

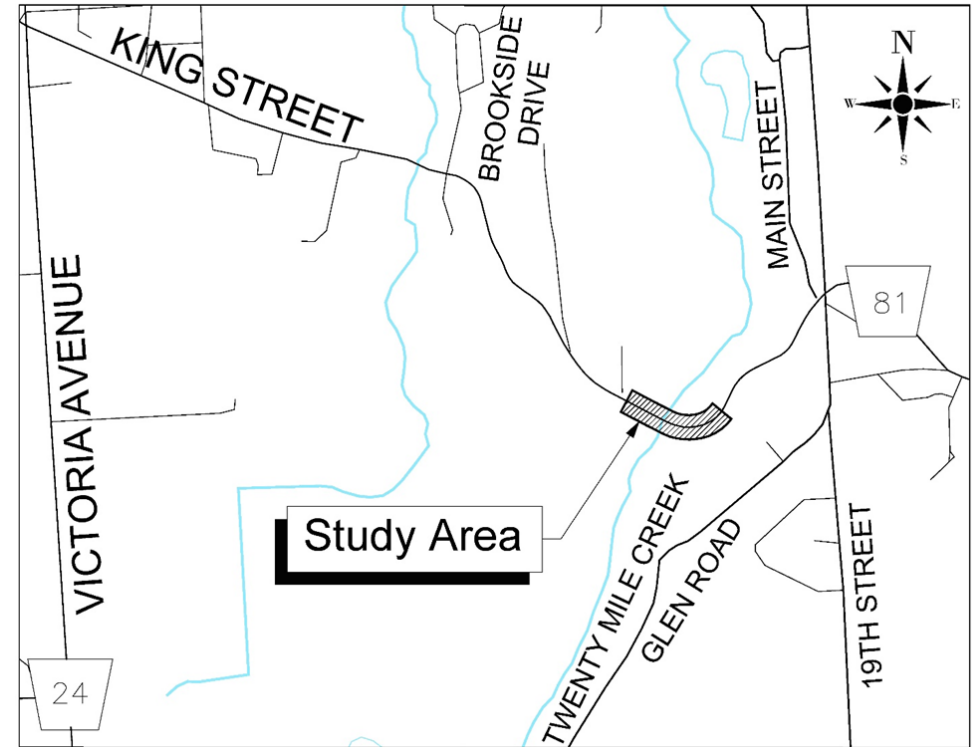
Twenty Mile Creek Arch Bridge Replacement

Town of Lincoln Committee of the Whole

April 25, 2022

Existing Conditions

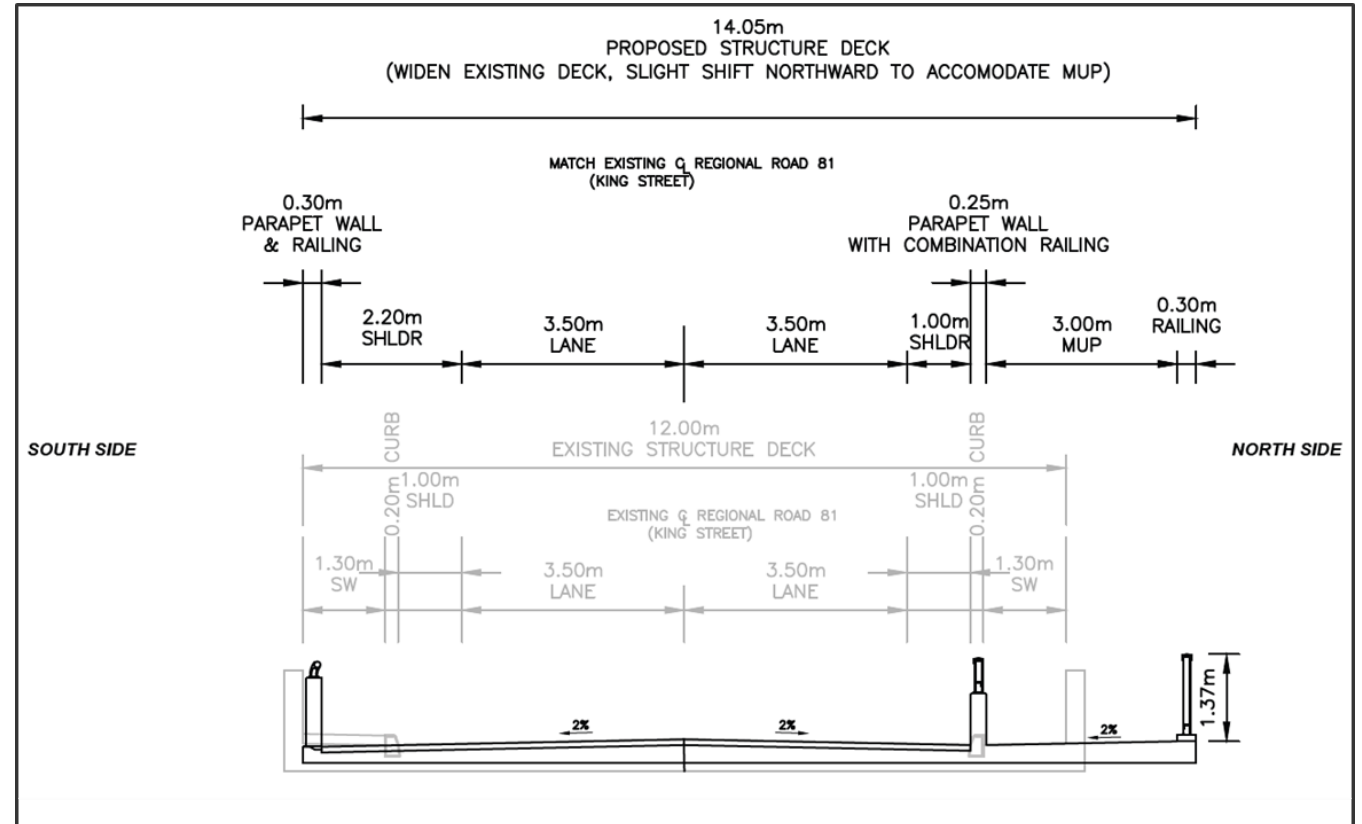
- The Twenty Mile Creek Arch Bridge is located on King Street / Highway 81 in the Jordan Hollow area of the Town of Lincoln and presently functions as a two-lane arterial road serving east/west traffic flows with an average annual daily traffic of 5800. This thoroughfare provides access to residential/ commercial/ recreational uses.
- To the east, the closest intersecting street is Nineteenth Street, and to the west, the closest intersecting street is Brookside Drive. This stretch of Regional Road 81 is identified in the Niagara Region Transportation Master Plan as an infill link as part of the Strategic Cycling Network.
- There are sidewalks located on both sides of the bridge. The 2017 biennial bridge inspection identified that the sidewalks and curbs are generally in poor condition. In addition, the existing bridge includes a pedestrian path under the east arch



Preferred Cross Section and AT Facilities

Separated Multi-use Path

Urban roadway cross section with two 3.50 m travel lanes and 2.20 m shoulder on south side and 1.0 m shoulder on north side. A 3.00 m asphalt multi-use path will be provided on the north side separated by a parapet barrier walls with railing.



Preliminary Preferred Road Alignment

- The proposed roadway and bridge will be maintained on the existing alignment, and the bridge will be widened on both sides of existing roadway.
- The pathway under the existing bridge will be maintained, and will provide safe pedestrian access between the north and south side of Regional Road 81



Maintain Existing Centreline Alignment

What Happens During Construction?

- One lane of traffic will be maintained at all times during the bridge construction. A temporary modular bridge will be utilized over the existing bridge to maintain traffic while constructing half of the new bridge structure.
- Traffic will be switched over to the partially constructed new bridge to allow removal of the existing bridge and completion of the new structure.
- Emergency services will be given priority through the construction site when on an emergency call.
- Access to businesses, residences, and Jordan Hollow Park will remain in place during construction.
- Construction duration is expected to be approximately 12 months

Jordan Hollow Park



- Jordan Hollow park will be a preferred laydown area for the bridge construction contractor.
- Not feasible for the contractor to use a site outside of Jordan Hollow due to logistics and safety
- Niagara Region, The Town of Lincoln, and the construction contractor will determine a suitable location for the laydown area within the park that allows residents to still use this facility.

Next Steps

- Q2 2022 - File the Environmental Assessment for public review and commence detailed design
- Q2/Q3 2022 – Undertake a feasibility study of active transportation facilities within the Jordan
- Q1/Q2 2023 – Commence Utility relocations
- Q3 2023 – Commence construction.

Questions?