

Welcome

Mill Creek Ravine Pedestrian Bridges Rehabilitation

Pre-Construction Public Meeting #2

**Tuesday, July 11, 2017
5 – 8 p.m.**

Tonight you can:

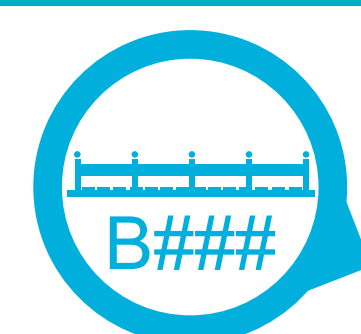
- Learn about the upcoming construction for rehabilitation of 5 pedestrian bridges
- Ask the project team questions
- Leave us your feedback

Project Site Plan



Trestle Bridge
Location/Number

Upper Asphalt Trail



Glulam Bridge
Location/Number

Lower Gravel Trail

Overview

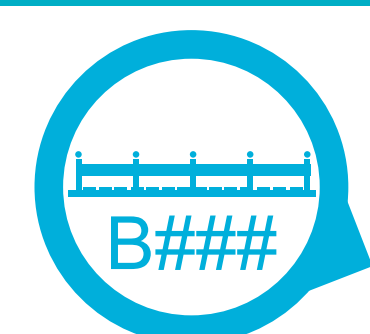
Five pedestrian bridges in Mill Creek Ravine are in need of rehabilitation to prolong their life span

- One trestle bridge (B029 — south) on the upper asphalt trail is being **replaced**
- Two trestle bridges (B032 — central, B033 — north) on the upper asphalt trail are being **repaired**
- Two glulam bridges (B198, B200) on the lower gravel trail are being **replaced**



Trestle Bridge
Location/Number

Upper Asphalt Trail



Glulam Bridge
Location/Number

Lower Gravel Trail

Project Schedule

- Fall 2016 - Public Meeting #1
- Early 2017 - Bridge Design Complete
- Summer 2017 - Public Meeting #2
- October 2017 - Construction Start
- Summer 2018 - Construction Complete

Impacts to Trails

- Each bridge will be fully closed during its rehabilitation
- Trails crossing over or under the bridges will be closed for the duration of construction
- Trails further east in Mill Creek Ravine Park will remain open
- Winter construction planned to minimize impact to trails
- Trail closure signage and detour maps will be posted onsite

We are here

Preliminary Design (2016)

Detail Design (2016-2017)

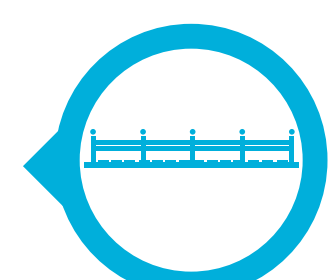
Tender (2017)

Construction (2017-2018)

Pedestrian Detours



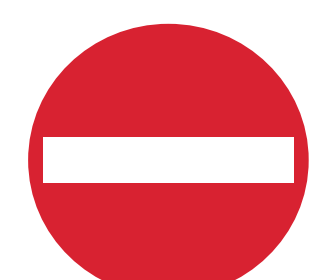
Trestle Bridge



Glulam Bridge



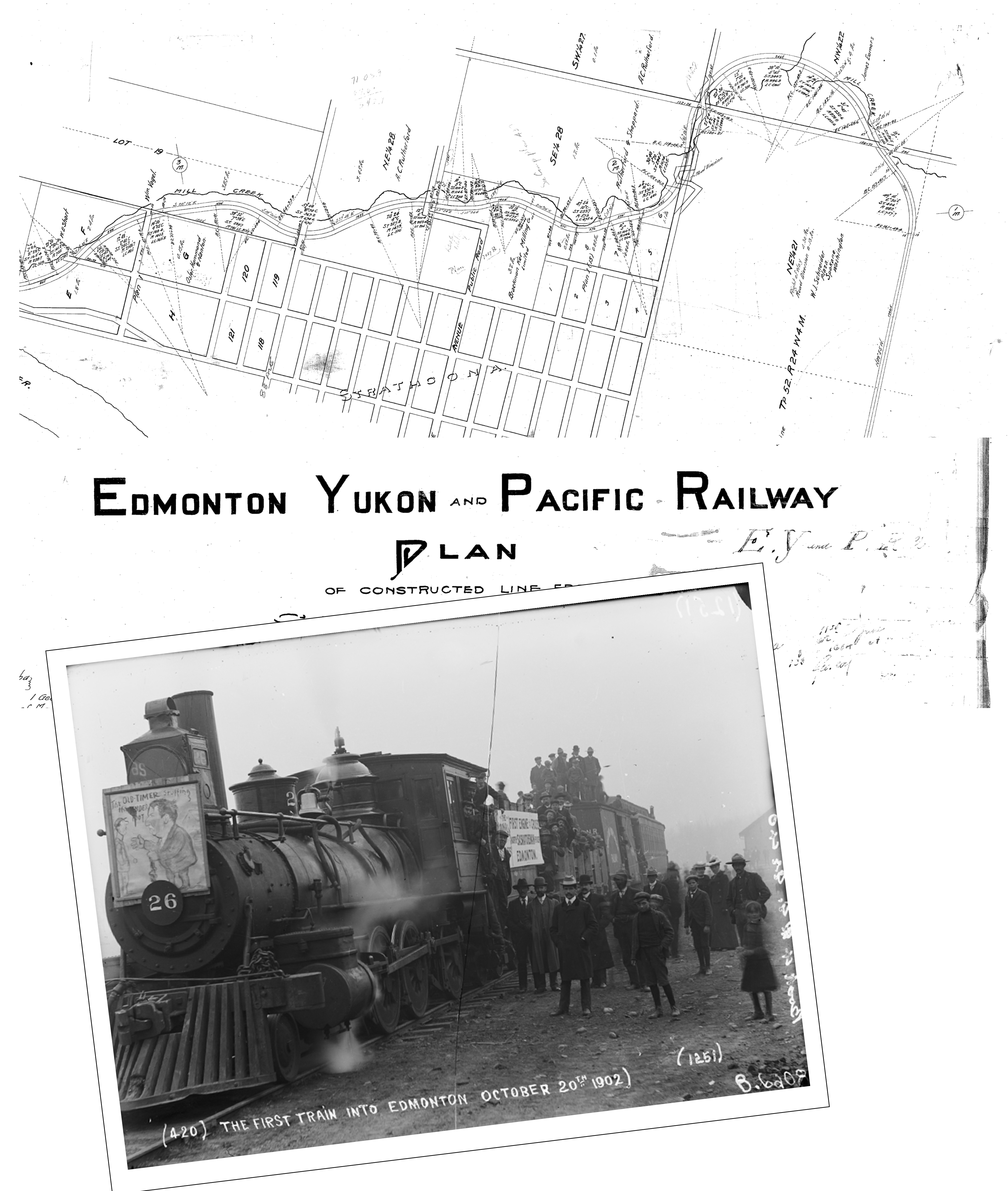
Stairs



Trail Closure

Trestle Bridge History

- Constructed in 1902 as part of the Edmonton Yukon and Pacific Railway which connected to the Canadian Northern Railway
- First railway connection between Strathcona and Edmonton
- The railway was only 12km long, giving it the title, “The shortest railway with the longest name”
- The railway was decommissioned in 1958
- The bridges were then converted for pedestrian use in the 1970s

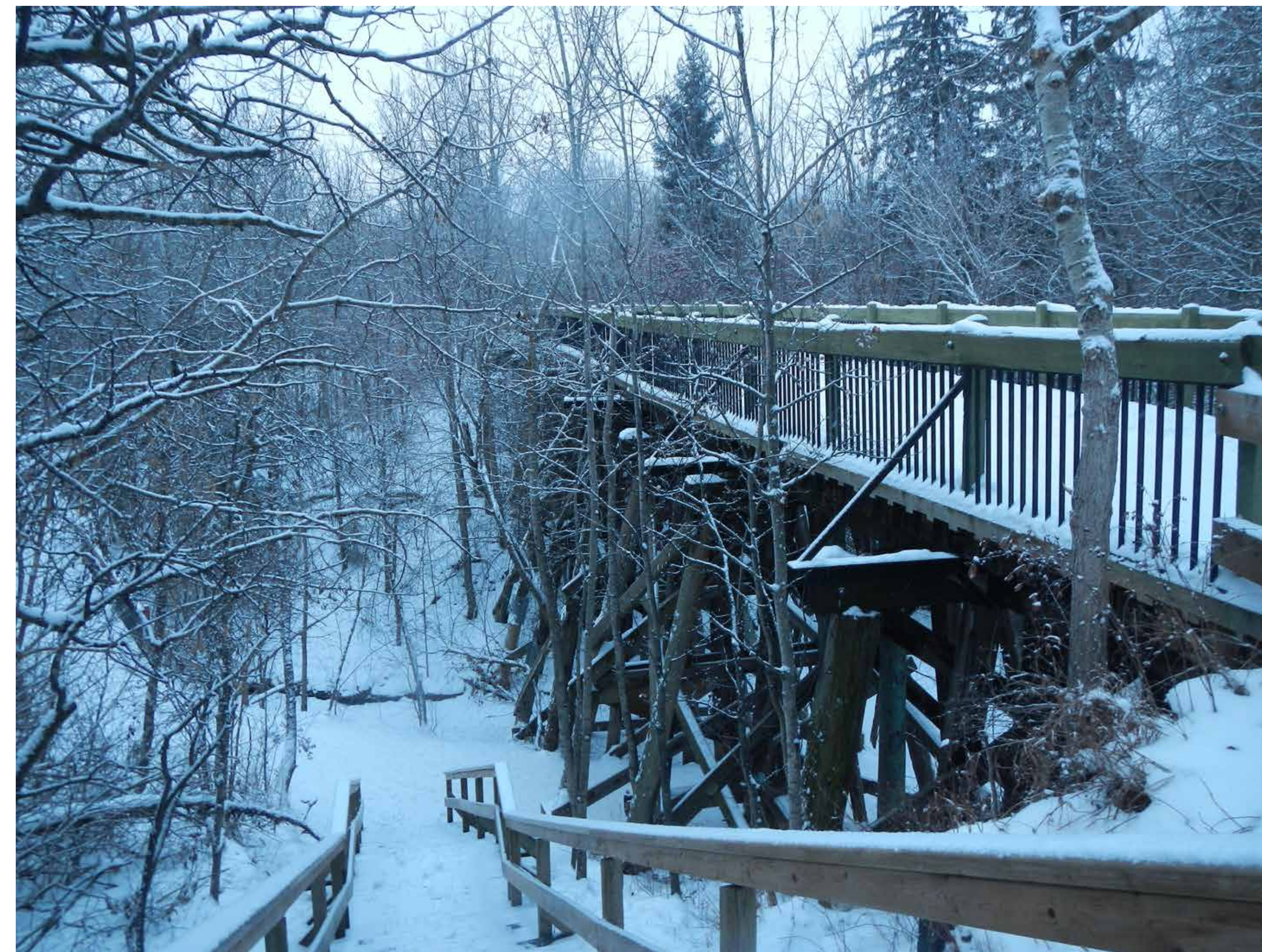


Historical Resource Review

- A historical review of the three trestle bridges has been conducted and accepted by Alberta Culture and Tourism



Bridge B029 — south



Bridge B032 — central



Bridge B033 — north

What We Heard from You

In 2016, we conducted public and stakeholder surveys and collected feedback during a public meeting.

What We Heard	City Response
Be fiscally responsible	Design developed for durability and to reduce maintenance
Trestle bridges have historic value	Historic look of trestle bridges retained
Classic handrail preferred over modern handrail	Classic handrail will be constructed on all bridges
Communicate about construction impacts and detours	Closures and detours will be communicated widely and in advance
Make detours convenient	Detours were created with users in mind
Don't close all bridges at the same time	To minimize construction timeline, all bridges will be closed at the same time
Keep trails open during construction, if possible	<p>For safety, trails that cross bridges will be closed during construction (unless otherwise communicated)</p> <p>Winter construction is planned to minimize some trail impacts</p>

Environmental Assessment

What is an environmental assessment?

Describes existing conditions of the project area and potential environmental impacts as a result of the project, and determines ways to minimize negative impacts.

Why is an environmental assessment required for this project?

The City's North Saskatchewan River Valley Area Redevelopment Plan (Bylaw 7188) exists to ensure preservation of the natural character and environment of the plan area, which includes all of Mill Creek Ravine.



What is the status of the environmental assessment?

The environmental assessment was presented to City Council and approved on April 11, 2017.

Project Approvals

The project requires the following approvals:

- The environmental assessment by City Council
- Alberta Water Act (Code of Practice notification)
- Alberta Public Lands Act (Temporary Field Authorization and/or Department Licence of Occupation)

What has been completed to date?

The following work has been completed in support of the required project approvals:

- Geotechnical assessment
- Hydrological study
- Plant community and rare plant surveys
- Wildlife and wildlife habitat
- Breeding bird survey
- Soil contaminant testing
- Historical Resources Act clearance for archaeology and paleontology
- Tree Removal Assessment



*Yellow Warbler**

*Yellow Warbler photo courtesy of David Lily
(http://www.canadiannaturephotographer.com/david_lilly4.html)

Tree Removal

- Trees 5 metres on either side of all the bridges will be removed and a few select trees will also be removed for construction access
- Air flow around the bridges is critical to maintain health of the structure by allowing wood to dry and prevent rotting
- Some trees have become entangled with the bridges and must be removed for structural safety



Rotting Wood - B033



Entangled Trees - B033

The City has Tree Protection Guidelines

- A tree removal assessment has been performed by the City
- Tree compensation will be provided for tree removals for this project as per the City's corporate tree policy
- Tree removal will occur prior to construction in late August

Trestle Bridge B029

Bridge B029 will be replaced with a similar looking structure. This will include:

- Widening the bridge deck from 3.2 m to 4.2 m to meet current design standards (Transportation Association of Canada)
- Improving structural durability
- Enhancing bridge approaches
- Constructing new concrete abutments and foundations



Trestle Bridges B032 & B033

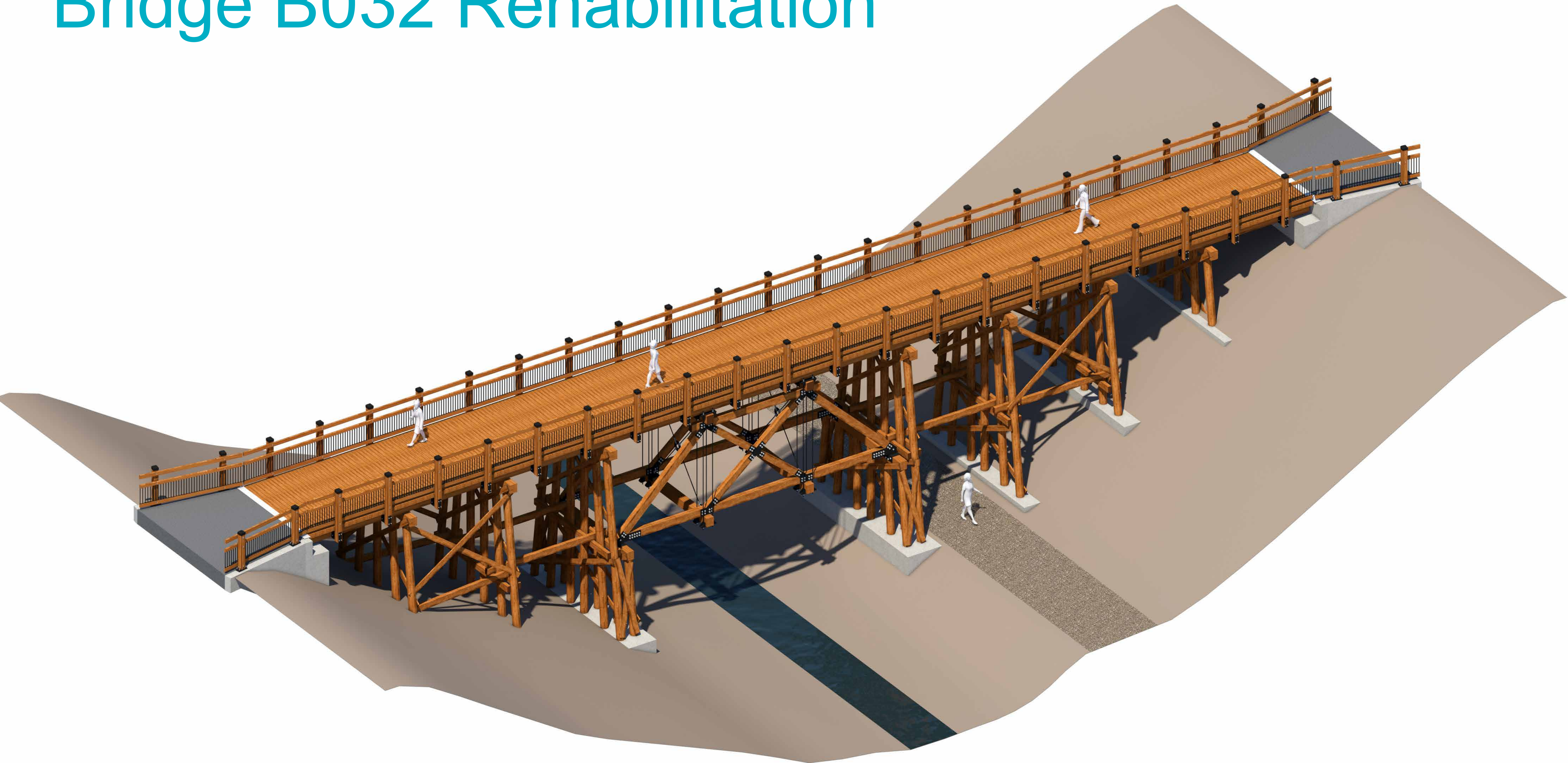
Bridges B032 and B033 will be **repaired** while maintaining their historical look. This will include:

- Replacing rotten wood throughout
- 20% of the historic timbers will be salvaged for reuse on the bridges
- Constructing new concrete abutments and foundations
- Adding new handrails
- Widening the bridge deck from 3.2 m to 4.2 m to meet current design standards (Transportation Association of Canada)
- Repairing and improving erosion protection and stabilizing slopes
- Removing piers from the creek and replace with new truss span
- Improving structural durability
- Enhancing bridge approaches



Bridge B033 - Piers in creek to be removed

Bridge B032 Rehabilitation



Bridge B033 Rehabilitation

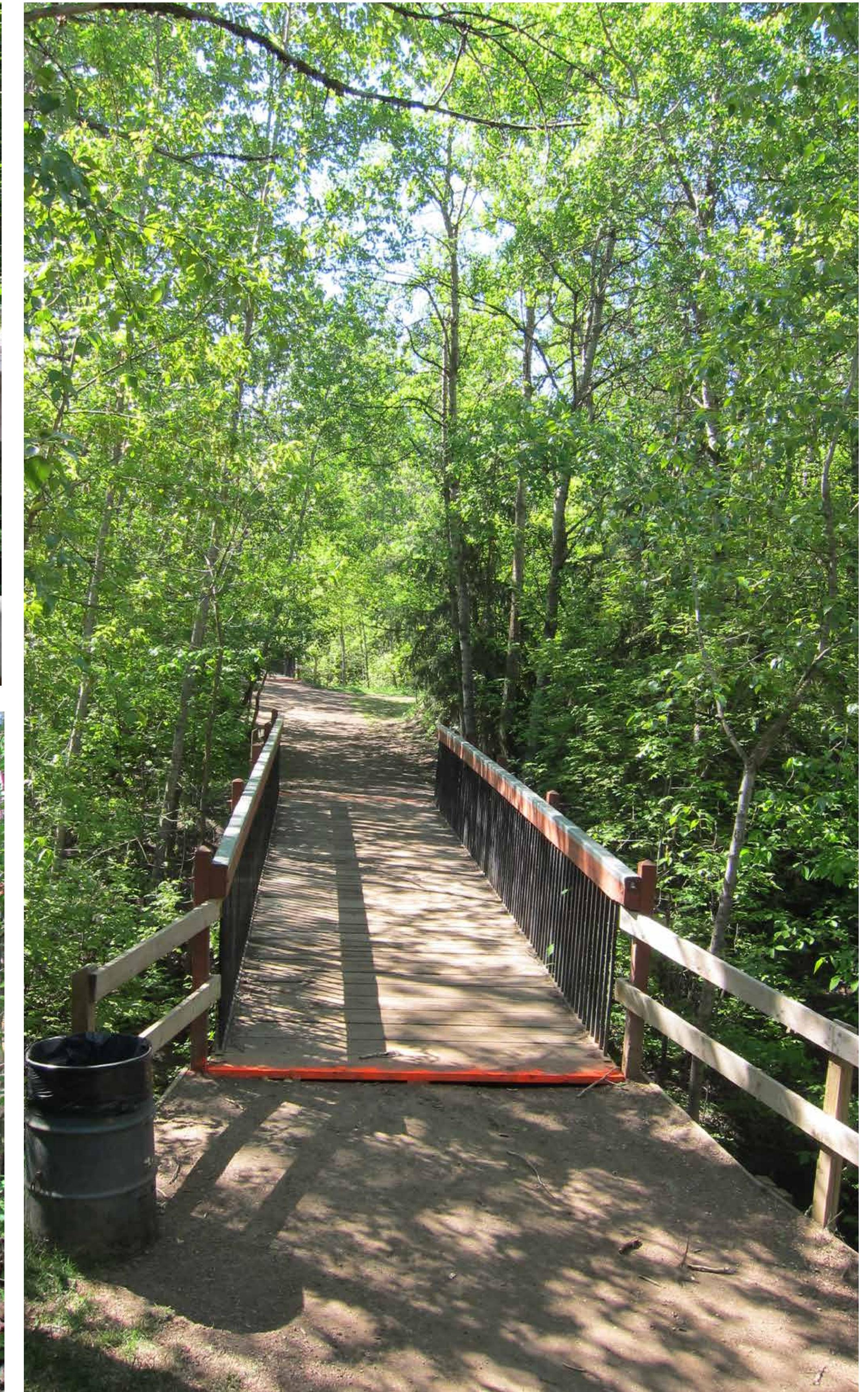


Concrete mats will be vegetated

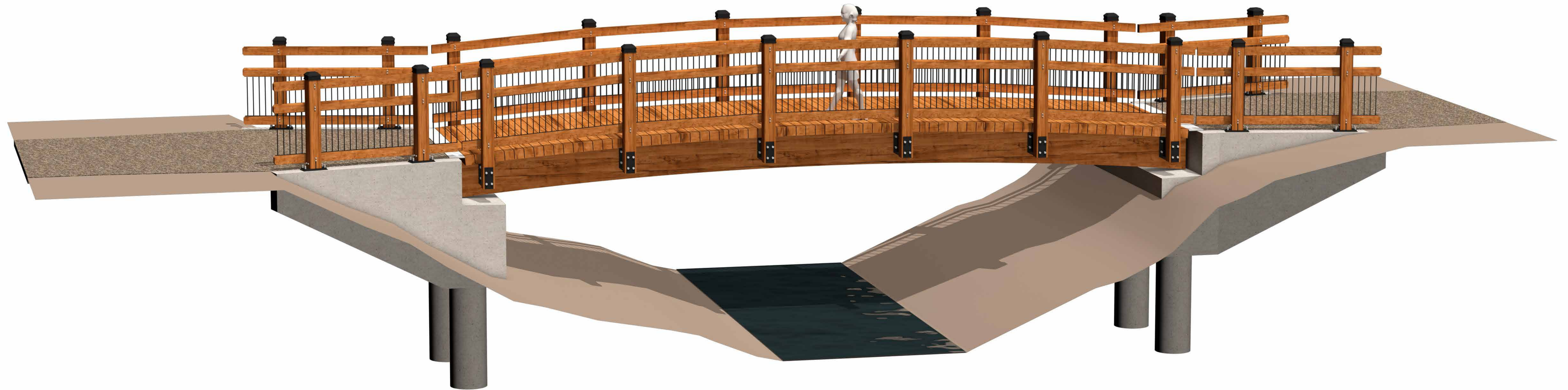
Glulam Bridges B198 and B200

Bridges B198 and B200 will be **replaced** with similar looking structures. This will include:

- Widening bridge deck from 2.4 m to 3.0 m
- Constructing new concrete abutments and foundations
- Improving structural durability
- Enhancing bridge approaches



Bridge B198/B200 Replacement



Other City Projects in Mill Creek Ravine

Mill Creek Daylighting Feasibility Study

Website: www.edmonton.ca/millcreekstudy

Mill Creek Water Quality Study

Website: www.edmonton.ca/millcreekwaterquality

Mill Creek Multiple Trail Realignments

Email: shannon.hall@edmonton.ca

LRT Valley Line Project

Website: www.transedlrt.ca

General website for Mill Creek Ravine Information:
edmonton.ca/millcreekravine

Thank you

**Please fill out a comment form,
we value your feedback**

Visit our website:
edmonton.ca/millcreekpedbridges