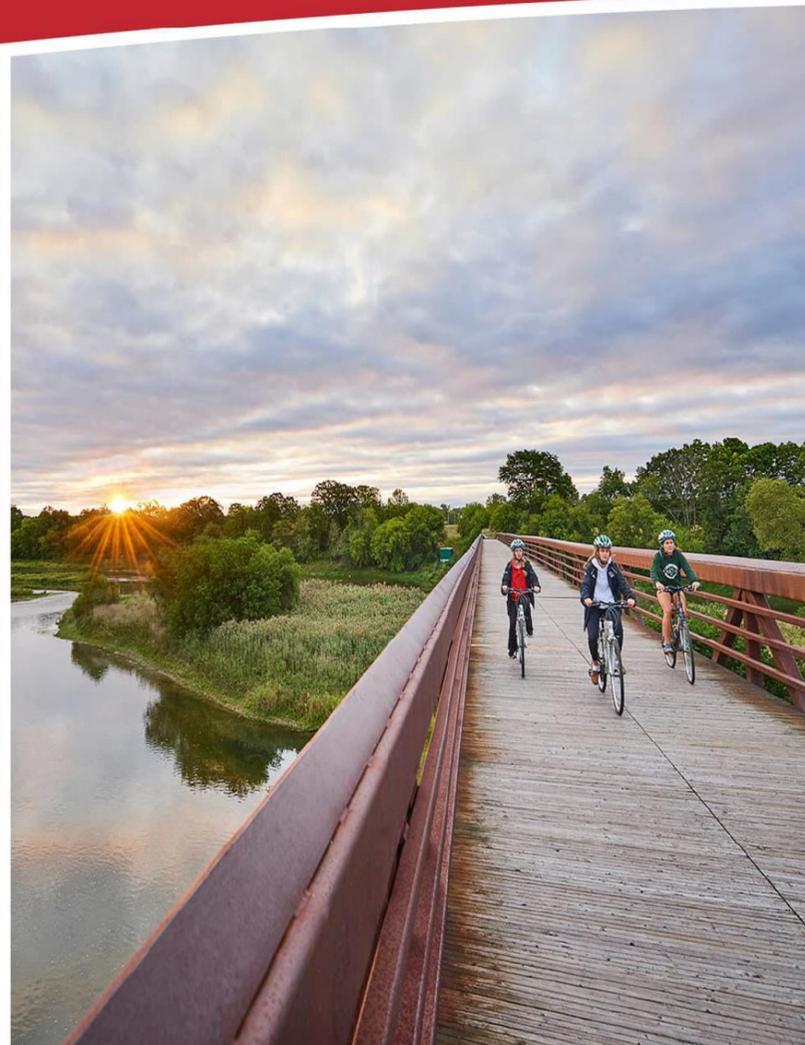


Ava Road Bridge Replacement Detail Design Public Meeting



WELCOME TO THE PUBLIC MEETING FOR AVA ROAD BRIDGE REPLACEMENT

The purpose of this Public Meeting is to provide the public with information regarding the design and construction of Ava Road Bridge and intersection improvements.

Representatives from the City of Brantford, Ward Councilor's office and their consultant, McIntosh Perry, are available to discuss the project and answer any questions.

Please sign in before leaving.

CITY OF
BRANTFORD



Project Area

Ava Road is located in the west end of Brantford and runs parallel to the Canadian National Railway (CNR) from Hardy Road to Brant Avenue, where it crosses the CNR. The Ava Road Bridge is located between Paris Road and Brant Avenue, and crosses two (2) CNR tracks and a service road.

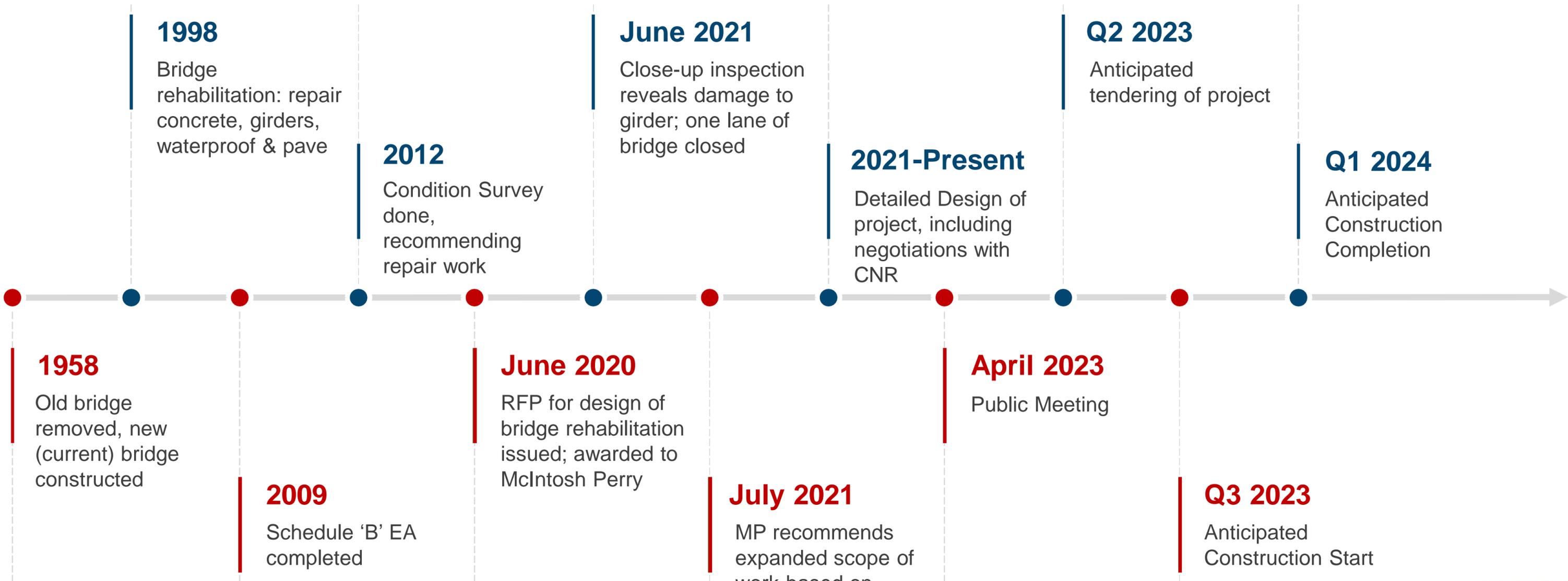
Purpose of Project

The scope of work includes replacement of superstructure and rehabilitation of substructure for the Ava Road Bridge, reconstruction of the Ava Road/Brant Avenue intersection and bridge modification, and the replacement of a 150 mm watermain crossing through Ava Road/Brant Avenue intersection,

The City of Brantford retained McIntosh Perry to undertake the preliminary and detailed design for the Ava Road Bridge rehabilitation, including improvements to the adjacent intersections at Ava Road/Brant Avenue and Paris Road/Terrace Hill Street.



Project Timeline



Project Details

Rehabilitation of the Ava Road Bridge

A Schedule 'B' Municipal Class Environmental Assessment (MCEA) study was undertaken in 2009 for the Ava Road Bridge. The MCEA identified a Technically Preferred Alternative (TPA) for the rehabilitation of the Ava Road Bridge, as well as improvements to the adjacent intersections and upgrades to pedestrian linkages between neighborhoods; however, construction of the TPA was never implemented and the MCEA expired.

Replacement of the Ava Road Bridge Superstructure

As part of the current Preliminary and Detail Design process, City of Brantford and McIntosh Perry refined the scope of work based further assessment of the bridge. The new scope of work consists of:

- Replacement of the bridge superstructure;
- Relocation of the pedestrian sidewalk to the west side of the bridge;
- Intersection reconfiguration at Brant Avenue and Ava Road;
- Installation of a signalized pedestrian crossing at Paris Road and Terrace Hill Street, and
- Watermain replacement along Ava Road.

Based on the MCEA document, the new scope of work falls within the pre-approved **Schedule A+** undertaking and as such, is not subject to completion of an Addendum to the original Schedule B Environmental Assessment.

Project Studies and Investigations



Social Environment

- Cultural Heritage Resource Evaluation
- Stage 1 Archaeological Assessment Report
- Public Consultation
- Land Use Review



Natural Environment

- Natural Environment Field investigation including Species at Risk Review



Technical Environment

- Site Survey
- Structural Evaluation Report
- Traffic Impact Assessment Report



Economic Environment

- High-Level Cost Estimates
- Lifecycle Costs Analysis

Existing Conditions

Wildlife and Species at Risk

- No nests were observed on bridge at the time of the inspection; however, the general study area can provide habitat for several species of migratory birds and wildlife and potentially Species at Risk (SAR).
- No SARs were observed, nor are they generally known to be present within and adjacent to the Ava Bridge study area.

Archaeological & Built Cultural Heritage

- A Stage 1 Archaeological Assessment of the surrounding lands identified that a small area requires a Stage 2 Archaeological Assessment on the east embankment east of the bridge as a result of potential construction impacts. Currently being completed
- The Cultural Heritage Evaluation Report found that the Ava Road Bridge does not meet any of the criteria for determining cultural heritage value or interest as outlined in Ontario Regulation 9/06.

Vegetation

- The surrounding landscape consists of forested areas along the CNR, open areas, manicured/mown grass and landscaped areas, with a mix of native and non-native species.
- No rare species or vegetation communities were found.

Social Environment

- The lands adjacent to the structure consist primarily of residential properties, with a school, W. Ross Macdonald School, located at the south.
- Brantford General Hospital is located approximately 0.6 km east of the bridge.
- The Ava Road Bridge crosses Canadian National Railway.

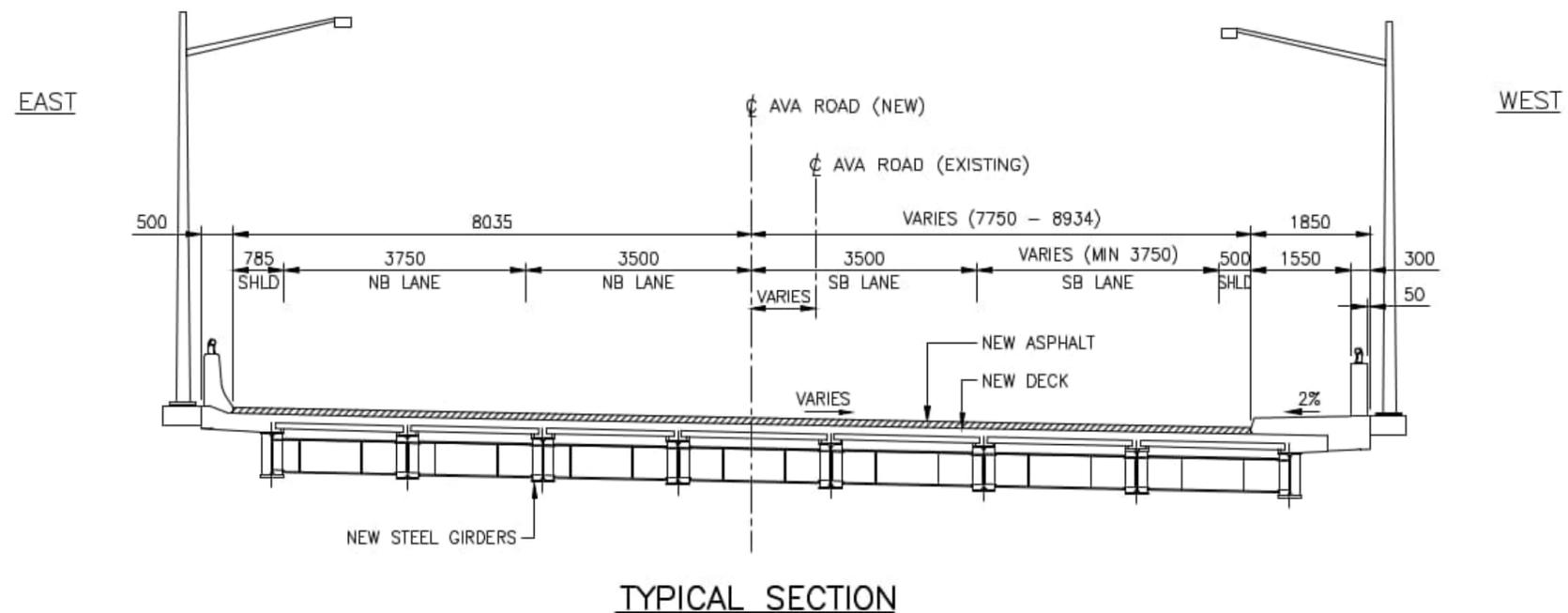
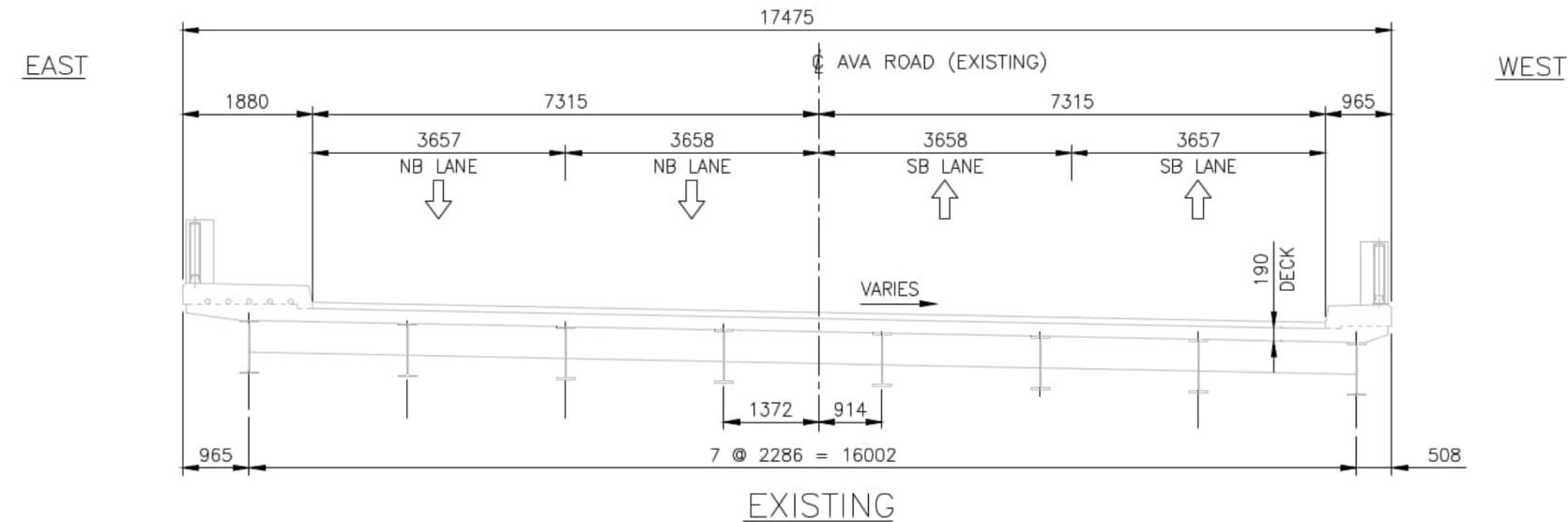
Existing and New Superstructure

Existing Bridge

- Constructed in 1959 (64 years old), and is a four-span concrete slab on steel I-girder bridge with a total length of 59.73 m. The bridge carries two (2) 3.66 m lanes of traffic in each direction.
- The Canadian National Railway (CNR) owns and operates two tracks below the north middle span.

Replacement Bridge

- New bridge will be a concrete slab on steel I-girder structure similar to the existing structure but with improved durability.
- The bridge will accommodate two lanes of traffic in each direction. The existing sidewalk will be relocated to West side of the deck.
- Partial depth precast deck will be utilized to expedite construction.



Proposed Scope of Work

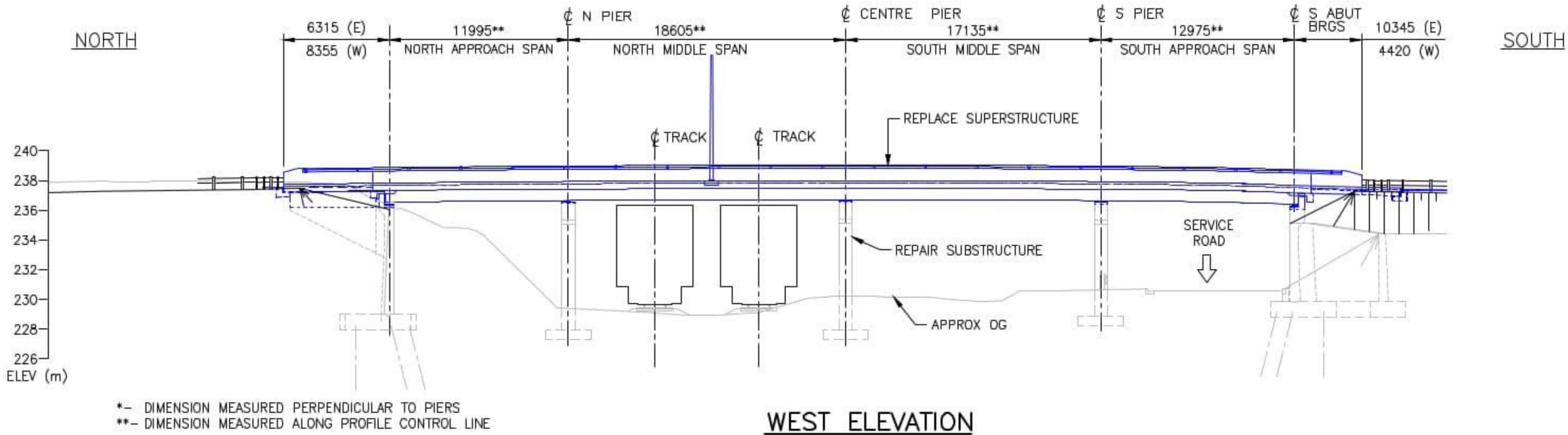
Bridge Construction

- Close road to traffic, implement detour routes;
- Remove existing superstructure (deck & girders) in sections and haul off-site for disposal;
- Complete repairs and modifications to the existing substructure;
- Place new steel girders;
- Construct concrete deck, sidewalk, and barriers, and
- Waterproof and pave deck.

Municipal & Intersection Work

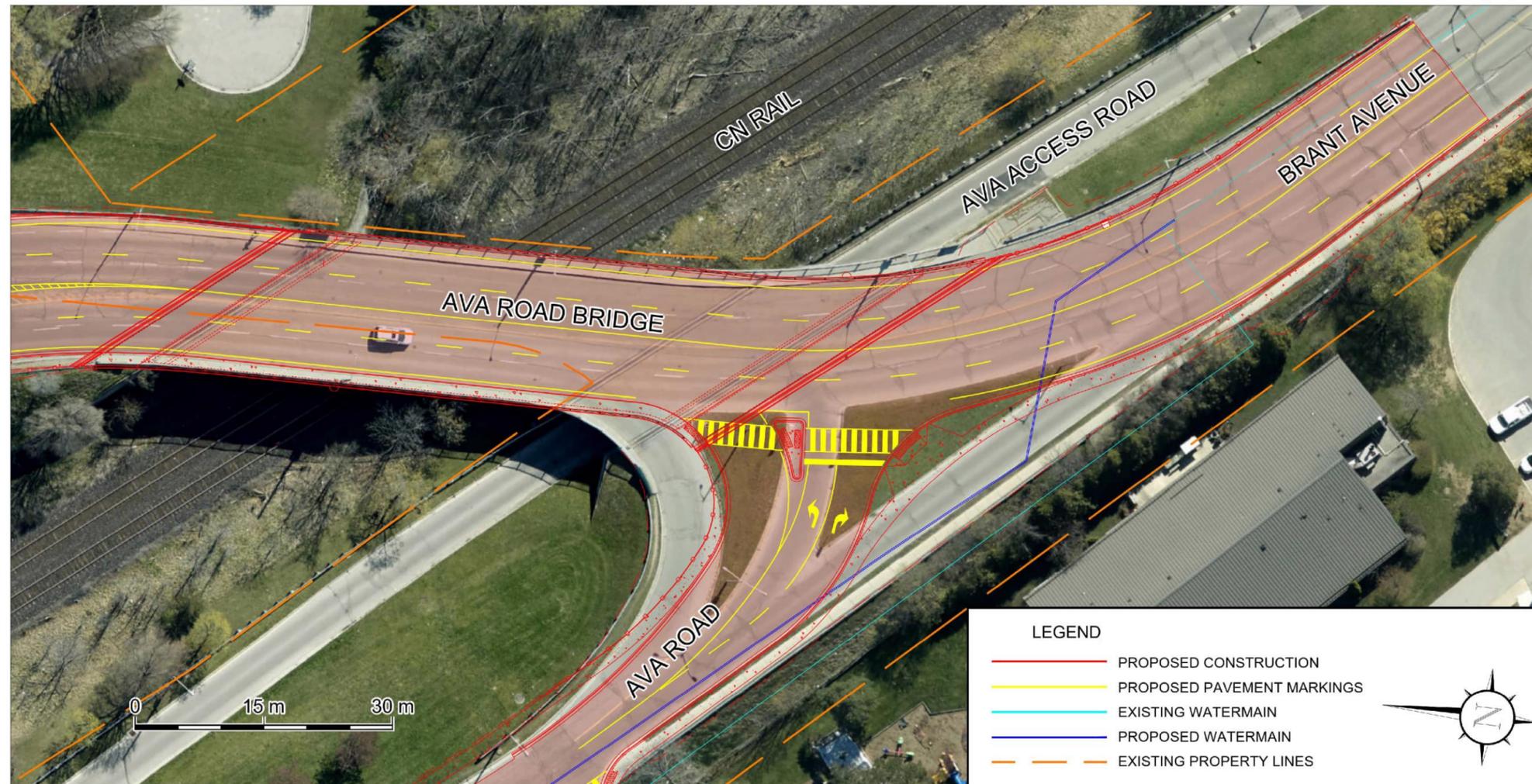
- Install new 150 mm watermain in open trench excavation;
- Make connections for new watermain, decommission existing pipe;
- Excavation and removal of existing intersection pavement, sidewalks, curbs, and islands;
- Grading and construction of new median islands, sidewalks, curbs, and other features, and
- Install permanent signalized pedestrian crossing at Paris Road and Terrace Hill Street.

Proposed Bridge Design



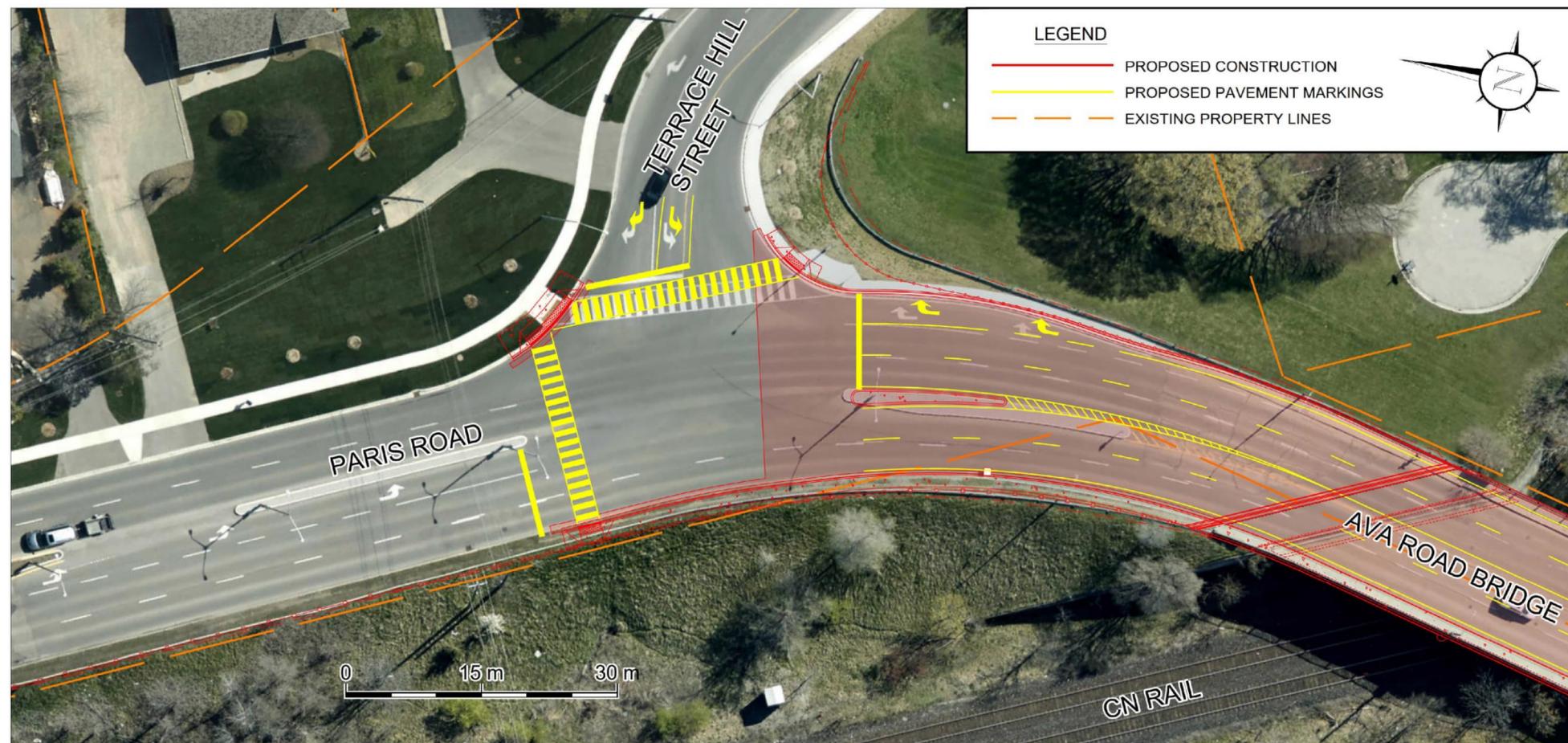
Brant Avenue and Ava Road Intersection Modifications

- Prohibited left turn from Brant Avenue NB onto Ava Road will be maintained.
- The existing right turn channelization from Ava Road to Brant Avenue SB will be removed, and intersection reconfigured to provide left and right turn lanes.
- Left and right turns from Ava Road will be stop-controlled.
- Sidewalk will be relocated to the west side of Brant Avenue / Ava Road and extend to Westmount Boulevard.



Paris Road and Terrace Hill Street Intersection Modifications

- Terrace Hill Street intersection has already been reconfigured. Currently there is a pedestrian signalized crossing on the south side of the intersection.
- The signalized pedestrian crossing will be moved to the north side of the intersection, as was originally intended.
- Traffic from Terrace Hill Street will be stop-controlled.
- Zebra cross-walks will be provided on the north and east side of the intersection.
- Provisions will be included to accommodate future signalization when traffic signals become warranted.



Proposed Ava Road Watermain Replacement

Watermain Works

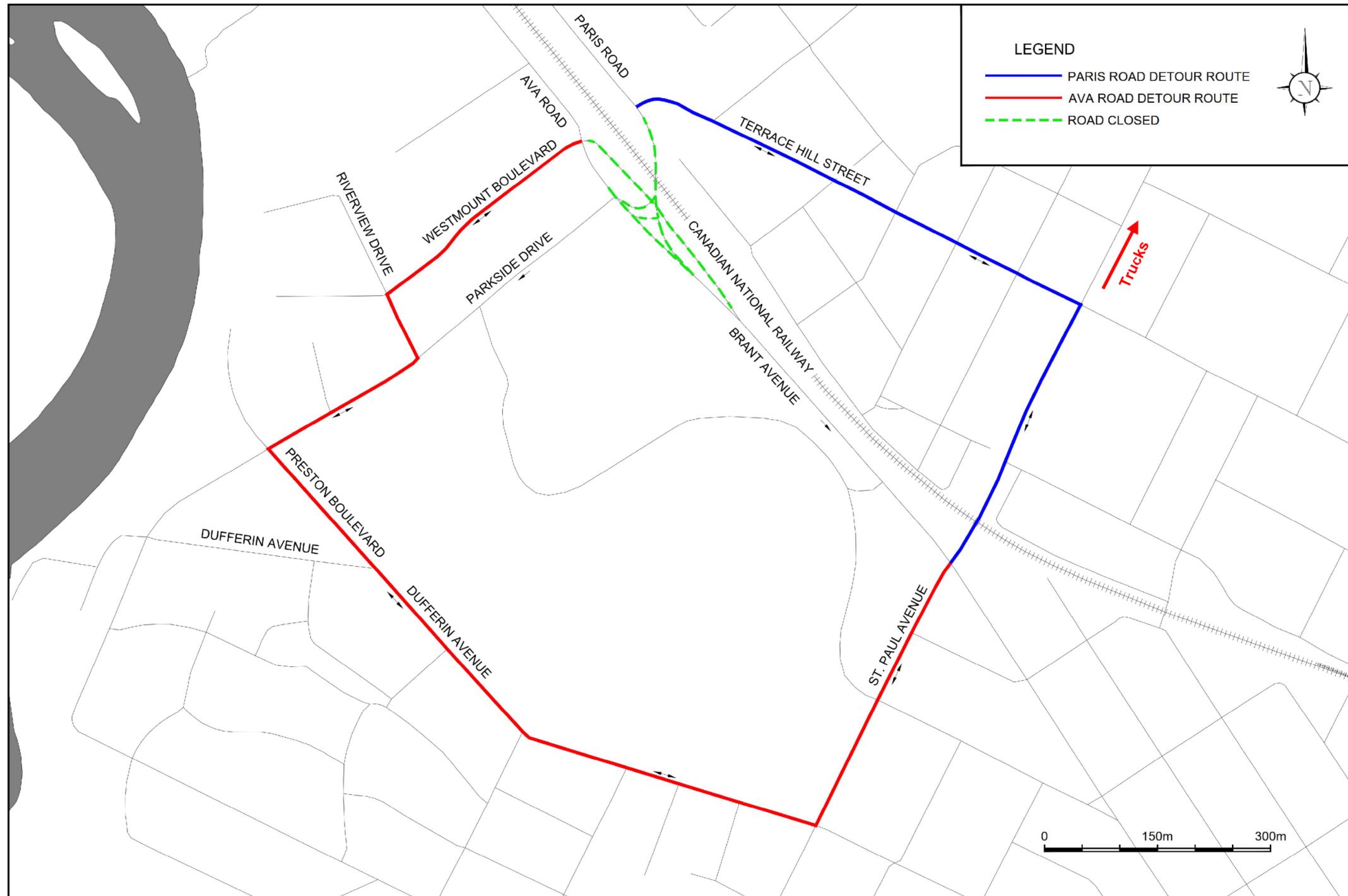
- Replacement of existing 150 mm diameter watermain with new 150 mm diameter watermain
- New watermain relocated to underneath the roadway
- Water service reconnections as required

Road Works

- Asphalt Resurfacing
- Additional sidewalk and select curb and sidewalk replacement including additional Tactile Walking Surface Indicators (TWSI) at sidewalk ramps

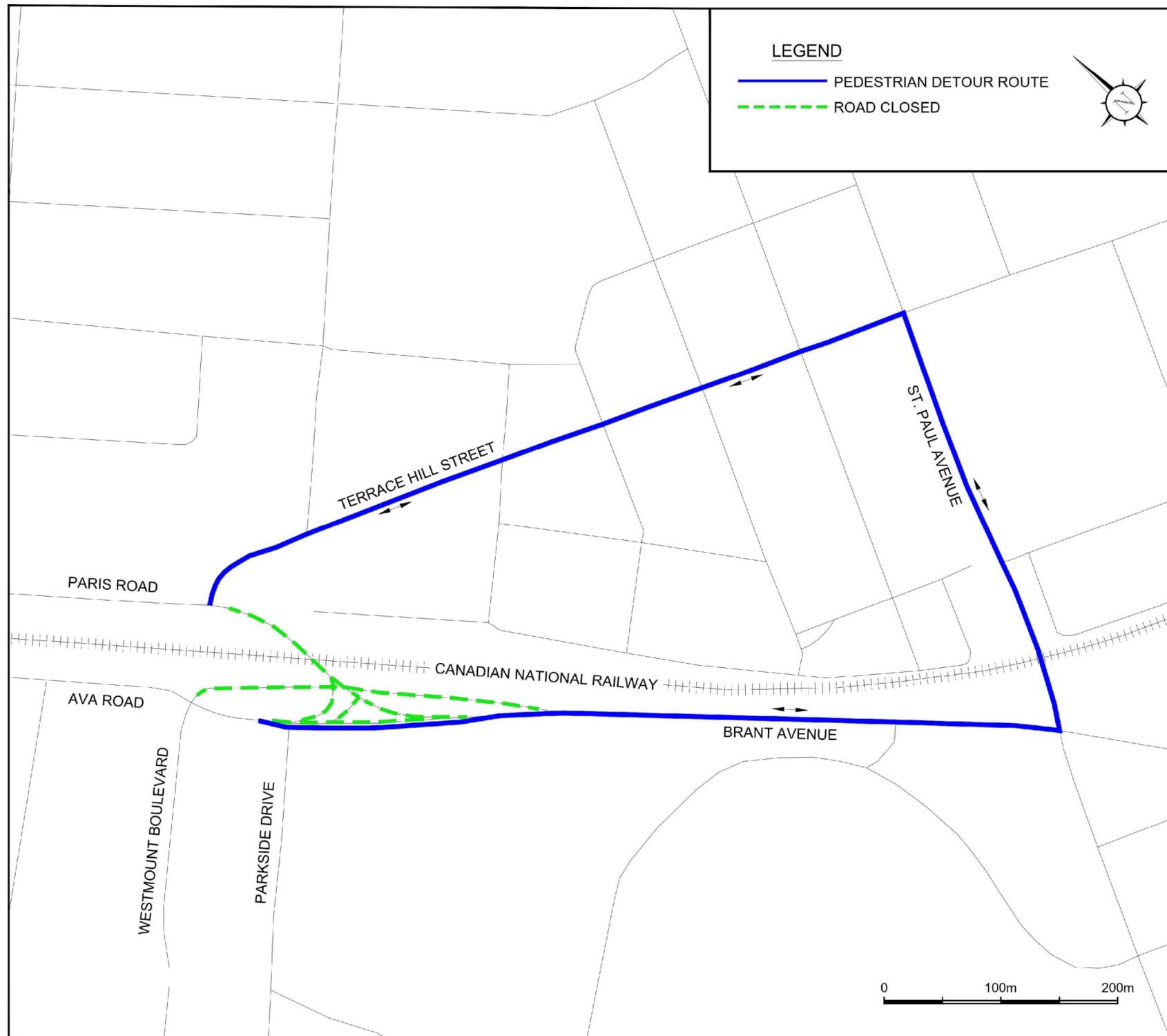


Vehicular Detour During Construction



- Work zone across the bridge will be closed to vehicular traffic for the duration of construction.
- The designated detour route will allow for access to and from the surrounding road network, as shown.
- Trucks will be required to use an alternative detour that will utilize existing truck routes via St. Paul Avenue and Tollgate Road.
- Alternative route and detour signage will be provided.

Pedestrian Detour During Construction



- Work zone across the bridge will be closed to pedestrian traffic for the duration of construction.
- Pedestrians and Active Transportation users will be required to utilize the designated detour route shown (1.4 km / 18-minute walk).
- Pedestrians will not be permitted to enter the CNR right of way or cross the tracks elsewhere within the detour route.
- Crossing railway tracks anywhere but a designated level crossing is both dangerous and unlawful.
- Pedestrian detour signage will be provided.

Next Steps

Task	Timeline
Contract Advertised	Q2 2023
Contract Awarded	Q3 2023
Construction Commence	Q3 2023
Construction Completion	Q1 2024



If you would like more information, Please contact:

Please submit any questions or comments directly online, email or by phone to the contacts listed below by April 28, 2023:

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City Project Manager
City of Brantford
Tel: (519) 759-4150 ext. 5247
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Thank you for participating in the Public Meeting. Information is being collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record. If you have accessibility requirements in order to participate in this project, please contact one of the project team members listed above.



Thank you!
Your Participation is Important to Us