

4.60m
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**NO
CLIMBING
OR
JUMPING
FROM BRIDGE**
City of Courtenay

5th Street Bridge Rehabilitation

Staff Report Presentation

June 24, 2019

Courtenay City Hall

Presentation Objectives

1. Overview of the 5th Street Bridge Rehabilitation Project
2. Potential levels of service
3. Project scope and financing
4. Seek direction from Council on how to proceed

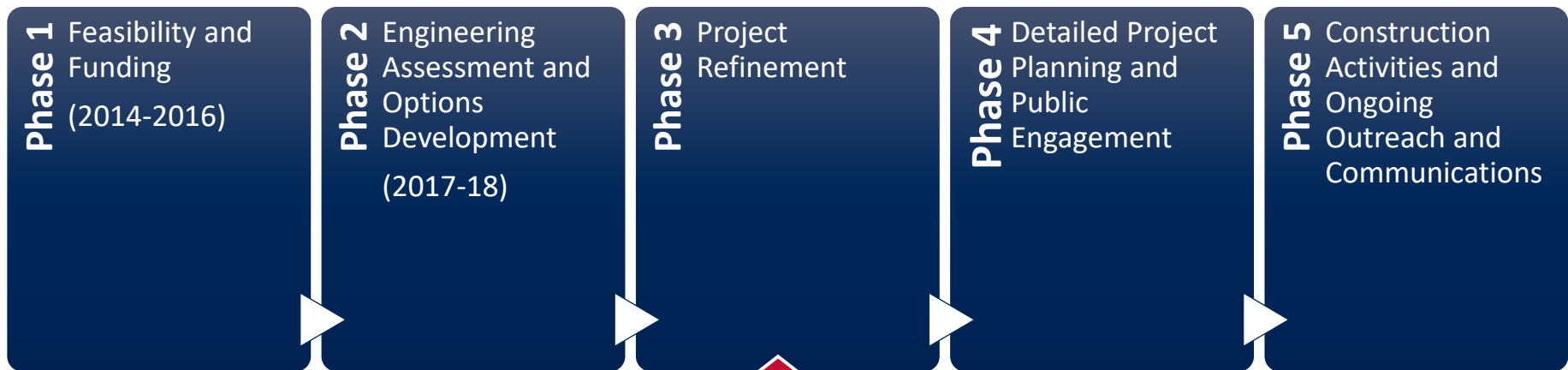
Strategic Plan Reference

- Implement key transportation initiatives
- Focus on asset management for sustainable service delivery

“To extend the service life of a bridge asset requires routine maintenance and periodic rehabilitation.”



Project Development Stages

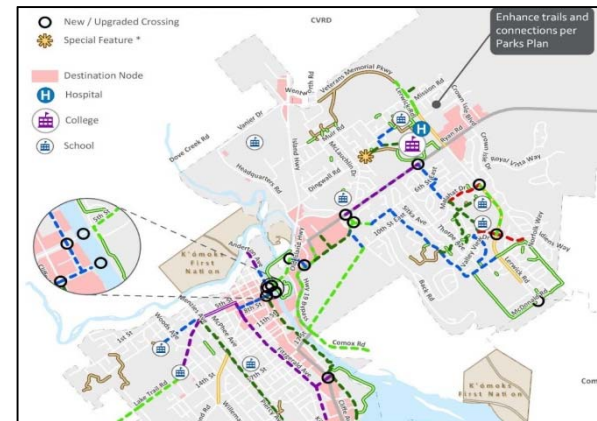
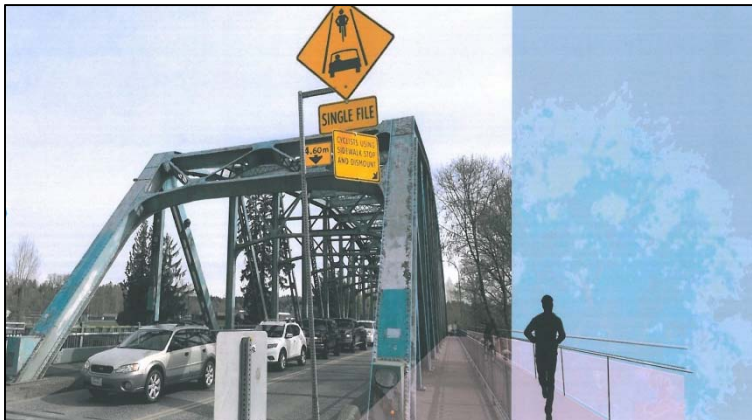


Project Options



Four options for consideration:

1. *Original Scope - Rehabilitation*
2. *Rehabilitation + Cantilevers*
3. *Defer Project*
4. *New pedestrian bridge at 6th Street*



Option 1



Original Scope Rehabilitation

Features:

- Full recoating, deck repairs and related upgrades
- Approx. 6 month construction
- City funding required for \$4.3 million
 - \$0.94 million City reserves
 - \$3.4 million City borrowing

COST (2019 \$)	
Bridge Recoating	\$4.1 million
Cathodic Protection	\$1.05 million
Structural Improvements	\$0.8 million
Traffic Management	\$0.35 million
Total	\$6.3 million

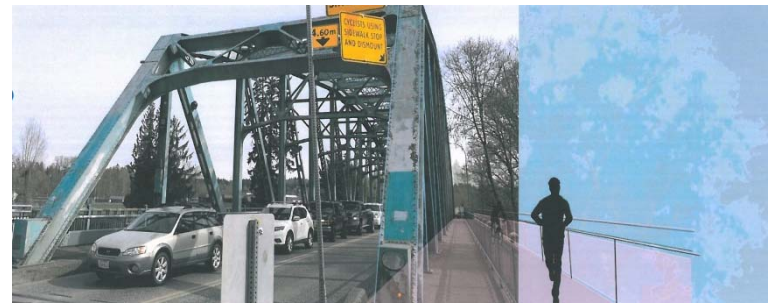
Option 2



Rehabilitation + Cantilevers

Features:

- Full recoating, deck repairs and related upgrades
- Bike and pedestrian facilities on both sides of bridge
- Approx. 8 month construction
- City funding required for \$6.3 million
 - \$0.94 million City infrastructure reserve
 - \$5.4 million City borrowing



COST (2019 \$)	
Bridge Rehabilitation	\$6.3 million
Cantilever Paths	\$2.0 million
Total	\$8.3 million

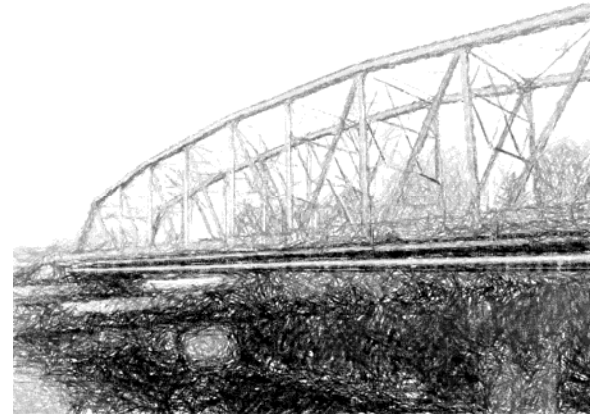
Option 3



Defer 5th Street Bridge Rehabilitation

Features:

- Return \$1.96 million in grant funding
- Asset deterioration continues
- Cost escalation continues
- Liability considerations



Option 4



New 6th Street Pedestrian Bridge

Features:

- Additional design, planning and environmental work required
- Opportunity to work with community groups
- No current funding, could be identified for future opportunities
- Preliminary cost estimate \$2 - \$4 million, wide range of options



Project Development Options Summary



	Original Scope Rehabilitation	Rehabilitation + Cantilevers	Defer Project	New 6 th Street Bridge
Duration	6 months	8 months	N/A	N/A
Bridge Recoating	\$4.1M	\$4.1M	TBD	N/A
Structural & Traffic	\$2.2M	\$2.2M	TBD	TBD
Cantilever Paths	-	\$2.0M	TBD	N/A
Total	\$6.3 million	\$8.3 million	TBD	\$ 2 to 4 million
City Borrowing Amount	+ \$3.4M	+ \$5.4M	N/A	All
Borrowing Costs	\$233,300	\$370,550	N/A	N/A
Tax Impact	1.0%	1.6%	N/A	N/A

Funding/Financing Summary



- **Funding**

- Based on multiple conversations with the funding agency, deferring or significantly reducing scope of the rehabilitation project would almost certainly result in a loss of the grant monies

- **Financing**

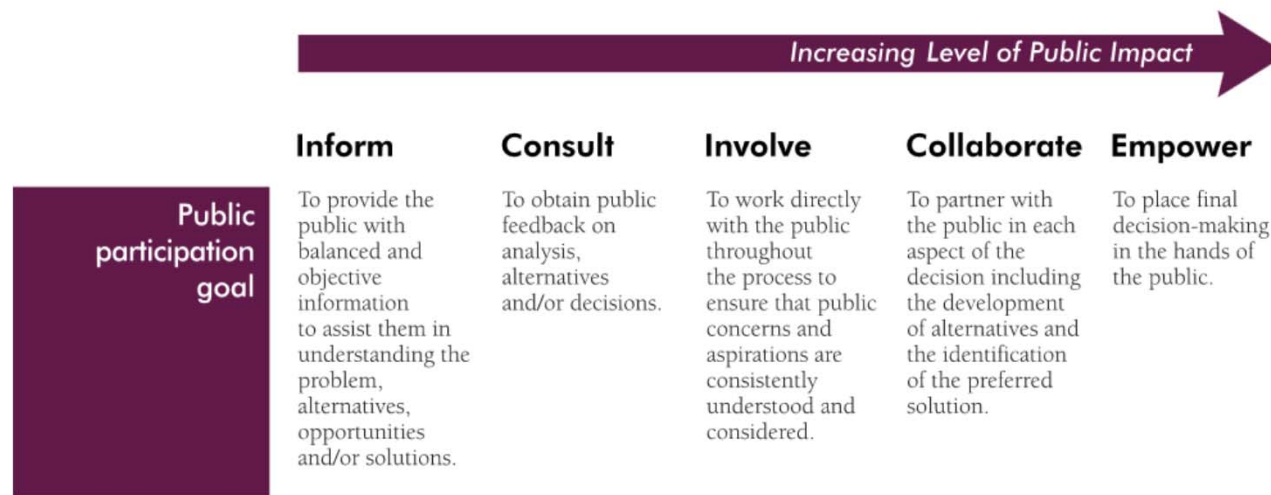
- Project costs beyond grant funding and available reserves to be financed as per standard municipal borrowing procedures for capital works (MFA 3.14%, 20 year amortization used for these borrowing cost estimates)
- Borrowing process must begin before October 31, 2019

Citizen/Public Engagement



- **Engagement Strategy**

- Proactive public engagement strategy to be developed to effectively communicate and mitigate impacts to variety of users and stakeholders



CAO Recommendation: Options 1 and 4

OPTION 1: That Council direct staff to proceed with the associated next steps to rehabilitate the 5th Street Bridge within its original scope including development of a detailed traffic management and public engagement plans, and report back to Council no later than September 16, 2019; and

That staff prepare a supporting draft Borrowing Bylaw for Council consideration.

OPTION 4: That staff bring forward a report providing options for exploring a 6th Street multi-use pedestrian-bike bridge as an alternative to an upgrade to the 5th Street Bridge of adding cantilevered multi-use pathways; and

That a decision to explore and report on further development of a 6th Street multi-use pedestrian-bike bridge be subsequent to Council's receipt and adoption of the forthcoming Transportation Master Plan.



Questions?