







LAKE DALRYMPLE BRIDGE REPLACEMENT KIRKFIELD ROAD

CITY OF KAWARTHA LAKES

PUBLIC INFORMATION CENTRE



WELCOME

THIS PUBLIC OPEN HOUSE WILL:

- establish channels of communication with public & stakeholders
- Present the project objective, design plans, and construction impacts
- Provide opportunity for public feedback & questions

PUBLIC AND STAKEHOLDERS SHOULD:

- review the presentation material
- ask questions of the City and/or Consultant
- submit a comment sheet







BRIDGE LOCATION







BACKGROUND, PROJECT UNDERSTANDING & APPROACH

Background:

- Bridge was constructed circa 1969, resulting in a 53year-old bridge consisting of composite laminated timber and concrete deck on timber stringers supported on timber piles.
- The bridge was originally constructed by the Ministry of Transportation Ontario (MTO, formerly Department of Highways Ontario) circa 1970. It was rehabilitated in approximately 1990, which included concrete patch repairs and a latex-modified concrete overlay. Maintenance work including patching with asphalt on the exposed concrete deck appears to have been completed since the 1990 rehabilitation. City of Kawartha Lakes has identified the need to replace the existing bridge and foundations, as inspection shows it to be at the end of its service life.
- Often utilized as an alternate route to Highway 12 and Highway 169
- Local access road to the Lake Dalrymple Public Boat launch is 200m northwest

Project understanding and approach:

- Bridge is located at the point where the lake narrows, providing an efficient crossing location. Road embankments are steep on approach and slightly less in front of abutments.
- Any widening of the road or bridge to improve shoulder width to current standards will increase the overall footprint and fill below the high-water mark.
- Approach will be to limit improvements to the cross section to reduce impact to the overall footprint to mitigate impact to environment and fisheries. This will require embankment stabilization and protection.
- Bridge is located outside the limits of the Kawartha Conservation Authority and the Lake Simcoe Region Conservation Authority, and as such no additional studies are anticipated to be required.
- Existing bridge structure type and geometry is not conducive to standard construction staging where half the bridge can be closed for work and the other half to be remain open to traffic, thus resulting in a detour until replacement is completed





EXISTING CONDITIONS





















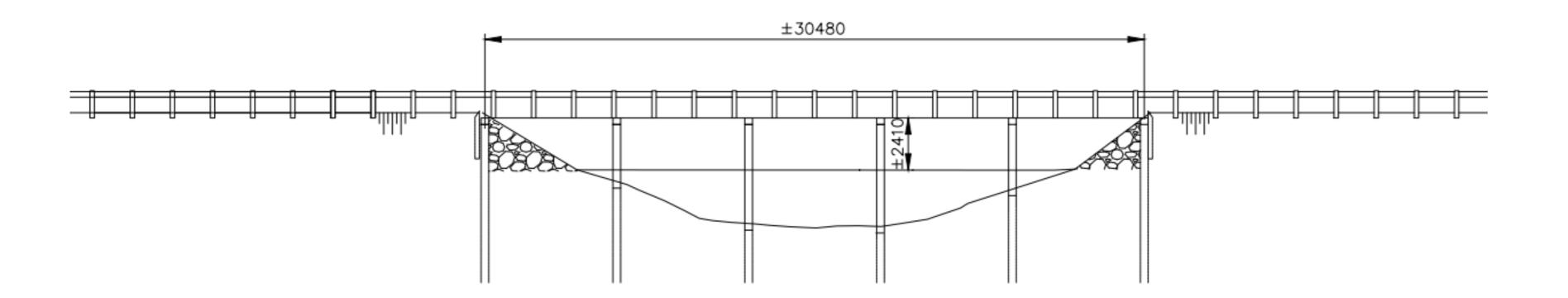
ROAD CONFIGURATION

Element	Existing Conditions	CKL Arterial Road Standards	Proposed Conditions
right-of-way	42.6 m	26 – 36 m	42.6 m
lanes per direction	1	1	1
lane width	3.5 m	3.5 m	3.5 m
total road width	8.54 m	N/A	10.0 m
Sidewalk	None	None	None
Side Clearance / Shoulder	0.77 m	1.5 m	1.5 m

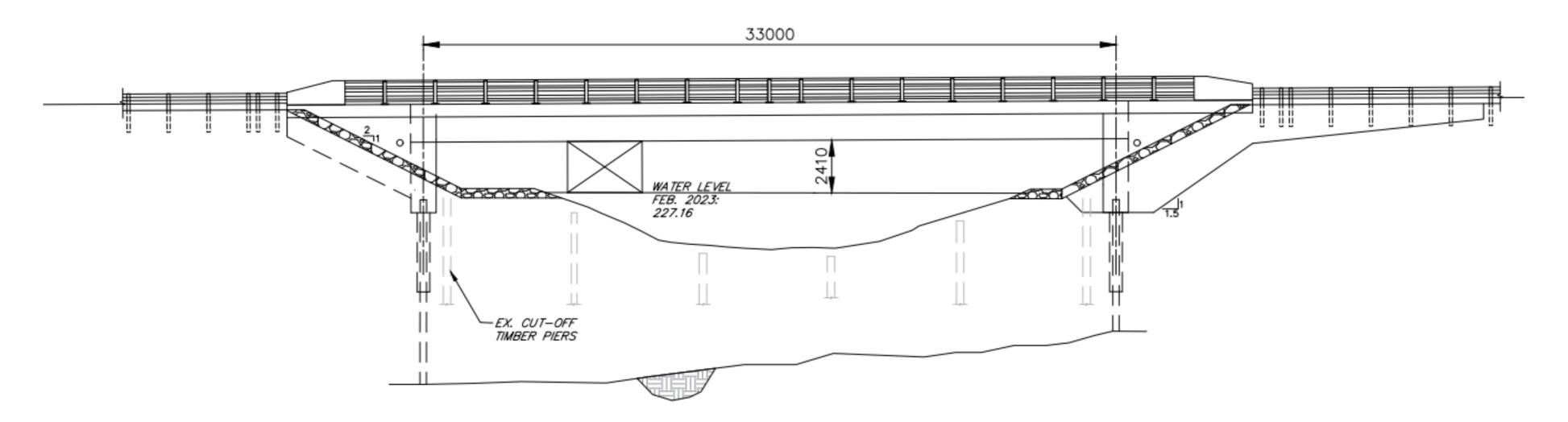




ELEVATION IMPROVEMENTS



EXISTING BRIDGE ELEVATION



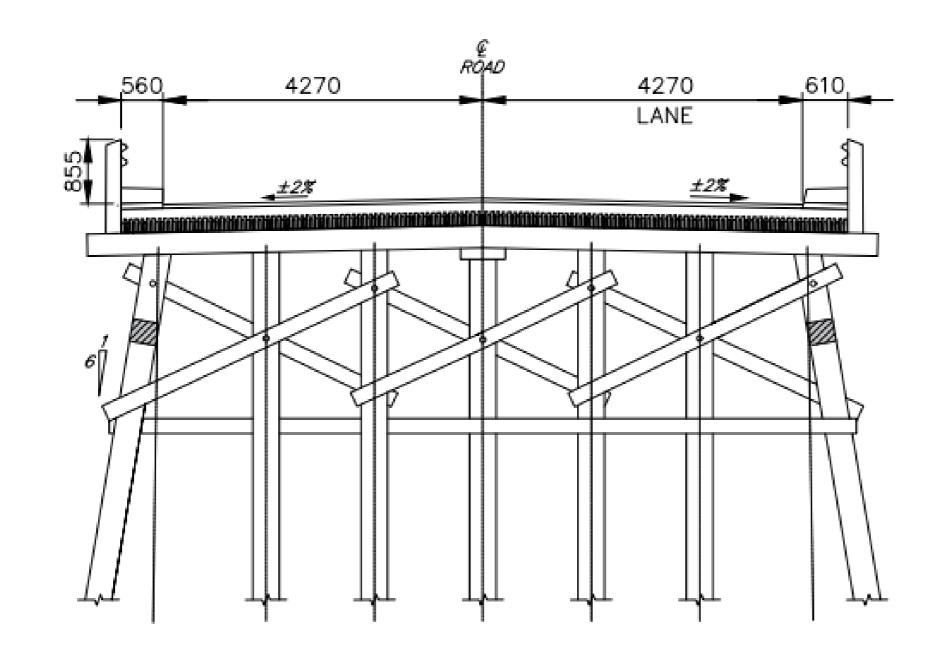
PROPOSED BRIDGE ELEVATION

- Increased span will allow improvements to lessen the steep embankments
- The height from the underside of the new bridge to the water level will be maintained so as not to affect boater access
- The new bridge will eliminate the intermediate piers improving the hydraulic capacity of the bridge and removing obstructions to boaters
- New embankments will be protected by rock to prevent scour and erosion

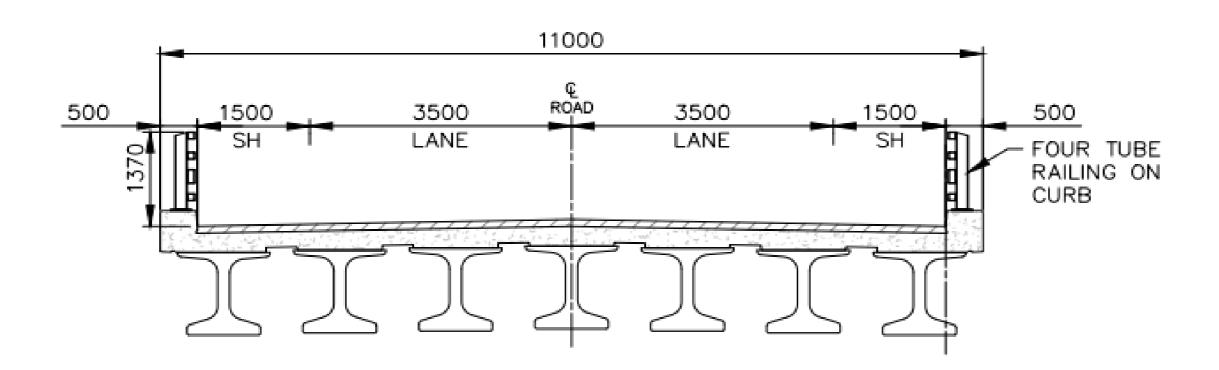




CROSS-SECTION IMPROVEMENTS



EXISTING BRIDGE CROSS SECTION



PROPOSED BRIDGE ELEVATION

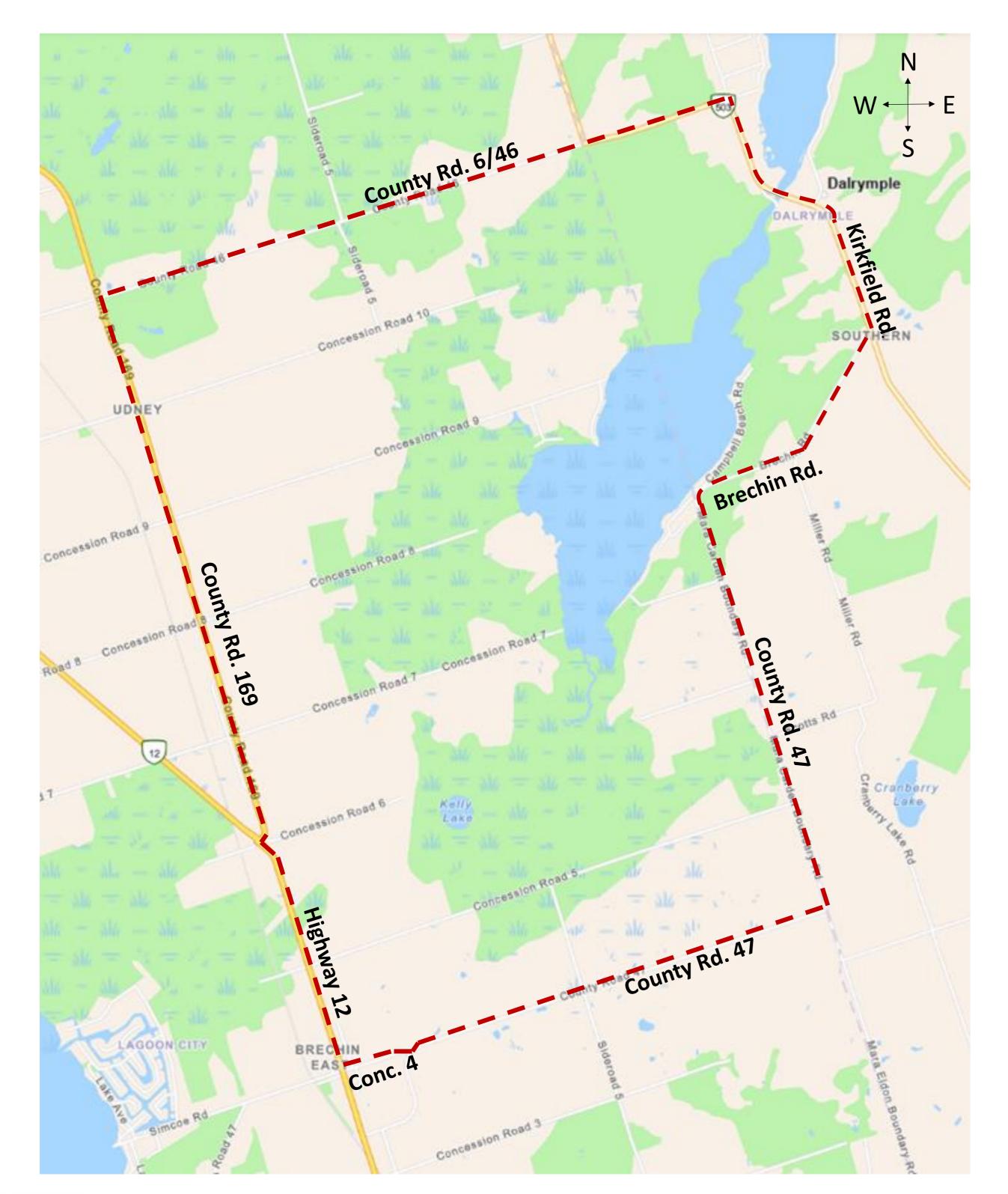
- Lane widths will remain at 3.5 m
- Increased side clearances
 (shoulders) will be increased to
 1.5m to improve safety
- Barriers will be upgraded to meet current standards
- Barrier heights will be increased to provide additional safety to cyclists





DETOURS

South Detour North Detour











PROPOSED IMPROVEMENTS

Lake Dalrymple currently has:

- A 53 year old deteriorating bridge
- A rural cross section, no sidewalks
- 5 spans with 4 in-water piers
- Side mounted steel beam guide rail (TL-1)



Proposed improvements include:

- Replacement of the existing bridge
- Widening of the bridge to include 3.5m lanes with 1.5m shoulders, maintaining a rural cross section and no sidewalks
- 1 span with no in-water piers
- 4-tube guard rail for pedestrian and bicycle safety (TL-4)







OPPORTUNITIES FOR PUBLIC FEEDBACK & FREQUENTLY ASKED QUESTIONS

OPPORTUNITY FOR FEEDBACK

The Town's project website includes a copy of these presentation slides, copies of the design drawings, and a comment sheet for residents to complete and email to the project contacts.

FREQUENTLY ASKED QUESTIONS (FAQ's)

Will I still have access to the boat launch?

Yes

Will my garbage and recycling still be picked up?

Yes, please label your bins with your address and follow your normal waste schedule. If required, the Contractor will move and return binds to an appropriate location.

When is the detour planned to be implemented?

The final schedule will be confirmed once a Contractor has been awarded the work, however it is anticipated to commence in the Spring of 2025

How long will it be until the new bridge opens?

The final schedule will be confirmed once a Contractor has been awarded the work, however it is anticipated to reopen in the Fall of 2025

The detours are really long - Why isn't Kawartha Lakes only closing one side at a time so the bridge can remain open?

This option was reviewed during the planning and design stage, however due to the configuration of the existing bridge, the construction duration would double, and residents would be impacted over two seasons with delays. In addition, due to the existing structure type significant temporary works would be required, greatly increasing the cost of the project, which could be used for other infrastructure improvements.





NEXT STEPS

Lake Dalrymple Bridge Replacement:

- review/address stakeholder comments
- Tender the work and hire a contractor
- construction

Before you leave:



- have your questions been addressed?
- have you signed the registry to be informed of the next phase of the study?
- have you completed a comment sheet?

SUBMIT YOUR COMMENTS BY OCTOBER 31, 2024

SUBMIT COMMENTS VIA E-MAIL OR MAIL TO THE CONSULTANT CONTACT BELOW

CONTACTS

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