



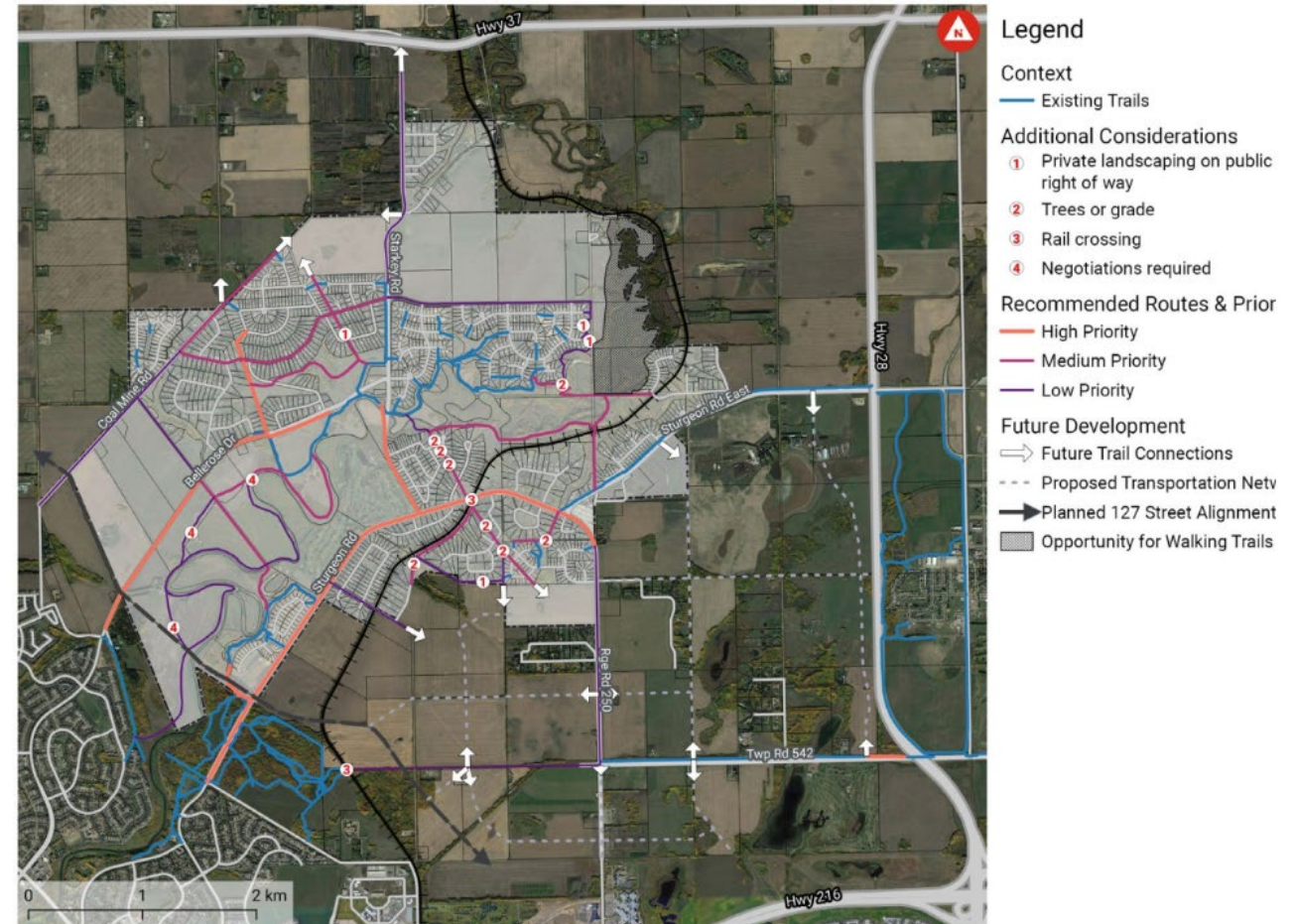
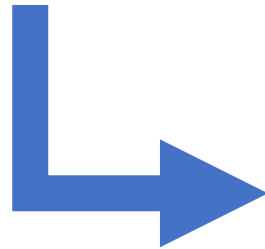
Starkey Pedestrian Bridge and Pathway

**Project Background for
Transportation Advisory Committee (TAC)**



Sturgeon
C O U N T Y

Project Origin

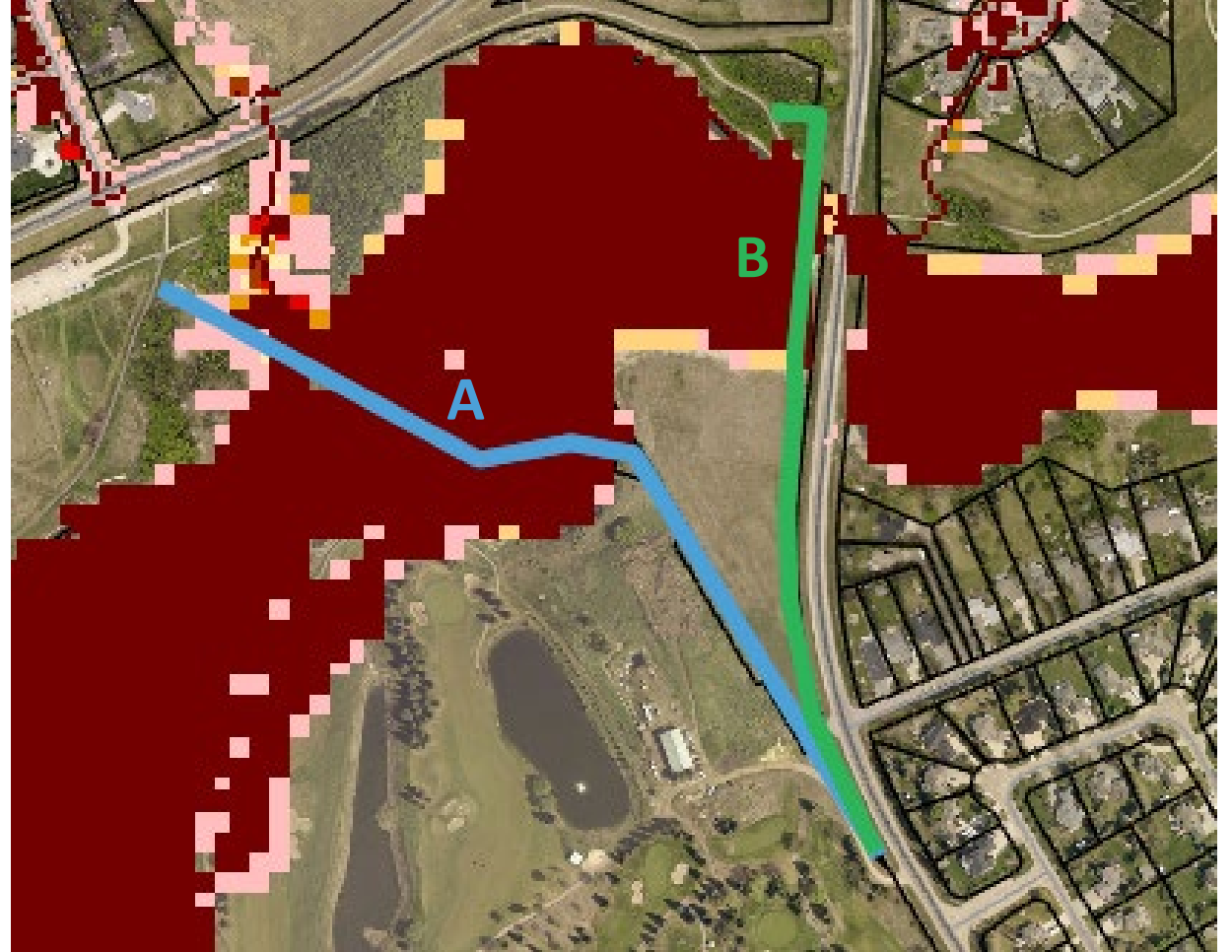


<https://www.sturgeoncounty.ca/file/report-sturgeon-valley-trails-system/> OR sturgeoncounty.ca search: “Sturgeon Valley Trails System”

Alignment Options Considered

Considerations

- Both alignments require crossing the floodplain
- Length of construction of alignment A is somewhat longer compared to B, but provides better connectivity to Bellerose Park
- Less utility conflicts along Alignment A compared to B
- County was ultimately able to secure land for alignment A to allow the project to proceed



More Info: <https://open.alberta.ca/publications/st-albert-flood-study>

2020 Aerial Image



Public Engagement



Jan 2025 Project Open House



Public engagement – What we did

Details about the project were posted online on the Starkey Road Pedestrian Bridge and Pathway Project (Starkey Project) webpage, where visitors could also access and complete an online survey to share their input.

An in-person open house was held at the Sturgeon Valley Golf and Country Club (25114 Sturgeon Rd, Sturgeon County) from 6 to 8 p.m. on January 29, 2025. The event was promoted through various channels, including the Starkey Project webpage, signs on roads/trails in the area, social media and the County's weekly e-newsletter.

In-person open house

- 40 people attended the open house.
- The event kicked off with a short presentation that covered key details about the project and the methods used to inform key decisions on the project.
- Participants were able to ask questions at the end of the presentation.
- One-on-one conversations took place throughout the evening to share further information, answer additional questions and receive feedback.
- Participants were invited to provide their answers to the survey questions by placing dots on a paperboard displaying each question from the survey (this method is referred to as a 'dotmocracy').

- 27 dotmocracy surveys were completed at the open house and one written response was also submitted (NOTE: some participants did not answer all the survey questions).
- Several comment cards were also received with additional feedback.

Online survey posted to the Starkey Project webpage

- 48 online surveys were completed between January 10 and February 5, 2025.

Input in numbers

- 76 people completed the survey
- 48 online surveys
- 28 dotmocracy surveys

What we asked

The survey included 9 prompts:

1. Are you a resident of the Sturgeon Valley?
2. Which of the following bridge designs do you prefer?
3. Which type of material do you prefer for the bridge structure?
4. Would you prefer the bridge to be equipped with a lighting system?
5. How important is the aesthetic appearance of the bridge to you?
6. How important is it for the bridge to be made of materials that match the surrounding environment (e.g., in natural colour)?
7. How important is the durability of the materials used in the bridge construction, particularly considering local weather conditions?
8. How important are sustainability principles in the selection of materials?
9. Do you think the proposed bridge should have any additional features? (open comment question)

Full survey results are provided in the Appendix.

What we heard

The scope of the engagement was to assess design preferences specifically, but survey respondents and open house participants were also encouraged to provide additional feedback, if desired. All survey responses and feedback were recorded and will be considered in the context of this project.

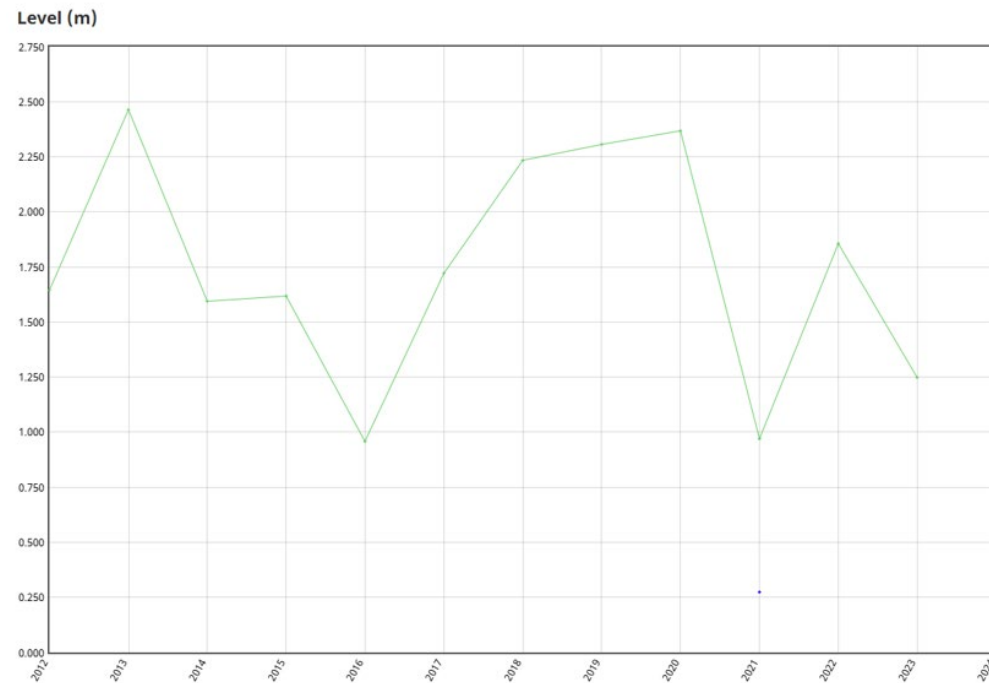
Results

The following is a summary of the survey results:

- o 92% of respondents were residents of Sturgeon Valley;
- o Option A was selected as the preferred design style by more than 69% of respondents
- (**simple bridge style**);
- o 77% of respondents preferred a **combination of material**;
- o 48% of respondents indicated the bridge should be equipped **with lighting** (11% were unsure);
- o 48% of respondents said the aesthetic appearance of the bridge is somewhat important;
- o 48% of respondents said it is somewhat important for the bridge to be made of materials that match the surrounding environment;
- o The majority of respondents (nearly 82%) indicated that durability of materials is very important to them;
- o Half of survey respondents felt that sustainability is important.
- o Additional comments received included suggestions such as incorporating seating and viewing platforms on the bridge, expanding nearby parking to accommodate for increased use of the trail, making the trail wider or narrower and ensuring safety considerations around the nearby Sturgeon Road roundabout.

2026 Extreme Weather Event

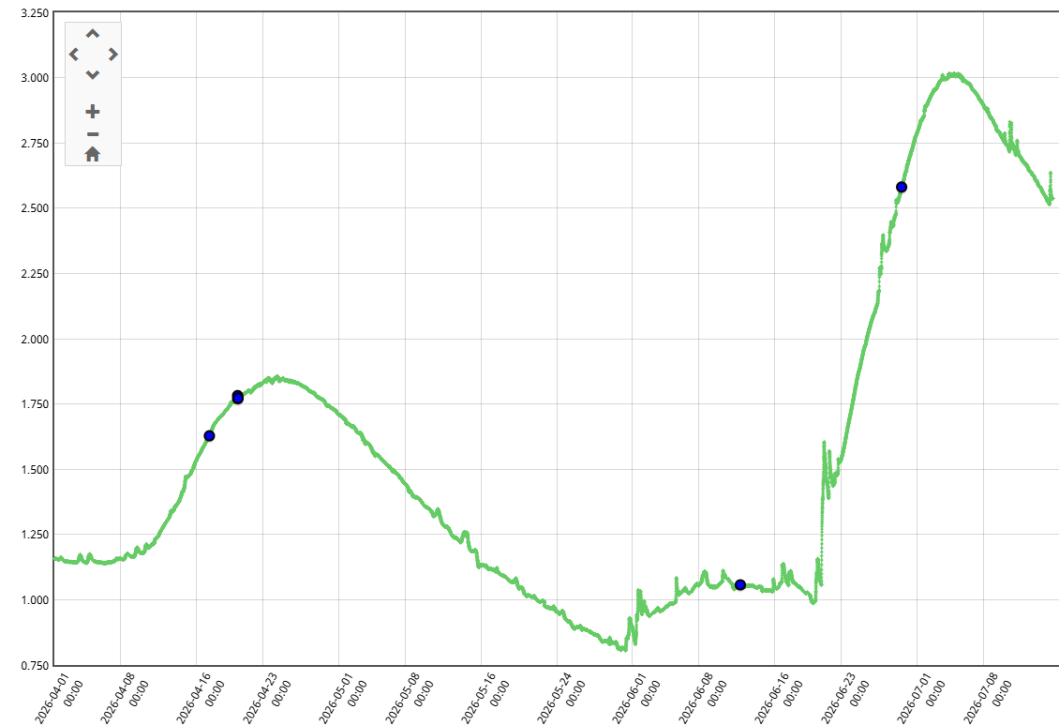
Historical Maximum Water level by Year (2026 in red)



Upstream Station in St Albert

Source: Environment and Natural Resources Canada https://wateroffice.ec.gc.ca/search/real_time_e.html

2026 Water Level



2026 Extreme Weather Event

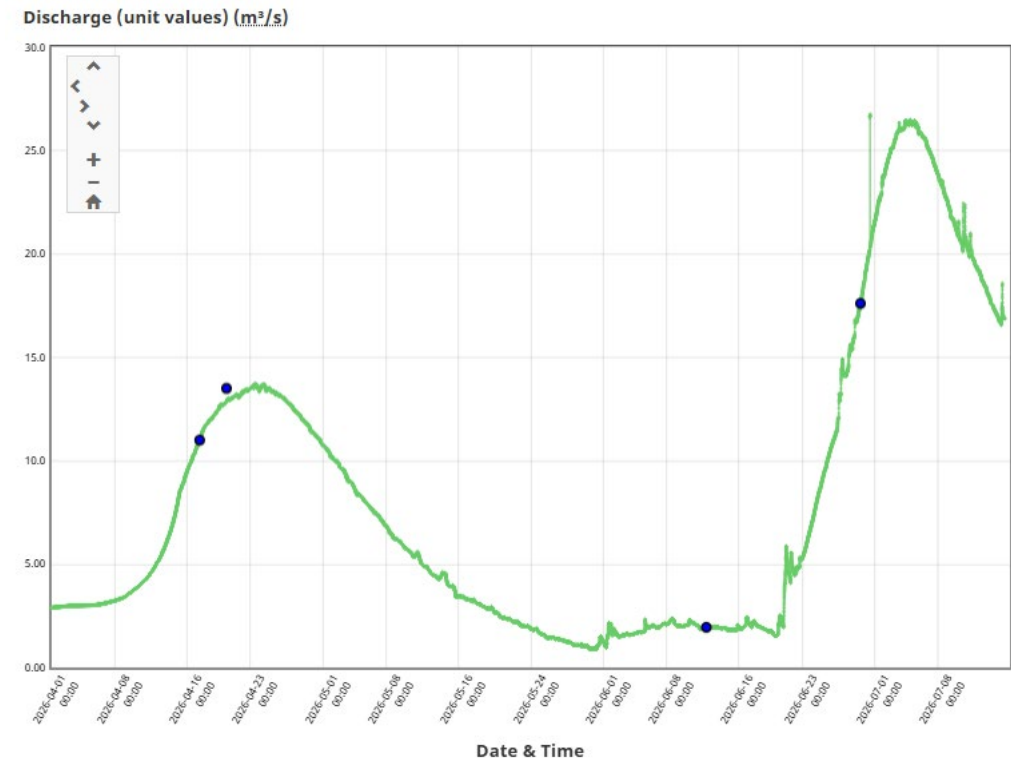
St Albert Flood Study Discharge Recurrence

TABLE D Sturgeon River at St. Albert (05EA002), Flood Frequency Estimates

Return Period (years)	Instantaneous Peak Discharge ¹ (m ³ /s)
2	14
5	27
10	39
20	52
35	64
50	72
75	82
100	90
200	110
350	130
500	140
750	155
1000	166

¹ Rounded to nearest whole number.

2026 Peak Discharge (26.2m³/s)

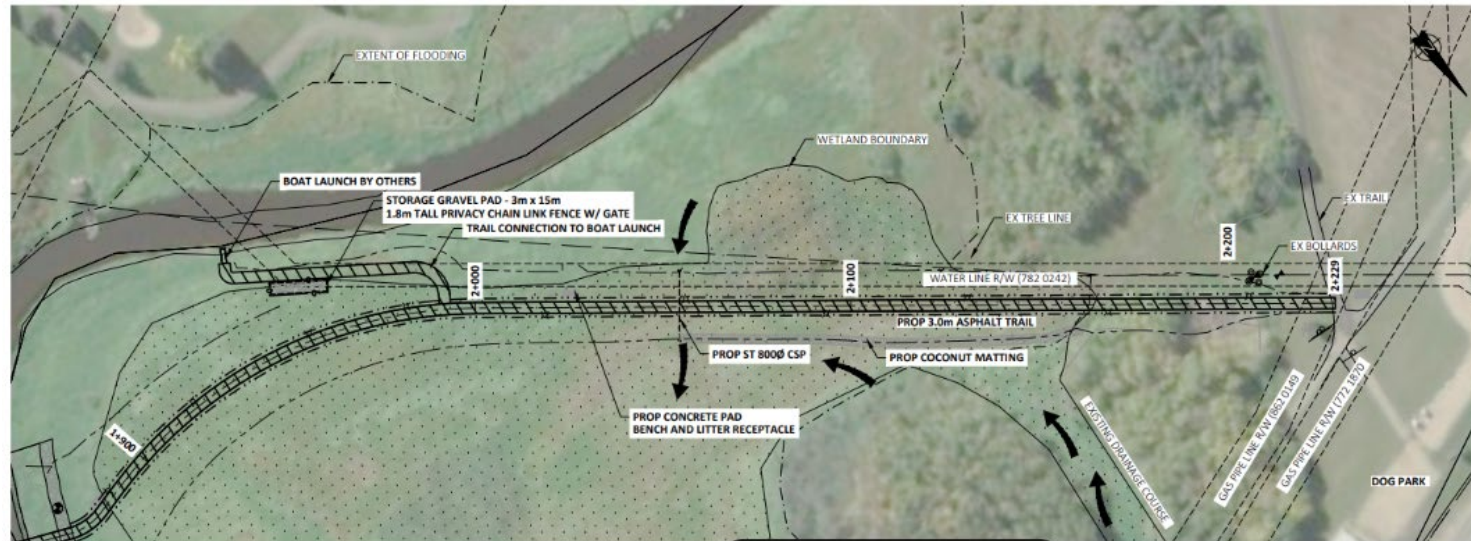
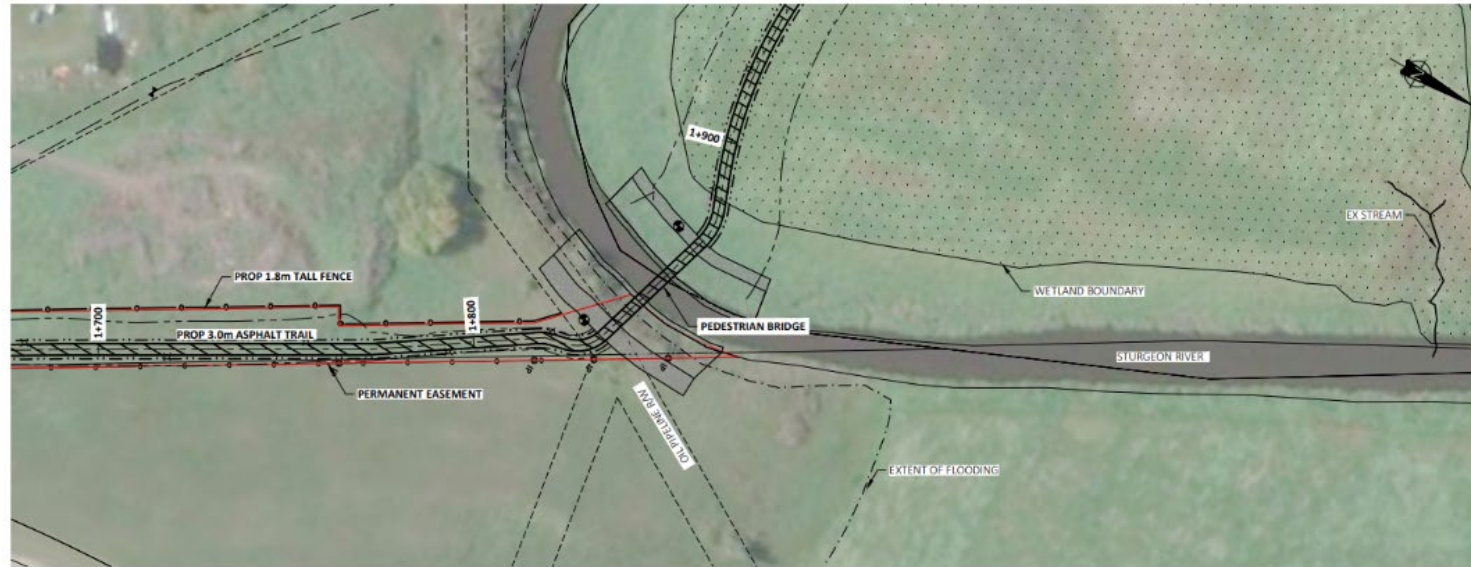


Note: Recurrence Period of River Response is not equivalent to recurrence period of accumulated precipitation

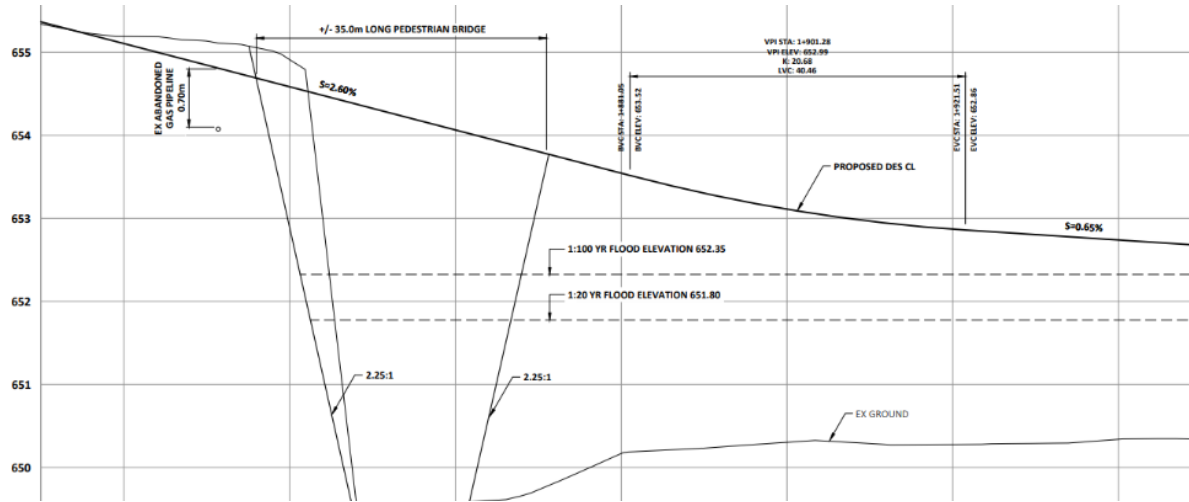
Upstream Station in St Albert (05EA002)

Source: <https://open.alberta.ca/publications/st-albert-flood-study> & https://wateroffice.ec.gc.ca/search/real_time_e.html

River Crossing / Berm Design

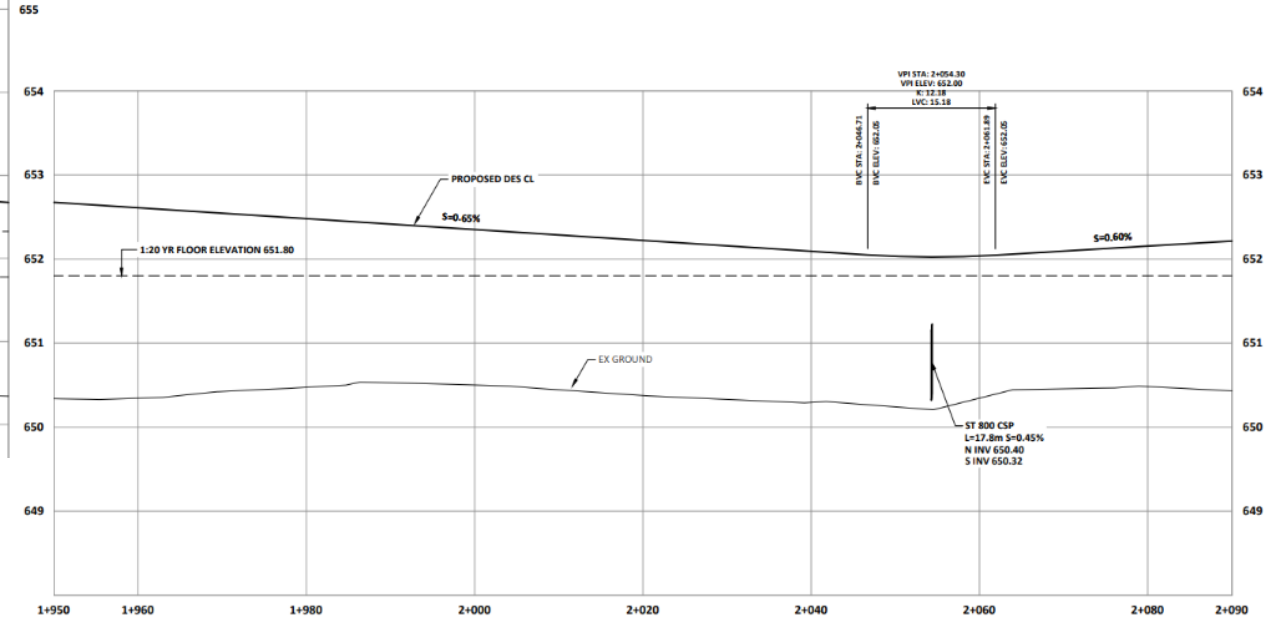


River Crossing / Berm Design



Notes:

- Bridge designed to be above 1 in 100 year flood Elevation + Berm above 1 in 20 year flood elevation
- In alignment with standards and exceeds approach of some regional peers
- Full environmental and hydrology assessment completed and required permitting received



Based on available data, it's expected that during the 2026 Extreme Weather Events the Starkey Pedestrian Trail segment in the floodplain would be above floodwater levels due to the berm being constructed

Bridge Photo



Bridge – Design Example



Completed Work





Questions?

Thank you!