Welcome!

KLO Bridge replacement and roundabout: info session

PURPOSE

To provide an overview of the design of the KLO Bridge, roundabout and surrounding improvements

To communicate future construction activities and detour information





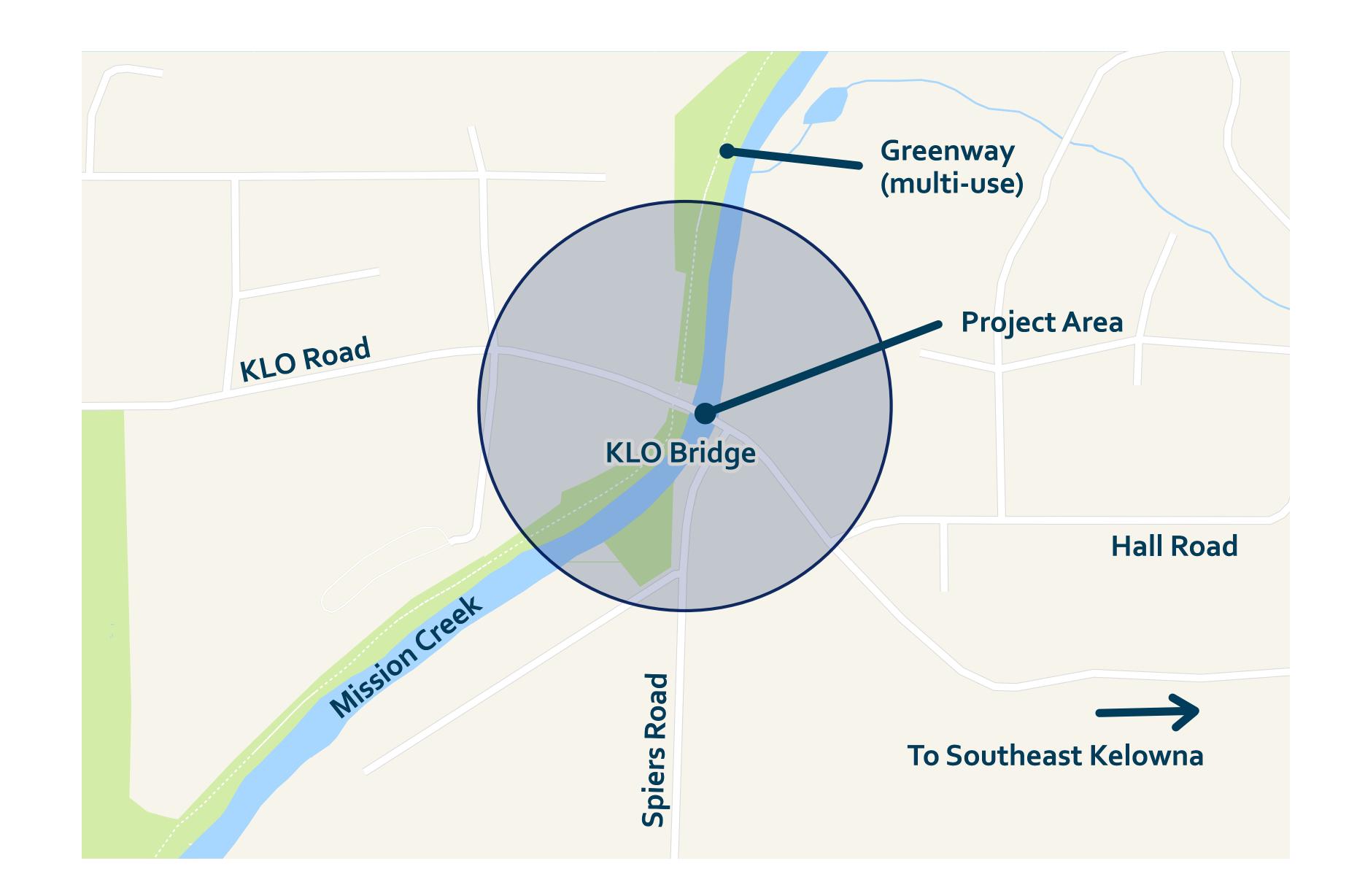
KLO Bridge: A gateway to southeast Kelowna

Southeast Kelowna is a rural neighbourhood that is predominantly orchards and farms, suburban neighbourhoods and a gateway to forestry operations and major tourist destinations.

Primary access to the area is via KLO Road, a two-lane arterial road that crosses Mission Creek via the KLO Bridge.

KLO Bridge sees around 15,000 vehicles cross the bridge in a typical weekday and roughly 1,200 vehicles per hour during the afternoon peak hour (~4 p.m. to 5 p.m.) (City of Kelowna traffic data, 2021 and 2023).

The existing bridge was built in 1949 and is at the end of it's useful service life at 75-years old.





Replacing the KLO Bridge and improving the surrounding area

Built in 1949, the KLO Bridge is nearing the end of its service life. While the structure is still safe for travellers, replacement is needed due to:

Aging infrastructure: The bridge has reached the end of its service life (75 years).

Low bridge height: The existing height of the bridge does not accommodate for high flood waters.

In-stream concrete piers: Existing in-stream bridge piers obstruct flow of Mission creek and can cause collection of large debris.

Limited pedestrian or cycling facilities: Limited pedestrian and cycling facilities on the bridge (currently accommodates pedestrian crossing at the south side, only).

Safety concerns at Mission Greenway trail crossing: The at-grade trail crossing on the west end of the bridge is a safety and operational challenge due to volume of traffic and travel speeds.

Challenging intersection for motorists to make turn maneuver at Spiers Road and KLO Road: Unsatisfactory in terms of sightlines, traffic control and traffic operation.



Low bridge height and concrete pile, in-stream



Concrete pile creates barrier for in-stream debris

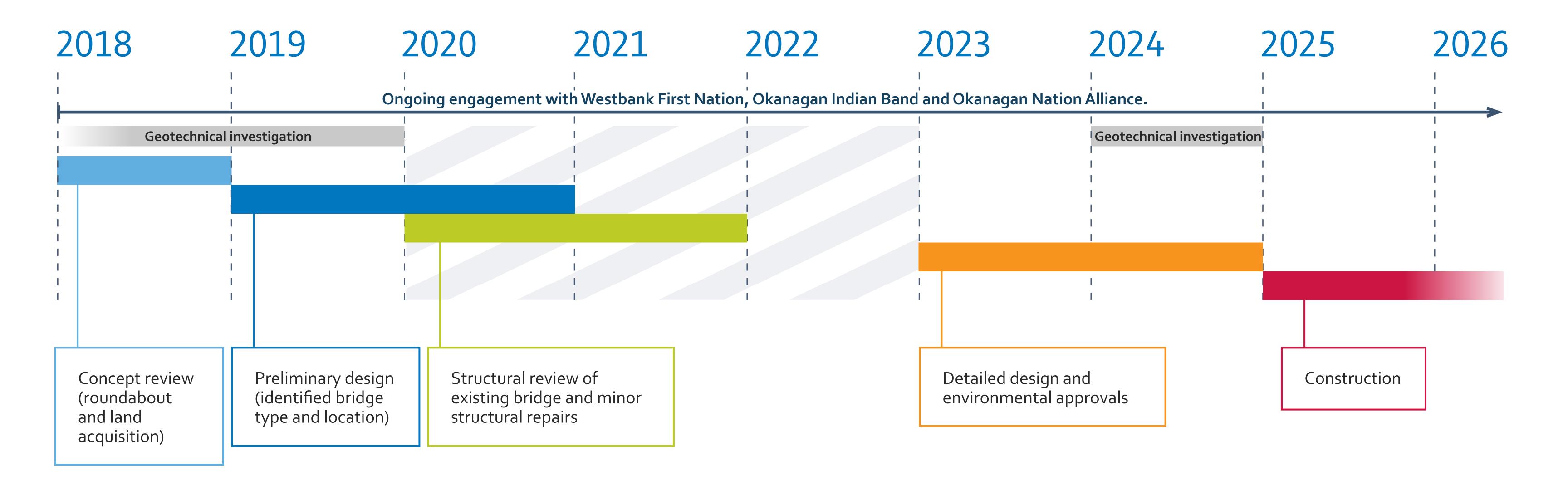


At-grade Greenway trail crossing with pedestrian flashers



Project timeline

The City of Kelowna has been working on the KLO Bridge replacement and roundabout for several years.





Project paused due to COVID-19



Existing conditions

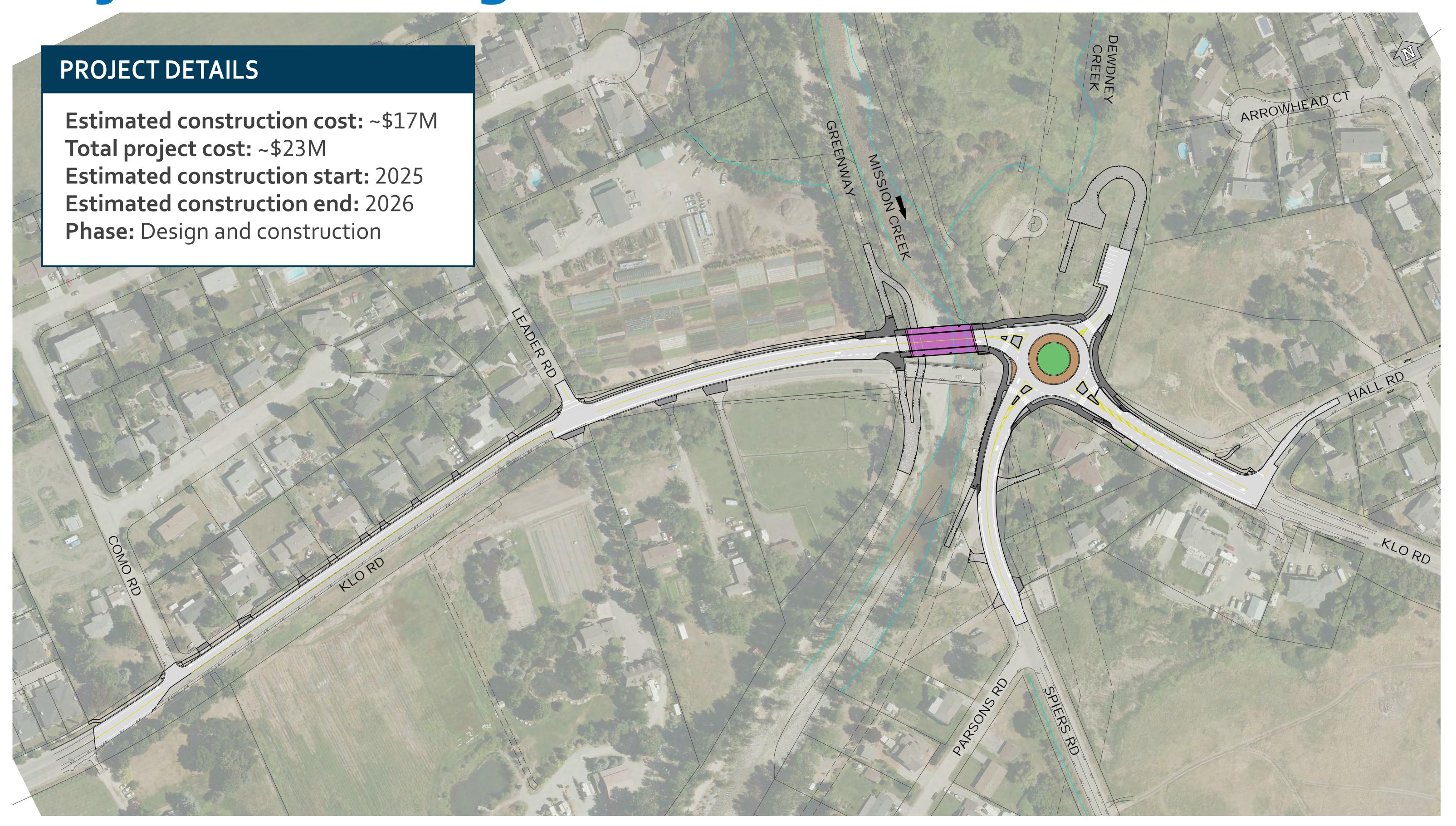
The following figure shows the existing conditions of the project area.





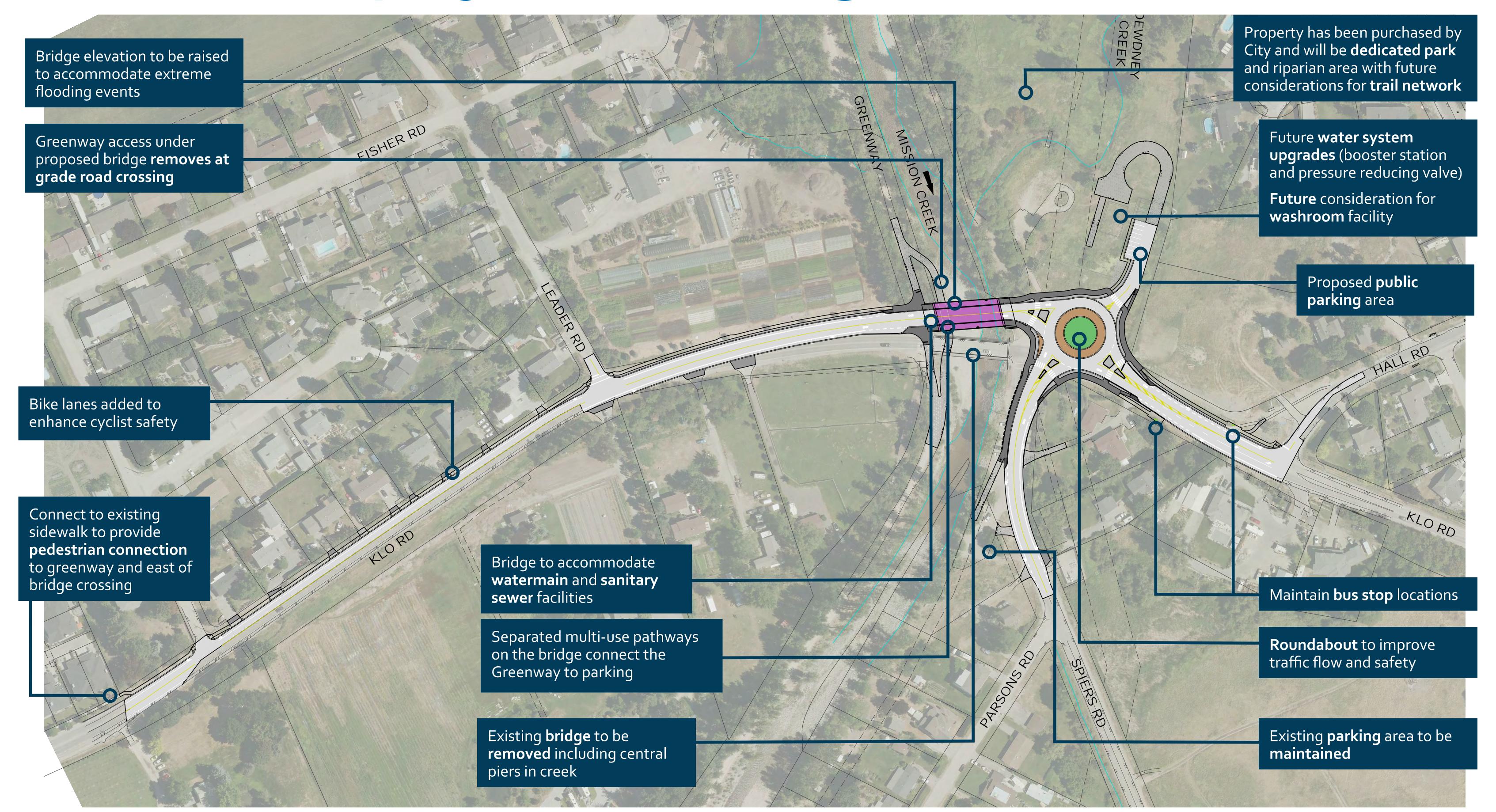
Project area design (aerial)

The following image shows the new design of the KLO Bridge project area.





Features of project area design





Design rendering (looking north)





Design renderings











KLO Bridge: past, present and future



The original A-Truss bridge over Mission Creek.

In 1948, the old wooden KLO Bridge was destroyed by surging waters from Mission Creek.





The present day bridge was built in response to the washed out bridge in 1949.





The new KLO Bridge has been designed with added climate resiliency to accommodate for a 1 in 200-year extreme flooding event.

FEATURES

- Span length: 35m
- Height: 361.0m (increase of ~2.7m)
- Concrete box girder bridge with concrete deck
- Underpass for greenway trail
- Clearspan bridge to improve creek function and aquatic habitat



Construction phasing and timeline

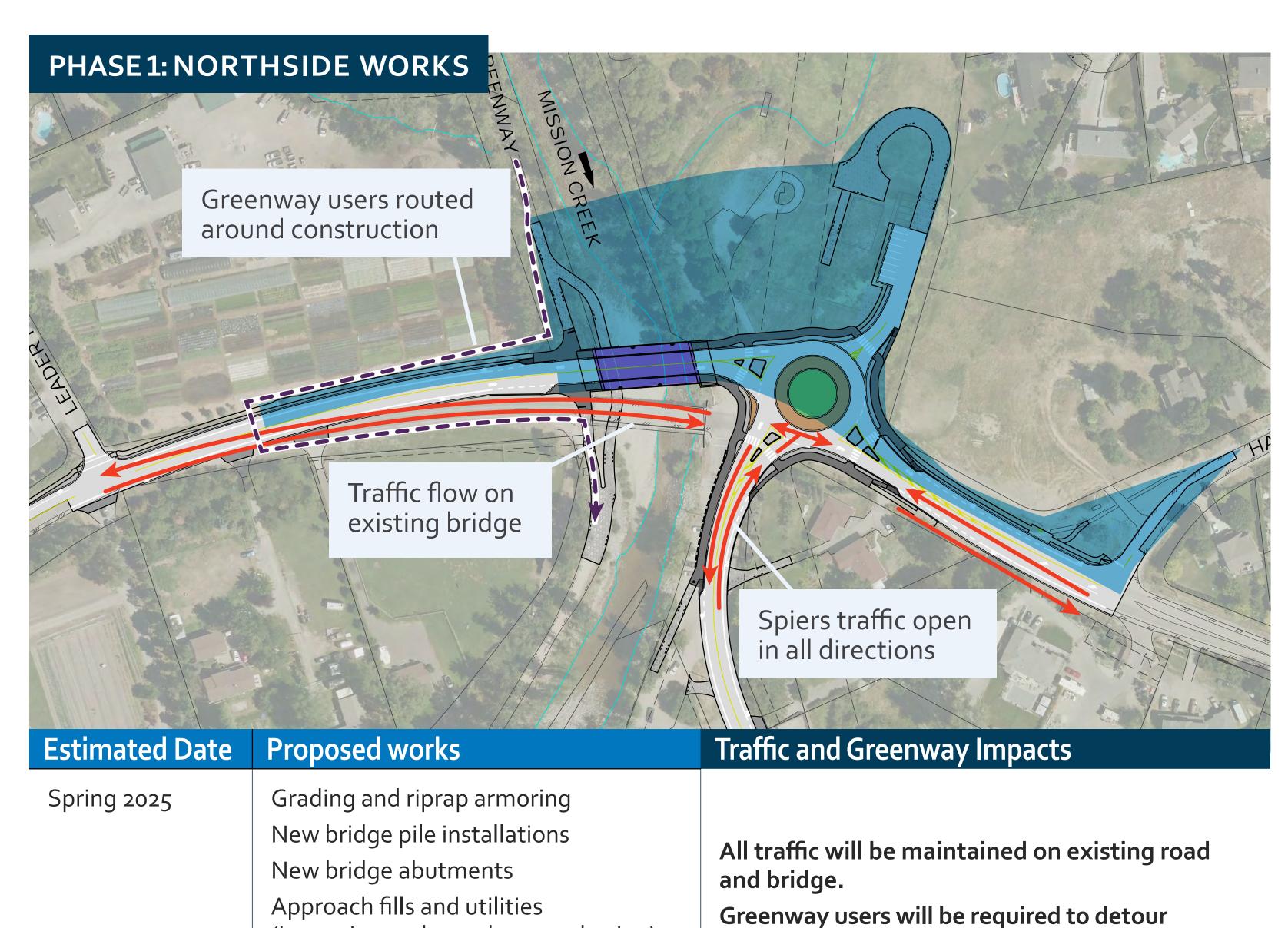
EARLY WORKS: PREPARATION FOR CONSTRUCTION

Date	Proposed works	Traffic and Greenway Impacts
Fall 2024	FortisBC gas transmission main replacement FortisBC Electric, Telus and Rogers to relocate portions of their aerial and underground infrastructure	Potential for single lane alternating traffic. Traffic control will be present to direct flow.

(intermittent dependent on phasing)

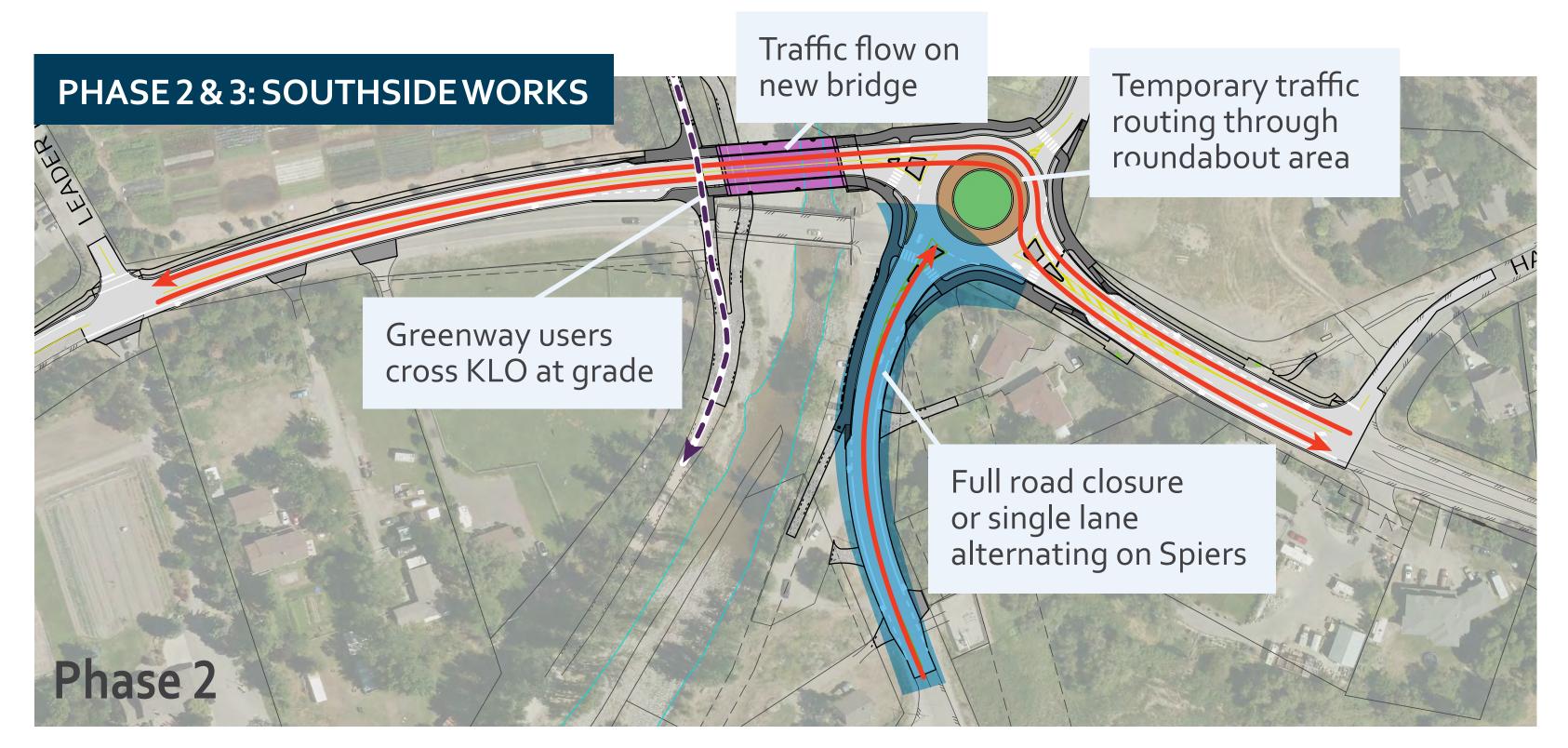
New bridge installation

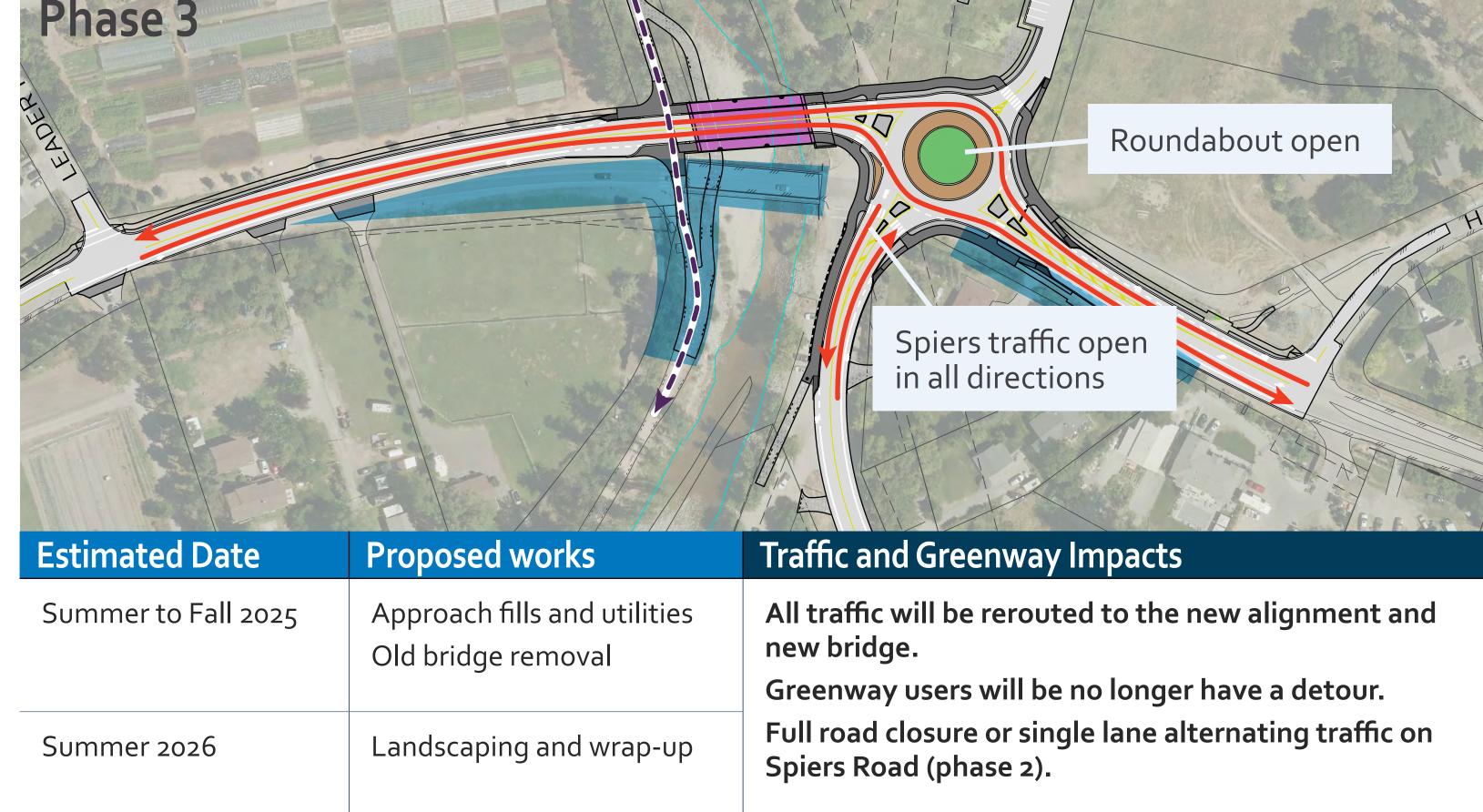
Summer 2025



around construction site.

In early 2025, construction will begin to replace KLO Bridge and install a roundabout and other improvements to the area. There will be minimal traffic disruptions and a minor detour for Greenway users. Reader boards will be on-site to communicate traffic pattern changes.







Thankyou!

To receive project updates, visit **kelowna.ca/subscribe** and sign up for news releases. Project updates will also be available on **kelowna.ca/klobridge**.

Questions?

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