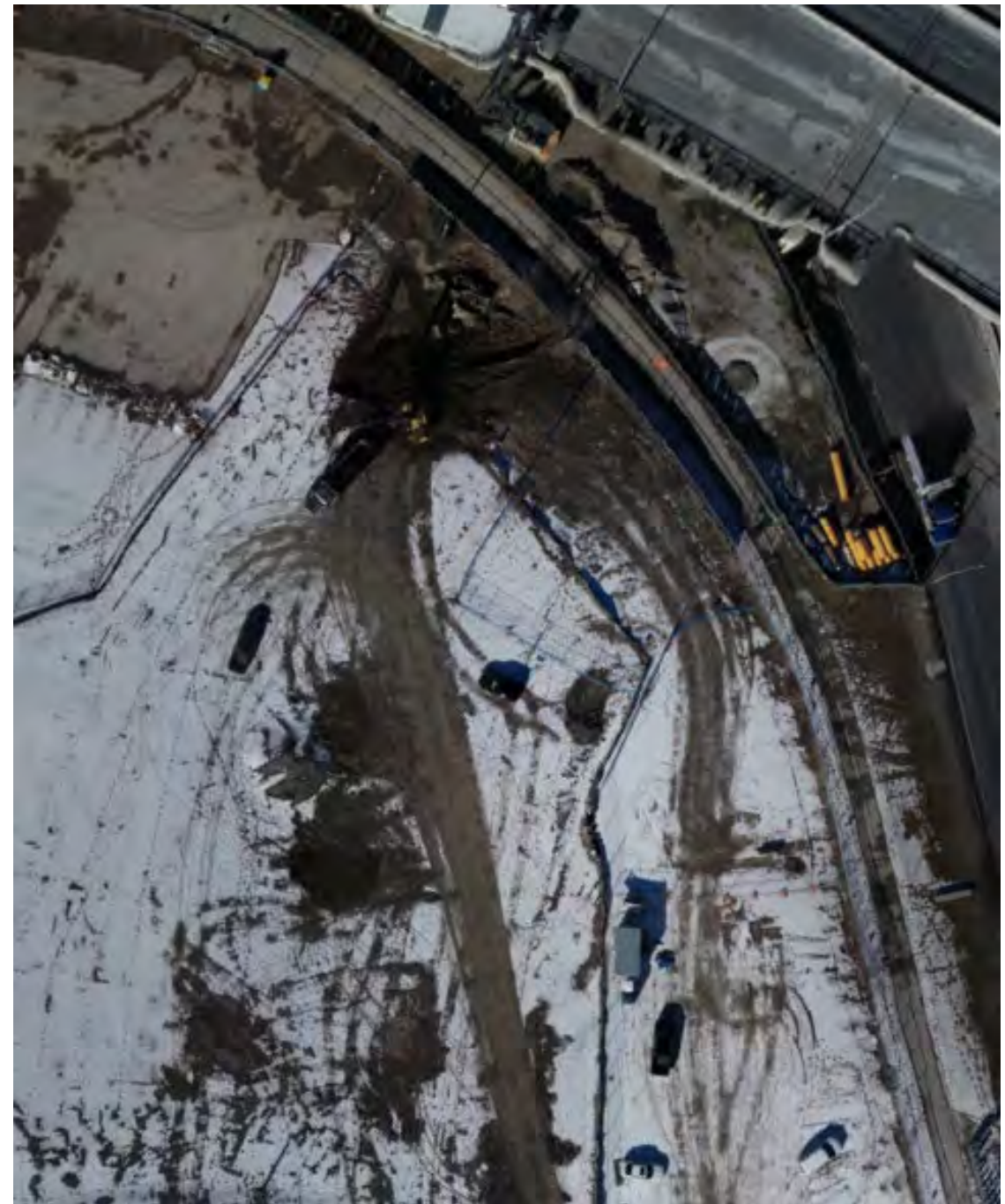




# Ongoing: New Cherry Street Alignment



Facing West





# Ongoing Construction: Water Treatment







Truck route 1

Road closed

# Completed Construction Work



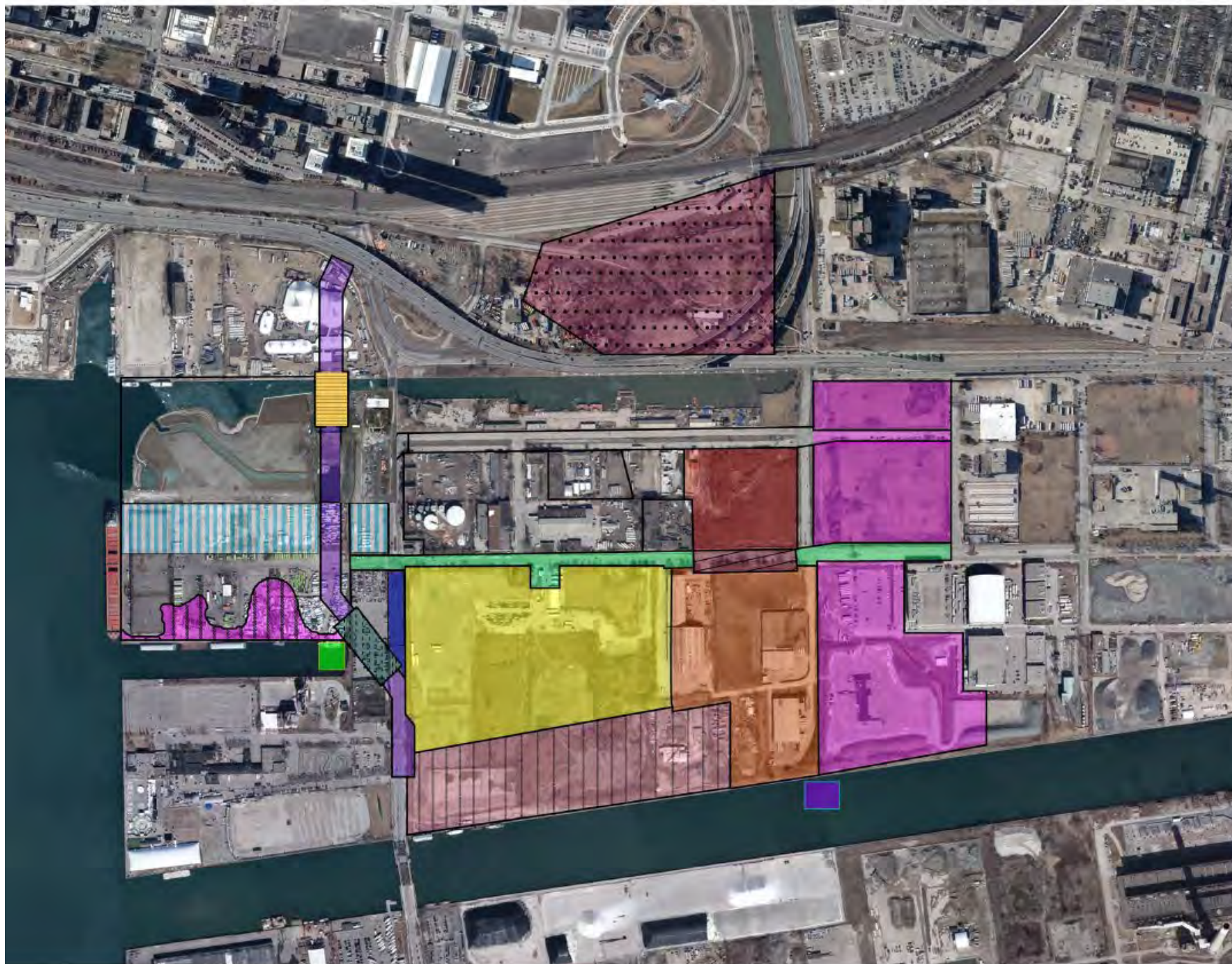
# Completed Work: Excavation – River Valley



# Upcoming Construction Work



## January - March 2021



**River Valley**  
• Dewatering

**River Valley**  
• Install cut-off walls  
• Dewatering  
• Excavation

**River Valley**  
• Install cut-off walls  
• Dewatering  
• Excavation

**New Cherry Street**  
• Pre-loading

**Existing Cherry Street**

**Commissioners Street**  
• Relocate Utilities  
• Surcharging

**Cherry Street North Bridge**

**Cherry Street South Bridge**

**Commissioners Street Bridge**  
• Foundation and substructure installation

**Water and Soil Treatment Area**  
• Water treatment facility  
• Soil treatment area

**Don Roadway Valley Wall Feature**  
• Stockpiling and soil treatment

**Sediment & Debris Management Area**  
• Site preparation  
• Stockpiling

**West Plug**  
• Install cut-off walls

**South Plug**

**Polson Slip Naturalization**  
• Marine works - naturalized shoreline  
• Rehabilitation of the Atlas Crane

**Former site of Marine Terminal 35**  
• Stockpiling



# Lake Shore Boulevard East – Bridge & Public Realm Project



# Project Overview

- Gardiner Expressway Ramps Demolition, from Bent 330 to the end of the ramps between Bouchette St. and Logan Ave.
- Don River Bridge Extension
- Lakeshore Boulevard East Reconfiguration



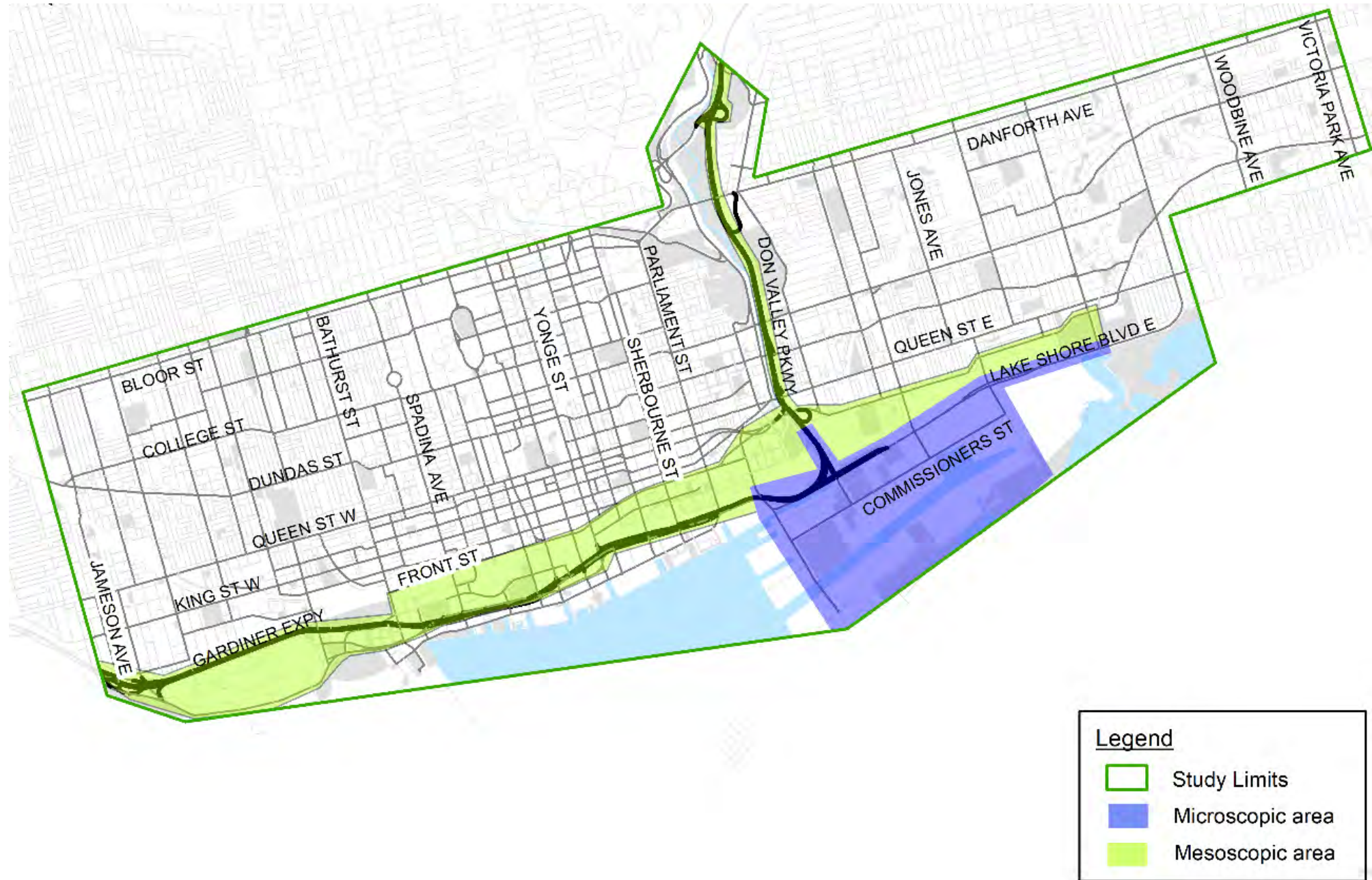
# Site Location & Schedule Overview

Activity	Anticipated Start	Anticipated End
Gardiner Ramps Closure	September 1st, 2021	-
Gardiner Ramps Demolition	September 2021	October 2021
Don River Bridge Works	October 2021	January 2024
Lakeshore Blvd. E Reconfiguration	November 2021	June 2024





# Transportation System Analysis





# Traffic Management Plan

## KEY TRAFFIC TRENDS

- Most Impacted trips still chooses to use Lake Shore Boulevard after Logan Ramps are removed.
- Small percentages will use E-W Links

## DESIGN MITIGATIONS TO INCLUDE:

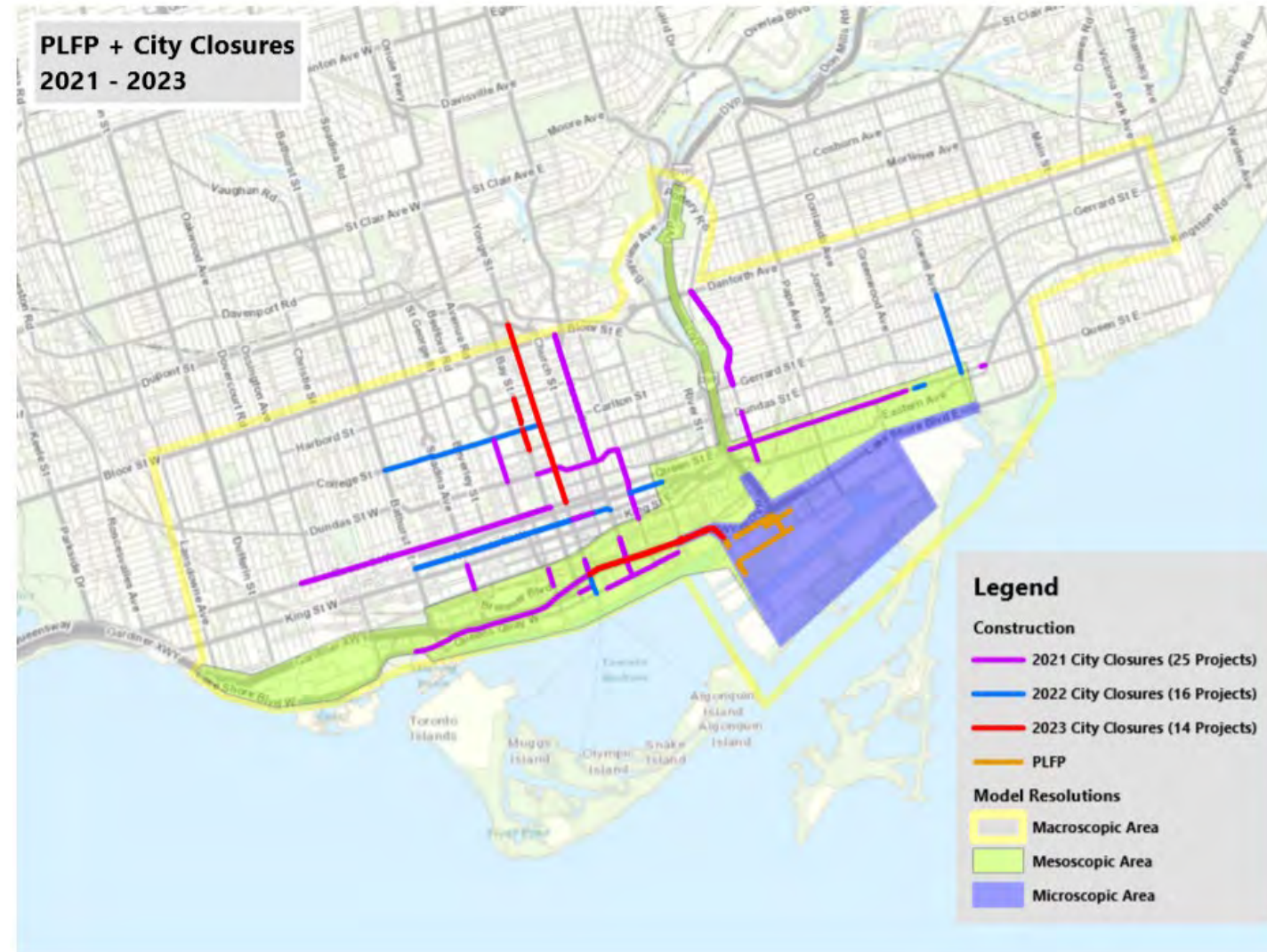
- Road reconstruction
- Signal timing adjustment
- Detour routes
- Strategic staging



# Construction Staging – Modelling Overview

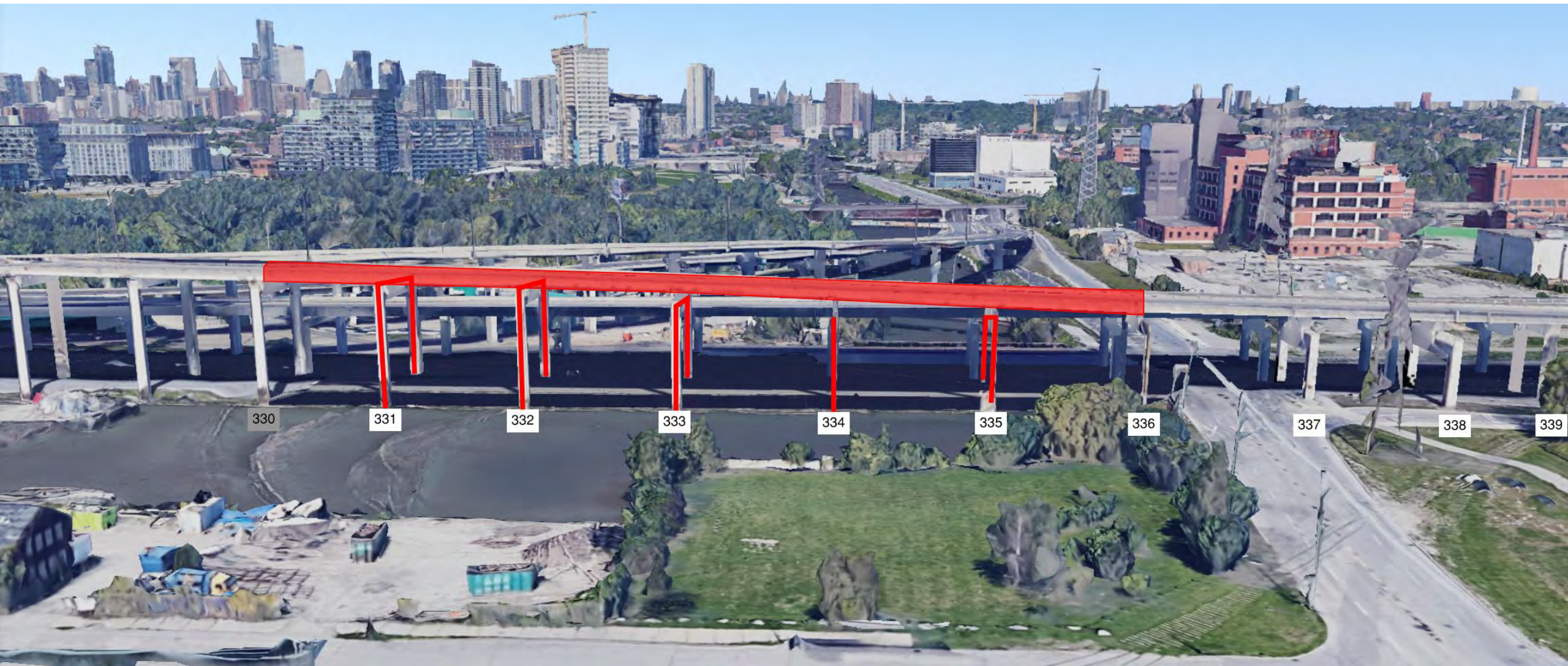
## 4 MAJOR CONSTRUCTION STAGING PERIODS:

1. STAGE 1 – Q4 2021
  - 24 City Closures
2. STAGE 2 – Q3 2022
  - 24 City Closures
3. STAGE 3 – Q2 2023
  - 22 City Closures
4. Stage 4 – Q4 2023
  - 22 City Closures



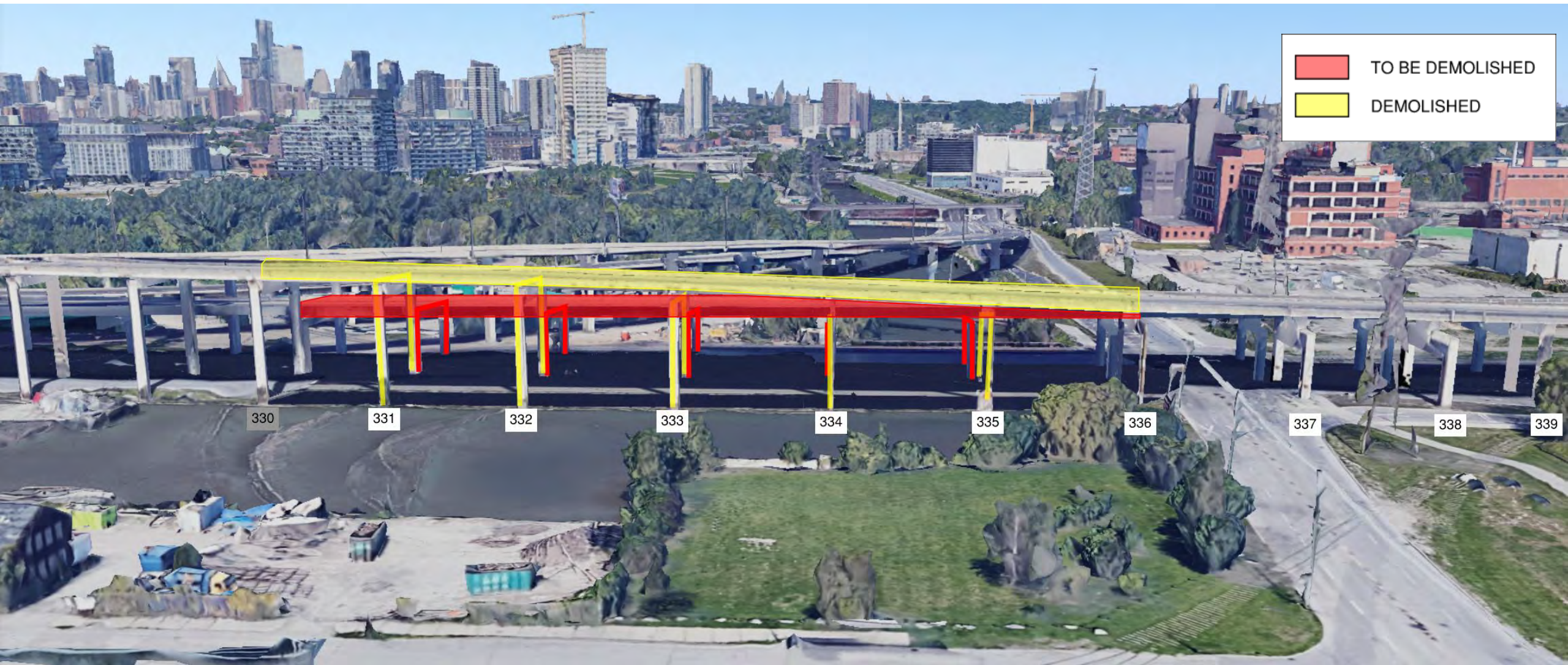


# Gardiner Ramps Demolition – Phase 1a





# Gardiner Ramps Demolition – Phase 1b





# Gardiner Ramps Demolition – Phase 1c





# Gardiner Ramps Demolition – Phase 2

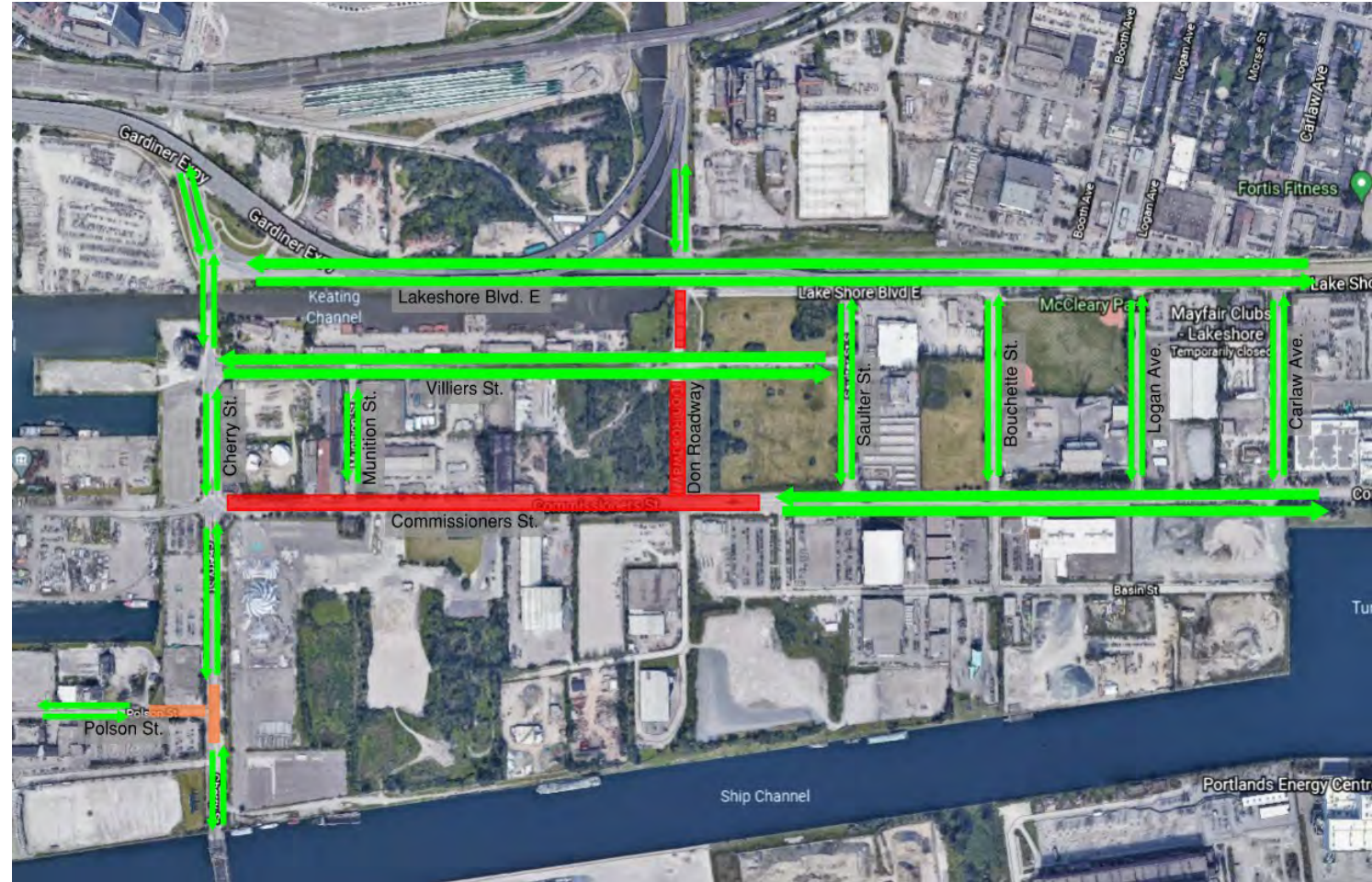




# Road Closures – Q3 2021 Gardiner Ramps to Lake Shore Closed

## CURRENT SCHEDULE:

- EB and WB Gardiner ramps are permanently closed – September 2021
- Lake Shore road construction for temp diversion – September to October 2021
- Don Roadway is closed from Lake Shore to Villiers – September 2021 to December 2024

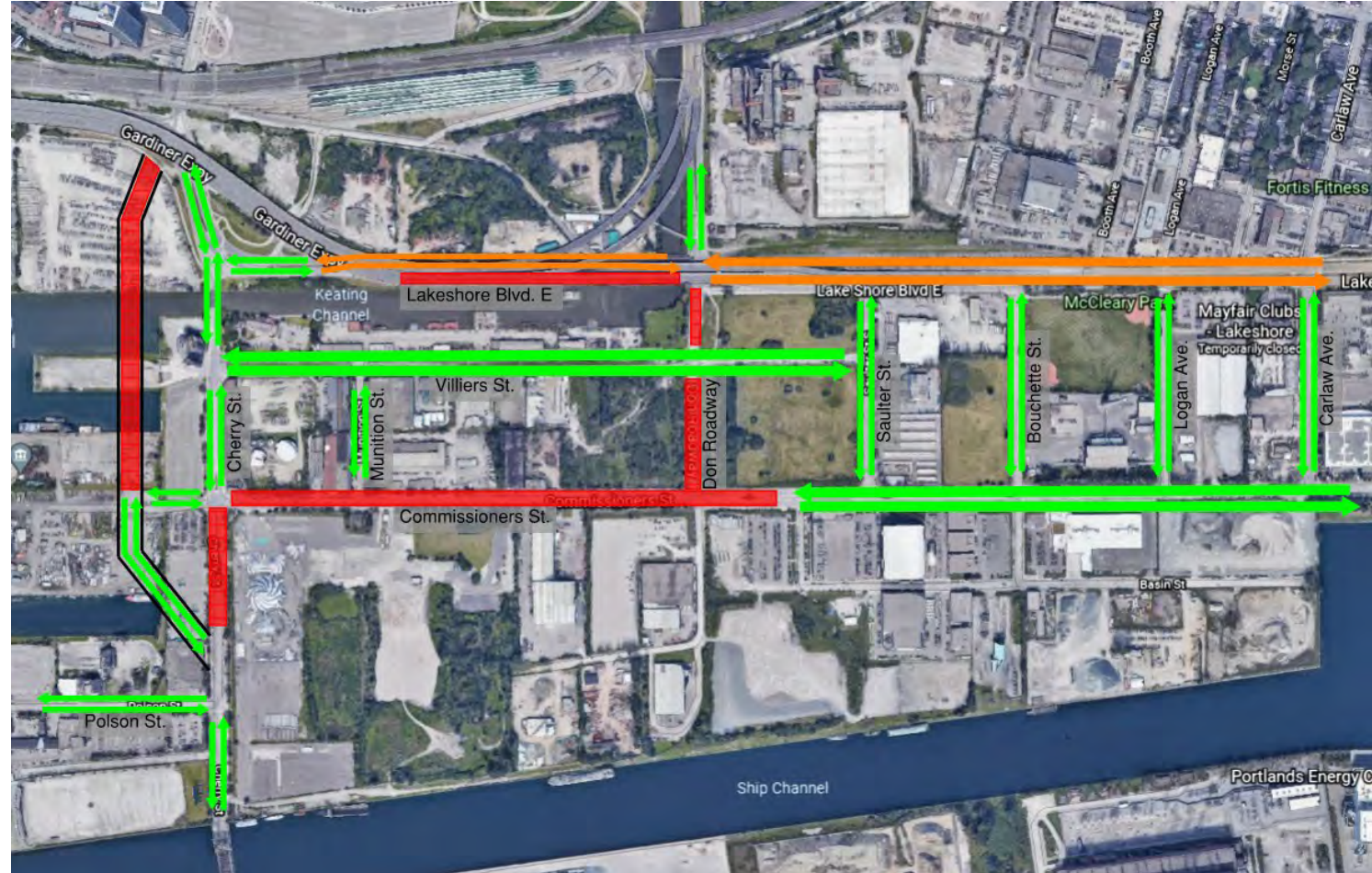




# Road Closures – Q4 2021 Gardiner Ramps to Lake Shore Closed

## CURRENT SCHEDULE:

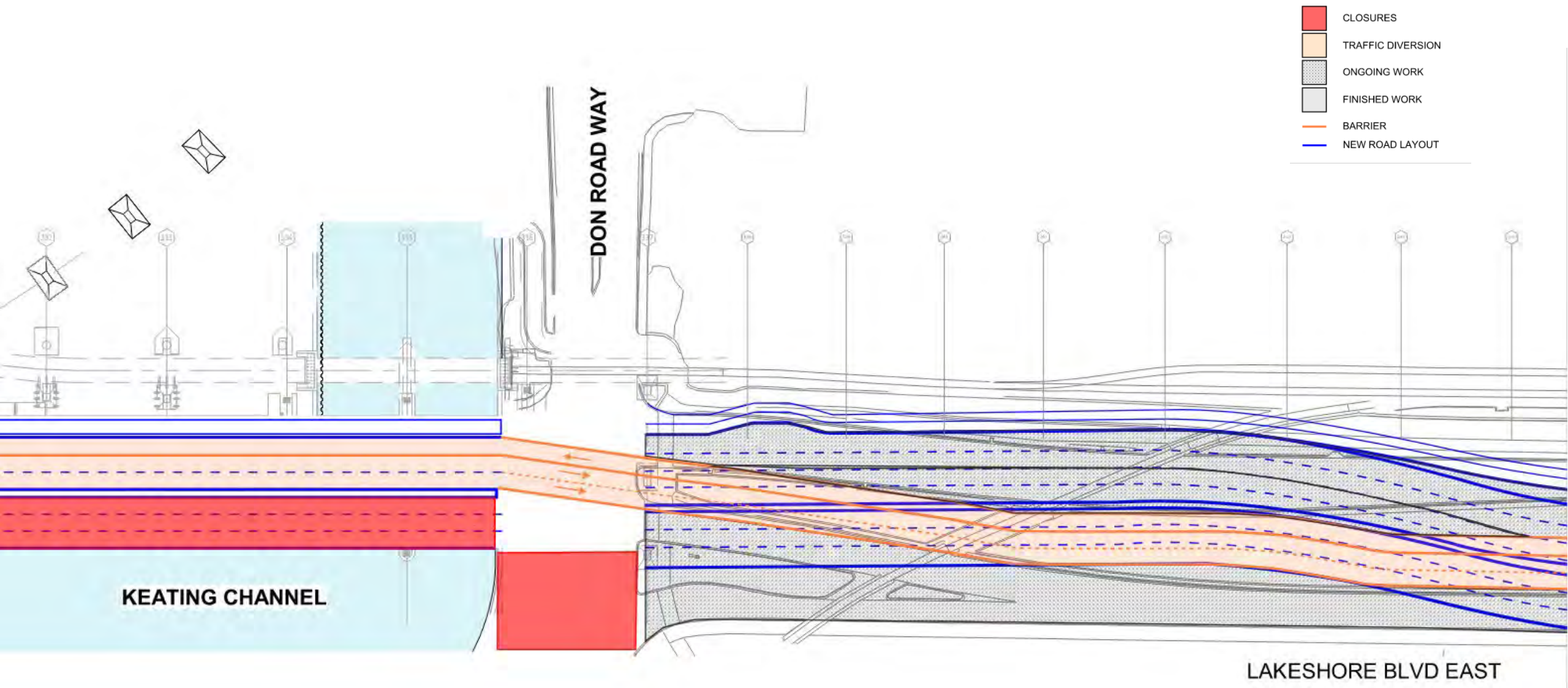
- Existing 3 westbound (WB) lanes on Lake Shore are converted to 2 EB + 1 WB lanes in October 2021
- New Cherry Street, from Commissioners to Polson Street is opened – November 2021
- Old Cherry Street between Polson and Commissioners is permanently closed – November 2021
- Commissioners between Old Cherry and New Cherry is open – November 2021





# Traffic Configuration Don Roadway – Lake Shore Blvd. E

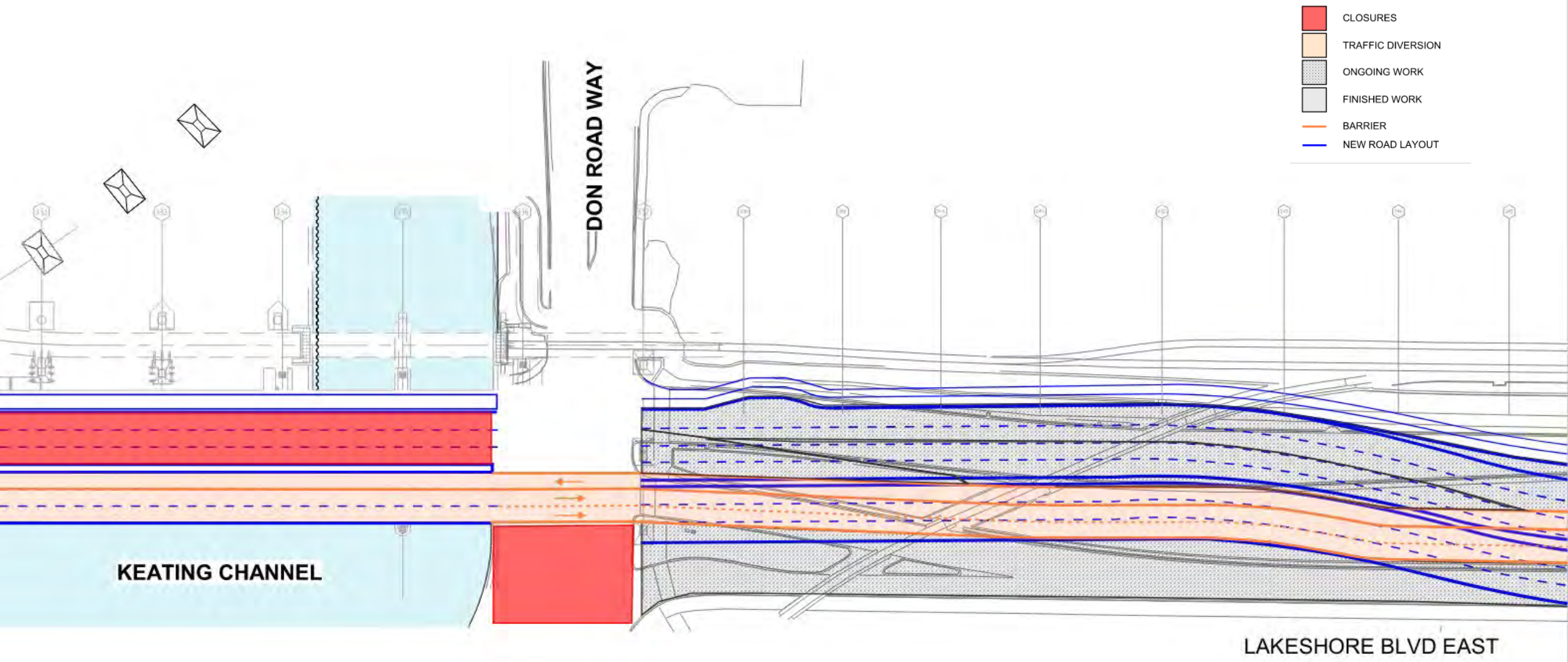
October 2021 – Spring 2023





# Traffic Configuration Don Roadway – Lake Shore Blvd. E

Spring 2023 – Summer 2024

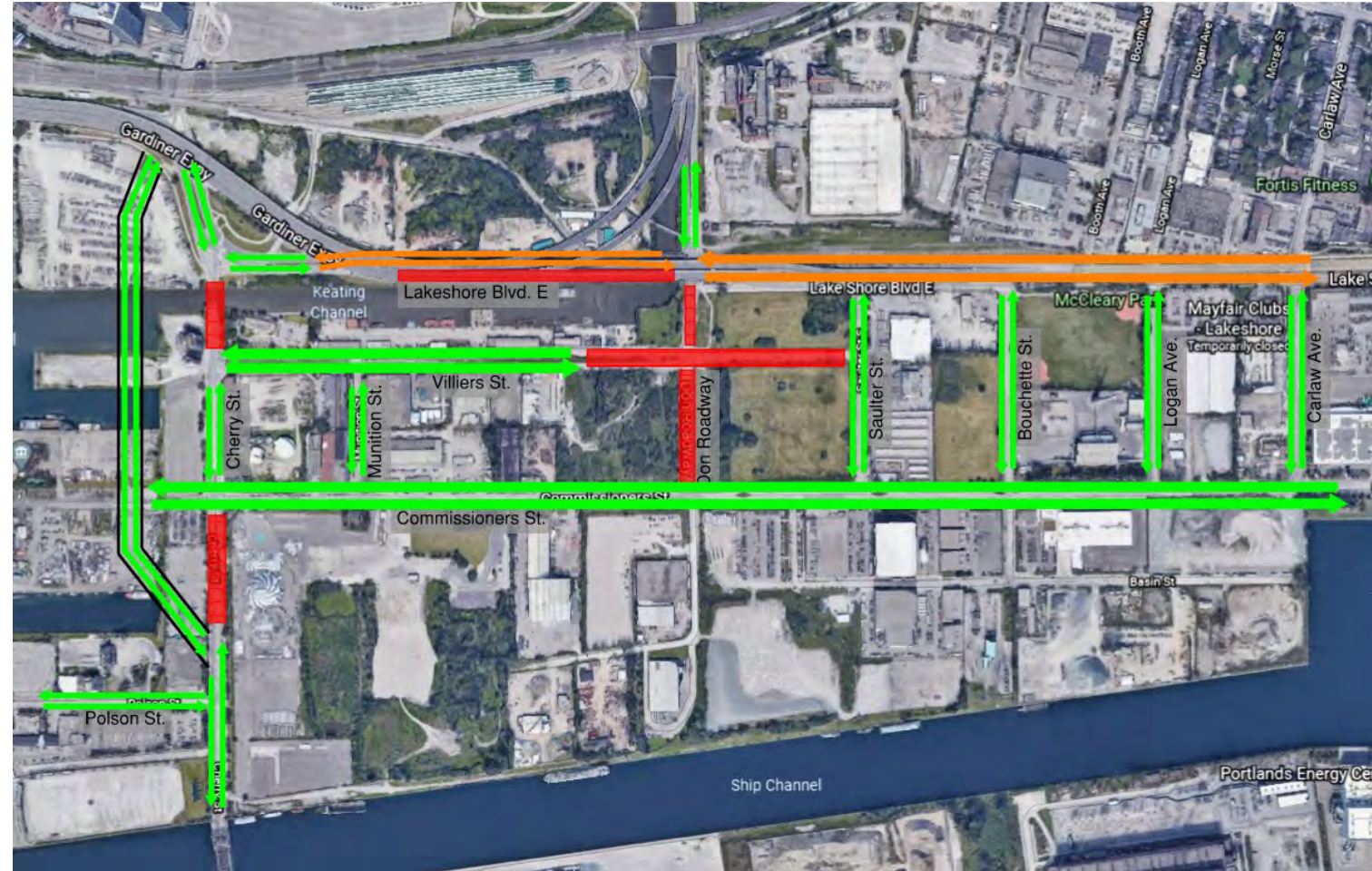




# Road Closures – Q3 2022

## CURRENT SCHEDULE:

- Commissioners Street opened – August 2022
- Old Cherry Street bridge over Keating Channel is permanently closed – August 2022
- Villiers closed between Saulter Street and 400m west of Don Roadway – August 2022

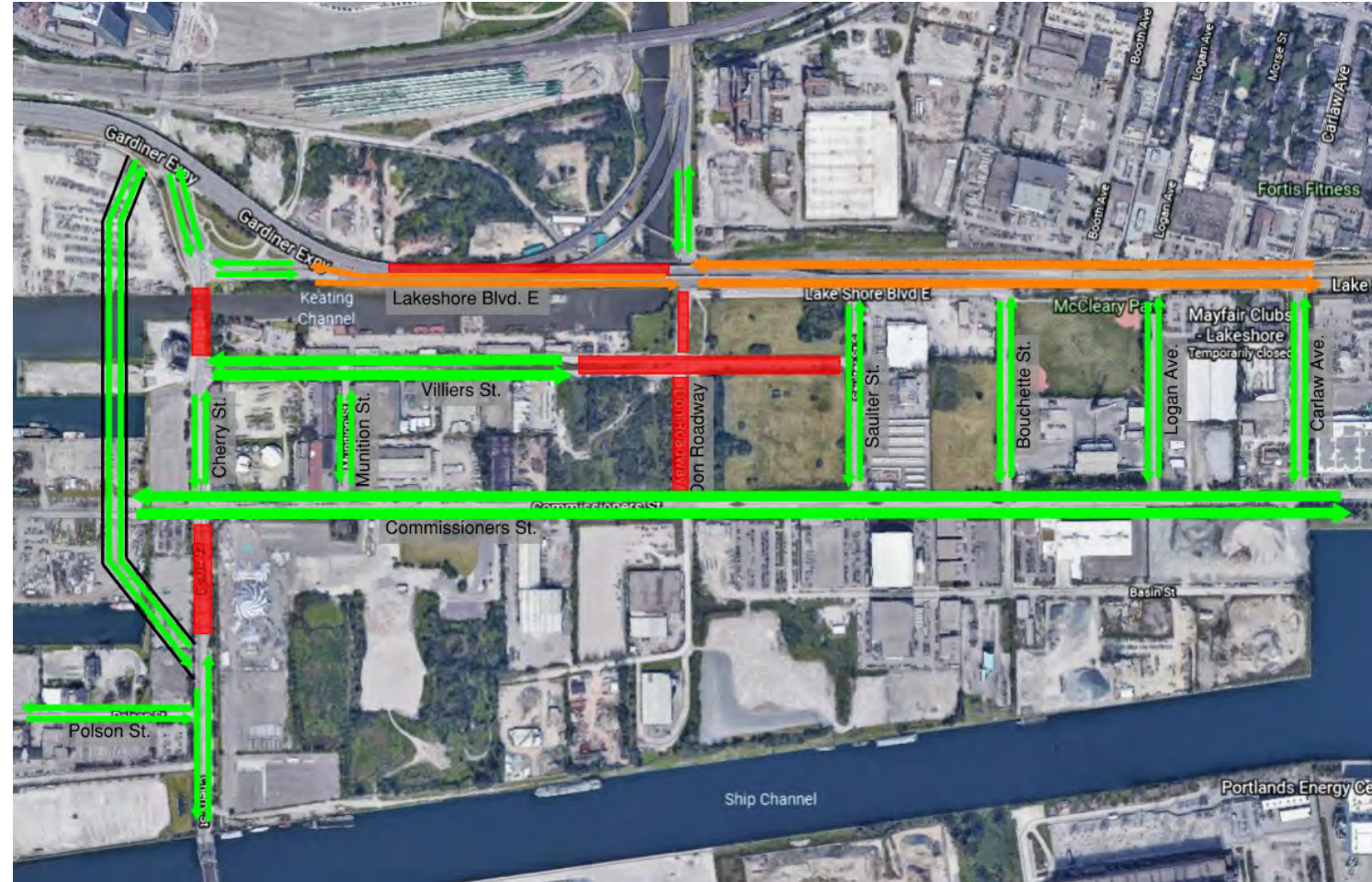




# Road Closures – Q2 2023

## CURRENT SCHEDULE:

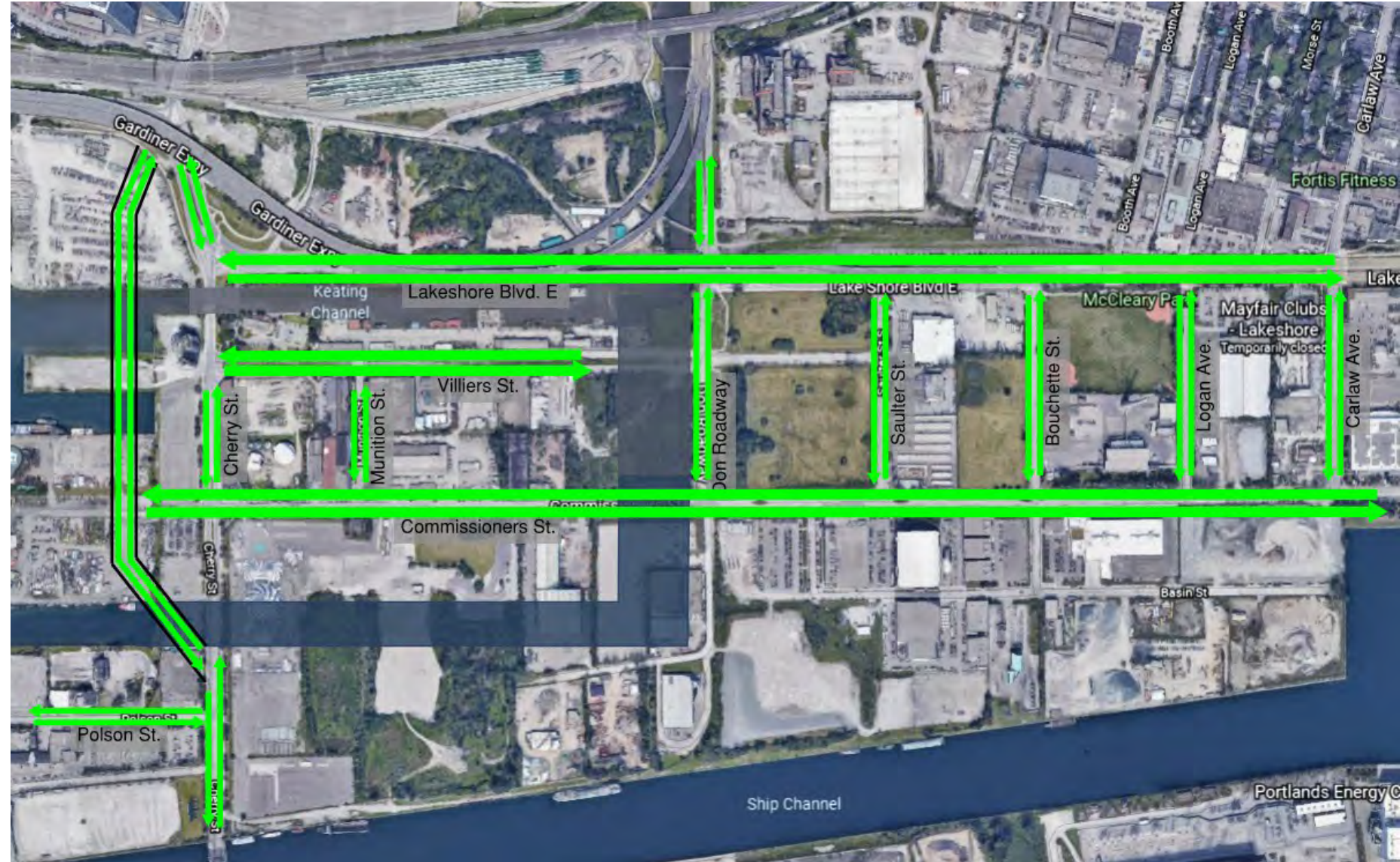
- Closed Lake Shore westbound bridge west of Don Roadway – April 2023 to December 2024
- Convert existing Lake Shore 3 eastbound lanes into 2 EB + 1 WB lanes – April 2023 to December 2024





# Road Opening – Q4 2024

- All roads are opened





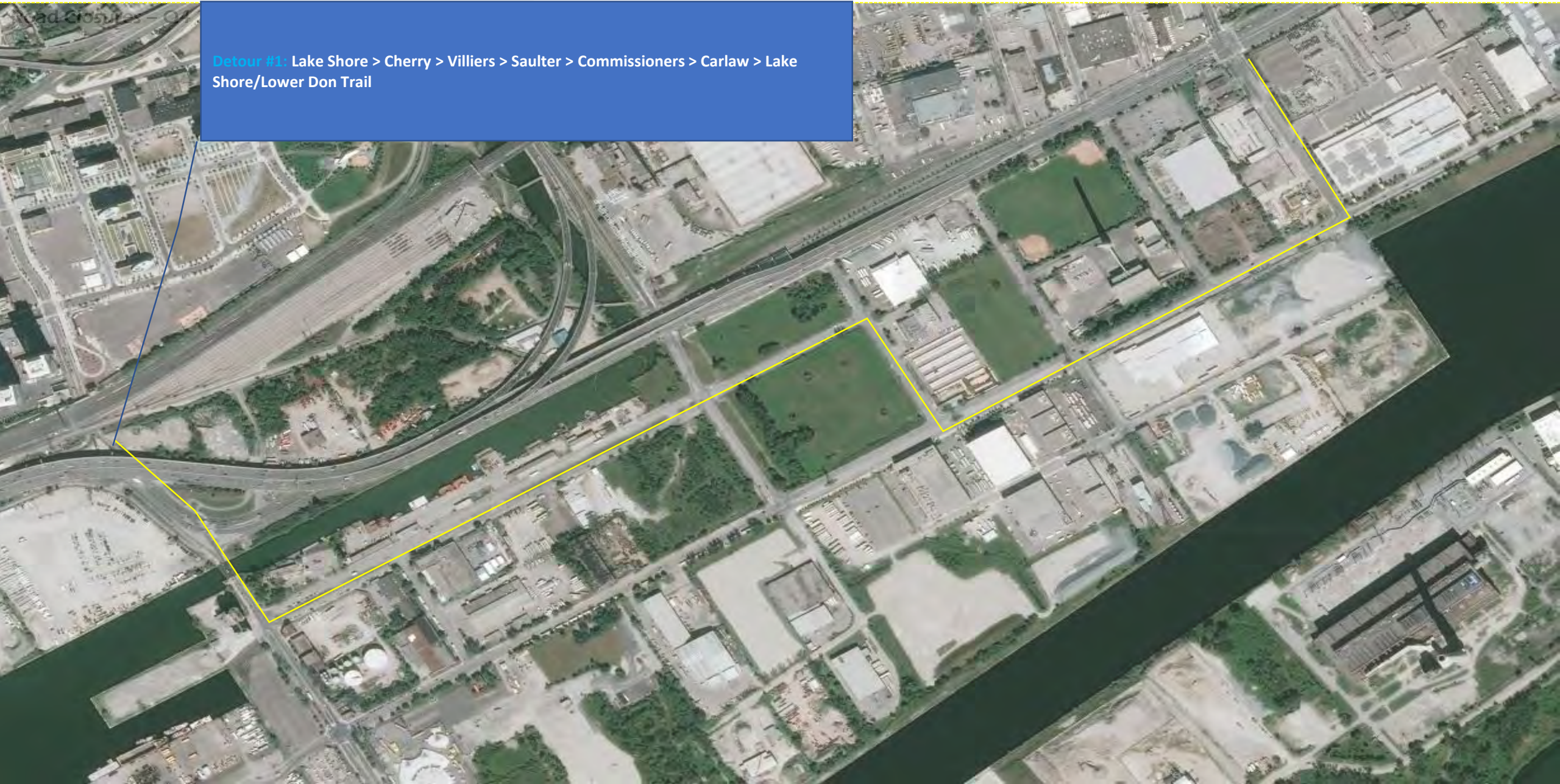
# Lower Don Trail Detour Design – North of Lake Shore





# Lower Don Trail Detour Design – South of Lake Shore

**Detour #1:** Lake Shore > Cherry > Villiers > Saulter > Commissioners > Carlaw > Lake Shore/Lower Don Trail





# Discussion and Feedback