

Bowness flood barrier: project update

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Project background & update

- In 2016, The City hired external consultants to assess and recommend future resiliency and flood mitigation measures for Calgary. The Bowness flood barrier project was one of those recommendations.
- Conceptual design studies were completed to determine feasibility of permanent flood barriers.
- The City hosted a community information session in January 2018, to inform citizens about the project and how it came to be.
- Since January 2018, The City has:
 - Hired an engineering consulting firm (Klohn Crippen Berger)
 - Hired an engagement consulting firm (Context Research)
 - Recruited an internal project team



Stages of design

Stages of design: Community flood barrier projects

We are here





Conceptual design | High level concept to determine feasibility and high level cost estimate, based on existing information. Design at this stage is usually 10% complete.



Preliminary design | Once a general concept has been determined (e.g. to build community level flood barriers), preliminary design is initiated. During preliminary design, field studies, technical analysis, and surveys are completed to validate the potential options and public input is sought. This stage aims to advance design from the 10 to 30% level and identify a preferred option. Cost estimates are further refined.



Detail design | Once a preferred option has been selected it moves into detailed design. During this stage, the details of the final alignment are determined and detailed engineering drawings are developed. Cost estimates are further refined for the construction and operating costs, as well as the construction scheduling are prepared at this stage. Public input may be sought at this stage to confirm and validate the design (30 to 90%).



Final design | During final design, any outstanding design issues are resolved and detailed engineering drawings are finalized. The updated schedule, cost estimates and specifications are contained in the final design report. These designs are of sufficient detail that the work can be tendered (100%).



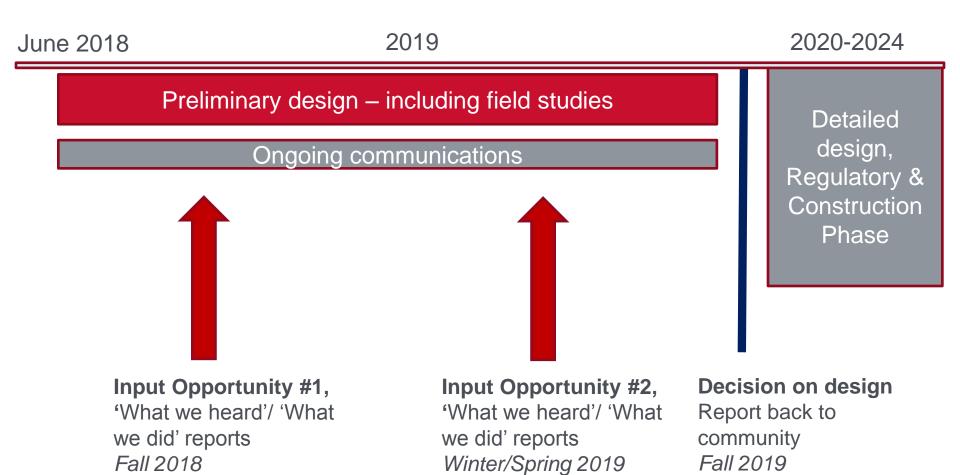
Preliminary Design Start Summer 2018 – Fall 2019

Studies to be undertaken:

- Hydrogeological (groundwater studies)
- Site surveys
- Geotechnical investigations
- Flood modelling
- Stormwater management
- Landscape architecture and design
- Environmental assessments and regulatory applications
- Revised cost estimates



Overall timeline & decision-making process







Working together, moving forward



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Working together, moving forward

How would you like us to engage with you going forward?

What recommendations do you have on how to best reach out to your members?

What is the best way to engage with the community as a whole?

Are there other groups that we should be reaching out to (e.g. the Business Association, Seniors Association, etc)?



How to stay up-to-date

- 1.Web page: Calgary.ca/BownessBarrier
- 2. Sign-up to receive project updates, in the form of an electronic newsletter.
- 3. 'Frequently Asked Questions and Answers' document will be updated.
- 4. Bowest'ner community newsletter
- 5.Email BownessBarrier@calgary.ca.
- 6.Phone 3-1-1.



Questions?

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