



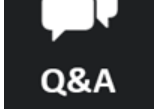
**Forks Road
Reconstruction
&
Bridge Replacement**

PUBLIC INFORMATION CENTRE

AUGUST 19, 2021

6-8 PM

How will this work?

- Please type questions into the  box.
- We will review and answer them at the end.
- Your webcam and microphone will be disabled and muted.
- Project contact information will be provided.
- This presentation is being recorded and will be made available.



Project Team

Upper Canada Consultants

- Adam Keane, P.Eng., LEED AP – Engineering Manager

WSP Canada Inc.

- Kyle Yusek, P.Eng. PMP – Project Manager/Bridge Engineering
- Andrew Roberts – Environmental Lead

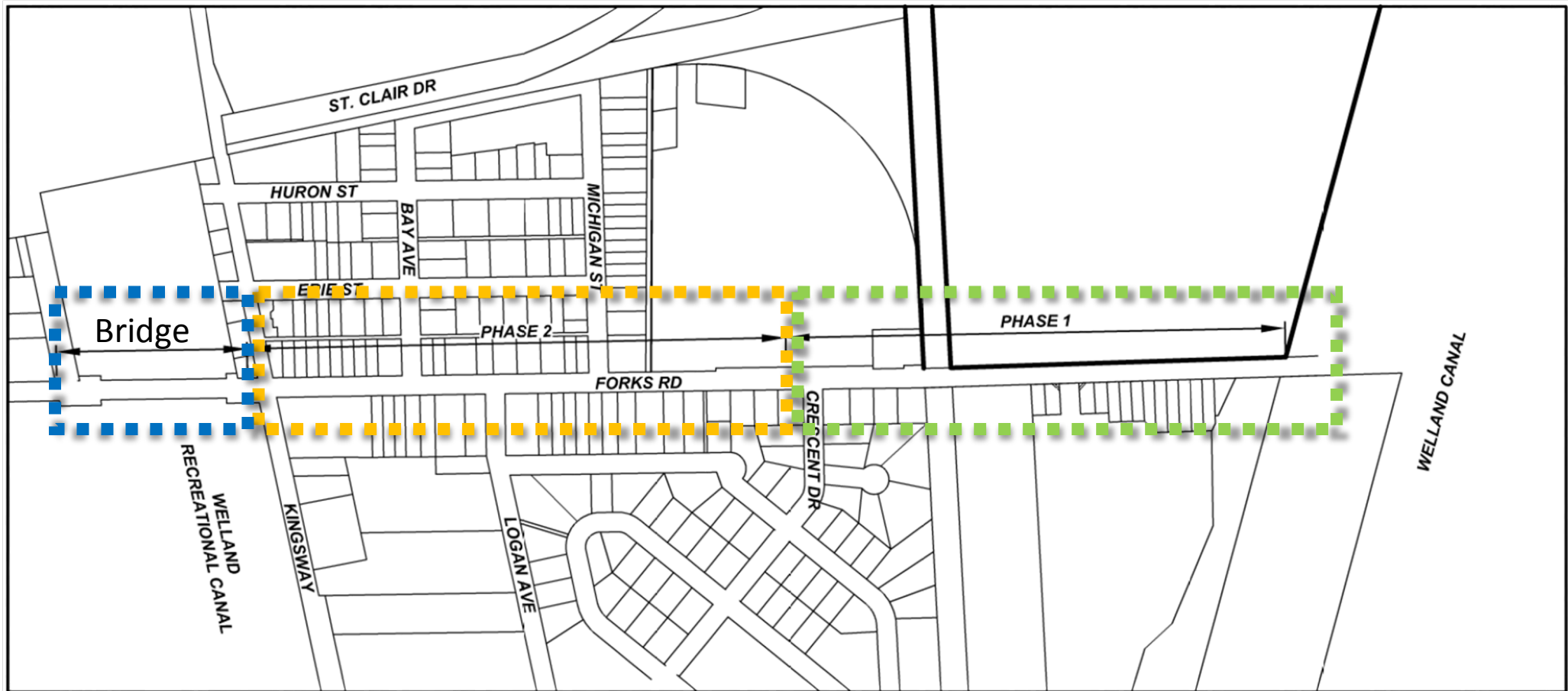
City of Welland

- Sherri-Marie Millar, P.Eng. – Director of Infrastructure Services/City Engineer
- Livia McEachern, P.Eng. – Manager of Engineering Infrastructure Services

Meeting Outline

- Project Limits
- Forks Road Reconstruction & Phasing
- What to Expect During Construction
- Forks Road Bridge Overview
- Future Projects
- Questions

Project Limits



Forks Road Reconstruction - Phase 1

Crescent Drive to East Limit (Sept - Dec 2021)



- Sanitary Sewer/Laterals
- Watermains/Services
- New Sidewalks (Both Sides)
- Bicycle Lanes (Both Sides)
- Streetlights
- Curb and Gutter
- Driveway Aprons
- Sod (Late 2021 or Early 2022)

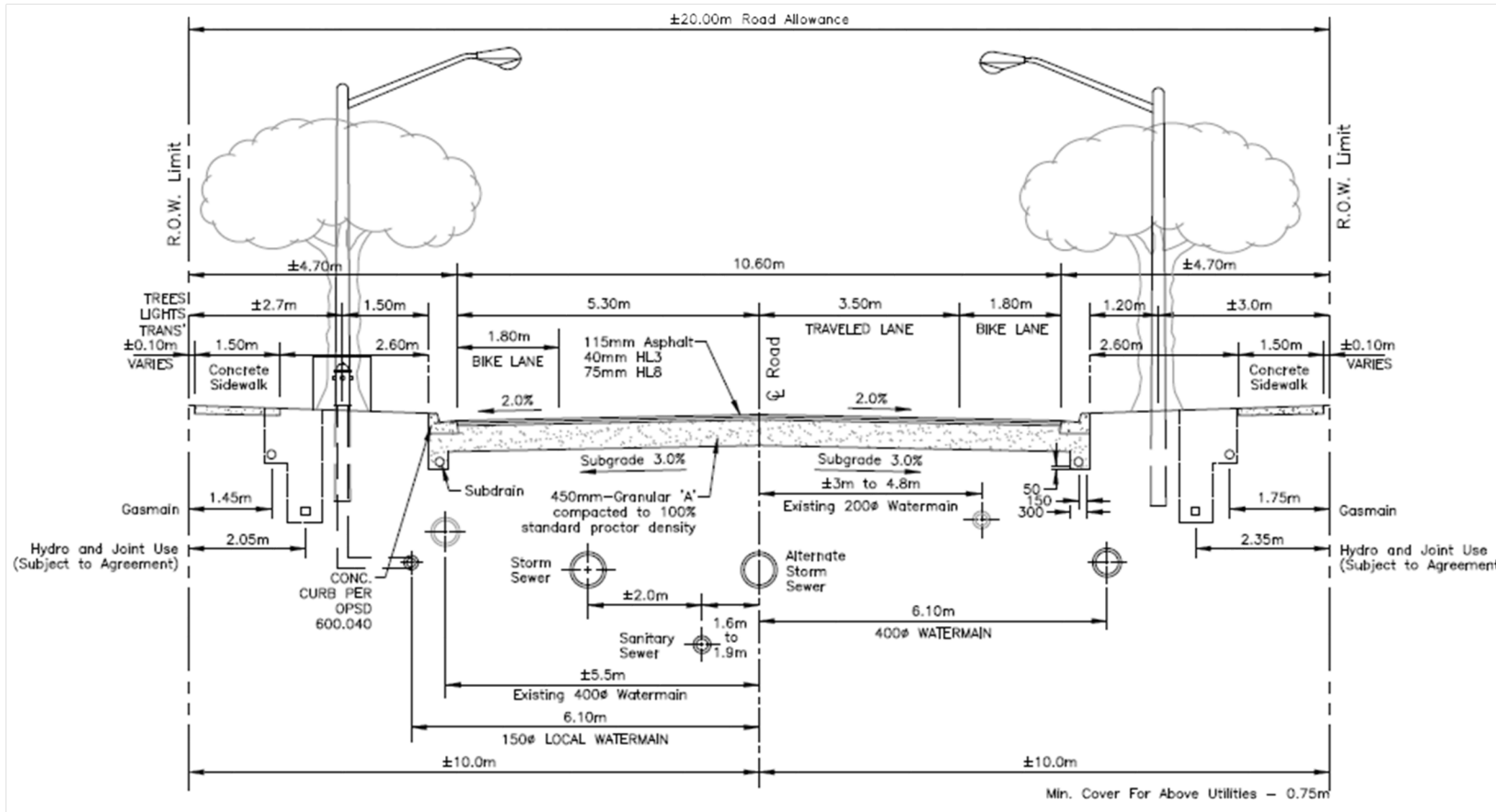
Forks Road Reconstruction - Phase 2

Kingsway to Crescent Drive (Spring - Fall 2022)



- Sanitary Sewer/Laterals
- Watermains/Services
- New Sidewalks (Both Sides)
- Bicycle Lanes (Both Sides)
- Streetlights
- Curb and Gutter
- Driveway Aprons/Sod
- Signals at Kingsway (Future)

Forks Road Cross Sections (Phase 1 & 2)



- Designated as a 'Collector Road'.
- Right-of-way generally 20m wide.
- Concrete sidewalks both sides (1.5m wide minimum).
- Dedicated 1.8m wide bicycle lanes each direction.
- Travel Lanes are 3.5m wide.

Construction - Traffic Controls/Closures

Phase 1 (Crescent Drive to East Limit)

- No Alternative Access.
- One-Way traffic with Flag Persons.
- Open to Two-Way traffic at Night and Weekends.

Phase 2 (Crescent Drive to Kingsway)

- Alternative Access.
- One-Way traffic with Flag Persons.
- Open to Two-Way traffic at Night and Weekends.

Please Understand and Expect Delays

Construction - Watermain/Sewer Installation

Watermain

- New Water Service to the Property Line
- New Curbstop (box)
- Notices will be provided to Residents
- Short interruption during reconnect

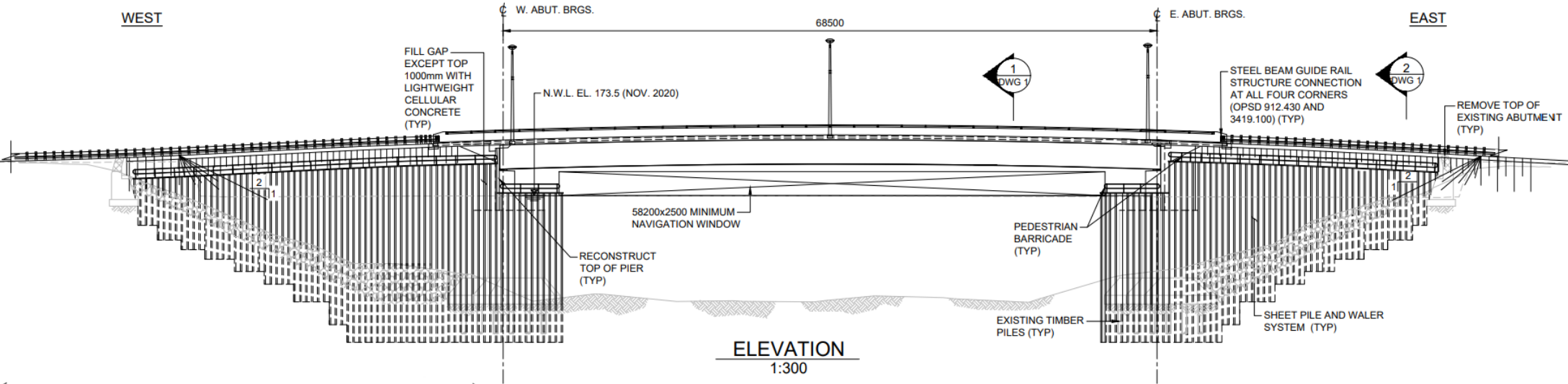
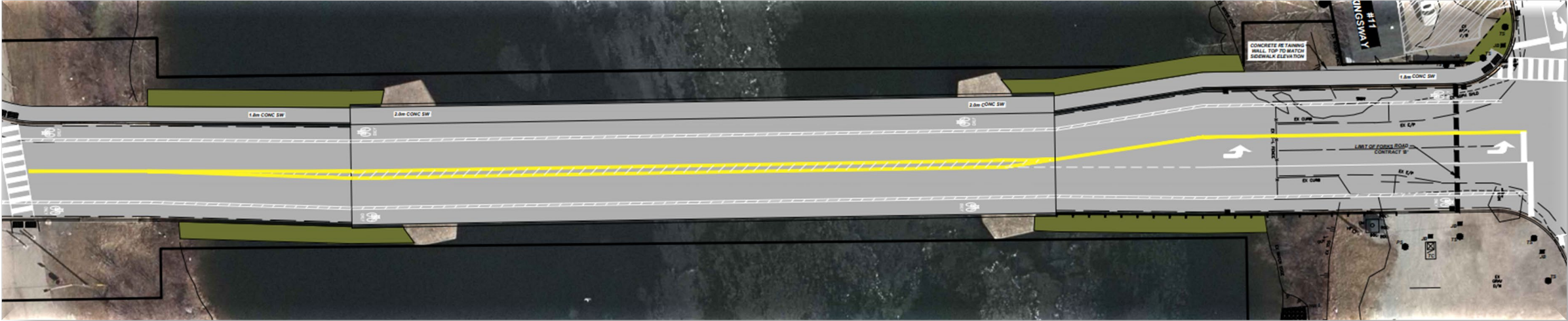
Sanitary Sewer

- New Sanitary Lateral to Property Line
- New Cleanout

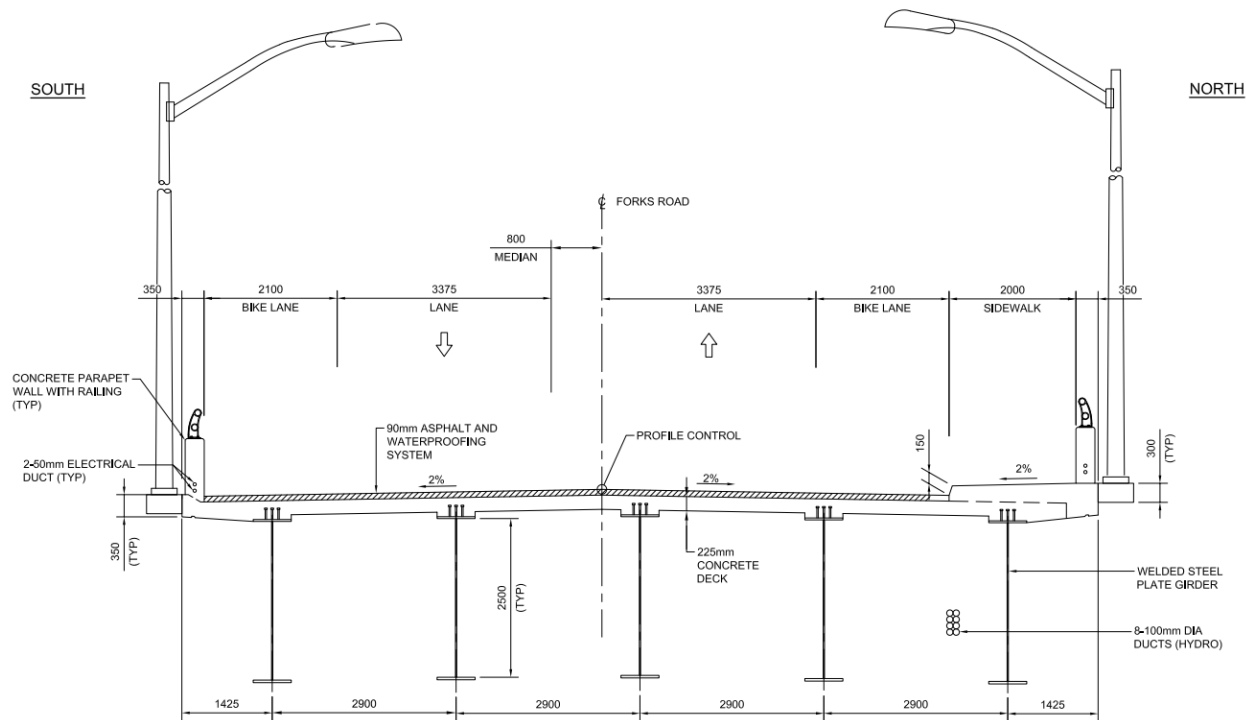
Construction - Impacts to Private Property

- New Concrete Curb & Gutter and Sidewalks
 - No access to driveways while concrete is being placed and during curing.
 - Notices will be provided.
- Landscaping
 - Topsoil and sod will be placed after excavation.
 - Please remove any private items (plants/decorations) from the municipal right-of-way.
 - Sod placement will occur late (2021) weather permitting.
 - Any disturbance to private property (lawns) as a consequence of construction, will be restored.
- Driveways
 - Any disturbance to private driveways as a consequence of construction, will be restored.
 - Repairs will match existing (i.e. asphalt, concrete).
 - Cannot match decorative concrete.

Forks Road Bridge (2022-2024)



Forks Road Bridge



- New structure will have a 75-year design life.
- Structure will accommodate two lanes of traffic, two bicycle lanes, and one sidewalk.
- Single span steel girder superstructure, supported by the existing piers.
- Approaches to piers will be infilled with containment provided by steel sheet piling.

Forks Road Bridge

Preliminary Construction Schedule

- Commence construction early 2022.
- Complete construction late 2024.

Work Restrictions

- Work will accommodate restrictions (in-water work timing windows, sediment and erosion control, fish rescue when in-filling sheet piling).



Forks Road Bridge

Impact Assessment

- The Site occurs on federal lands within the City of Welland and is therefore subject to Section 82 of the federal Impact Assessment Act (IAA).
- A standardized approach is taken to identify potential environmental effects and to propose the appropriate avoidance, minimization and mitigation strategies
- These have been identified and presented to Infrastructure Canada (IC) and are currently under review. IC has proposed some additional mitigations, and the Project is waiting for comment from the Department of Fisheries and Oceans (DFO)
- In general impacts relate to fish and fish habitat, vegetation clearing, and construction impacts such as dust and noise.

Forks Road Bridge

Effects and Mitigation: Fish and Fish Habitat Highlights

- Design and plan activities and works such that loss or disturbance to aquatic habitat is minimized and sensitive spawning habitats are avoided to the extent possible.
- This is accomplished with avoiding In-water works between March 1 to July 1, per the Ministry of Natural Resources and Forestry (MNR) directive.
- In-water construction activities around the piers will be completed in way to ensure that no aquatic species are trapped; this will be accomplished through a fish rescue plan and supervision by ecologists during construction
- A design-specific erosion and sediment control (ESC) will be developed in accordance with direction provided regulatory authorities. The plan will consider in-water turbidity which may require use of a turbidity curtain, other methods to control turbidity, and ongoing construction monitoring.
- Fish habitat compensation requirements will be confirmed by DFO and will be part of the overall construction and rehabilitation plan.

Forks Road Bridge

Other Environmental Mitigation Highlights

- Limited vegetation clearing to be completed outside of the seasonal breeding bird window (April 1st to August 31st).
- Restoration plans for disturbed vegetated areas will be completed including stabilization of slopes, and the use of appropriate seed mixes and plantings. This will be developed in consultation with the NPCA and other authorities as appropriate.
- Construction equipment to be maintained and in good working order.
- No refueling will be permitted in close proximity to the Canal, and a project-specific spills action plan will be developed for construction.

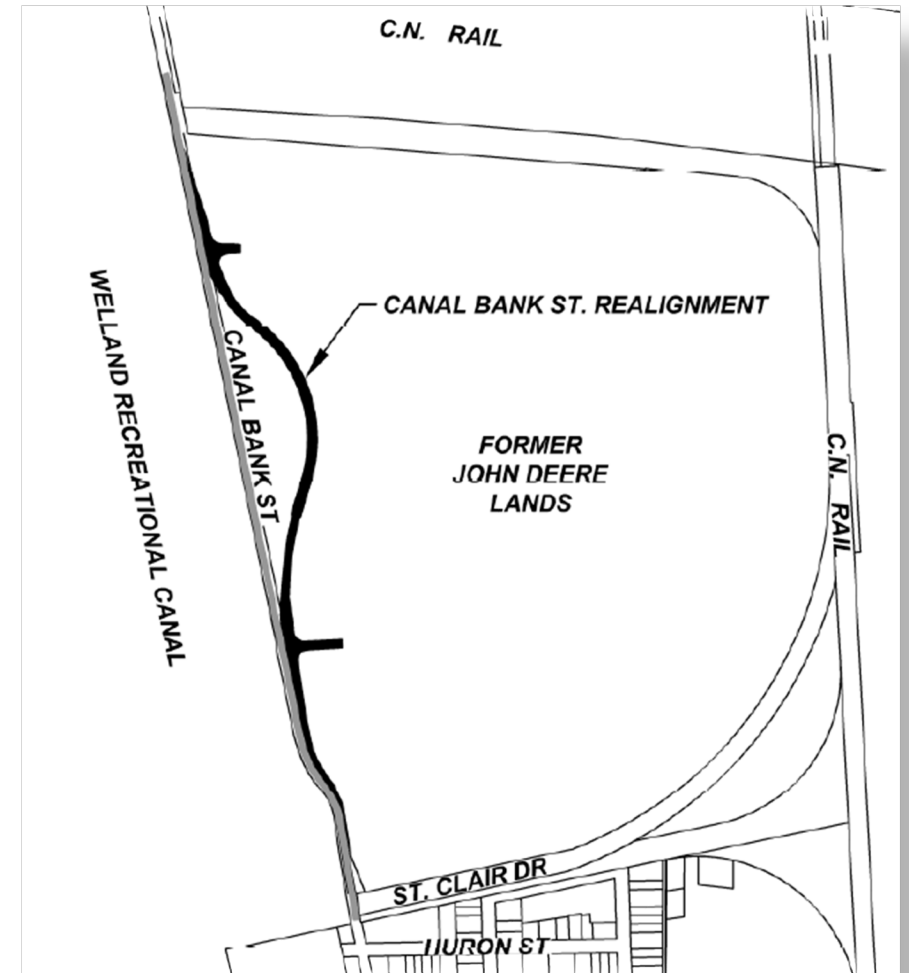
Forks Road Bridge

Wildlife Passage

- Based on field habitat assessments, small mammals and water fowl likely use the banks in the area as a limited movement corridor.
- The habitat that is available along the canal is limited, so it is assumed that wildlife are simply taking advantage of the open water, as opposed to any north-south movement over a significant distance. The bridge reconstruction will not limit overall access to the water.
- The location does not represent a significant migratory corridor that is being interrupted, nor is there any species at risk (SAR) habitat being destroyed. It is anticipated that wildlife will continue to use the open portion of the canal for movement (i.e. pass under the bridge).
- The feasibility of installing a culvert-type structure through the sheet pile to permit wildlife movement was investigated, however, this is not a feasible option from a structural design perspective.

Canal Bank Street (Future Project)

- Designated as an 'Arterial Road'.
- Right-of-way generally 30m wide.
- Travel Lanes - 3.5m wide in each direction.
- Roadside Parking - 2.5m wide.
- Concrete Sidewalk - 1.5m wide.
- Multi-use Trail - 3.0m wide.



Questions

Send additional comments/questions to the City
(by September 2nd, 2021)

eng@welland.ca

THANK YOU FOR YOUR PARTICIPATION