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

Phase 1: Feasibility and Funding (2014-2016)
Phase 2: Engineering Assessment and Options Development (2017-18)
Phase 3: Project Refinement
Phase 4: Detailed Project Planning and Public Engagement
Phase 5: Construction Activities and Ongoing Outreach and Communications

We are here
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

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

<table>
<thead>
<tr>
<th>COST (2019 $)</th>
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</thead>
<tbody>
<tr>
<td>Bridge Recoating</td>
<td>$4.1 million</td>
</tr>
<tr>
<td>Cathodic Protection</td>
<td>$1.05 million</td>
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<tr>
<td>Structural Improvements</td>
<td>$0.8 million</td>
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<tr>
<td>Traffic Management</td>
<td>$0.35 million</td>
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<tr>
<td>Total</td>
<td>$6.3 million</td>
</tr>
</tbody>
</table>
Option 2

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

Rehabilitation + Cantilevers

<table>
<thead>
<tr>
<th>COST (2019 $)</th>
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<tbody>
<tr>
<td>Bridge Rehabilitation</td>
<td>$6.3 million</td>
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<tr>
<td>Cantilever Paths</td>
<td>$2.0 million</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$8.3 million</strong></td>
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</tbody>
</table>
Option 3

Features:
• Return $1.96 million in grant funding
• Asset deterioration continues
• Cost escalation continues
• Liability considerations

Defer 5th Street Bridge Rehabilitation
Option 4

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
<table>
<thead>
<tr>
<th></th>
<th>Original Scope Rehabilitation</th>
<th>Rehabilitation + Cantilevers</th>
<th>Defer Project</th>
<th>New 6th Street Bridge</th>
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<td>Duration</td>
<td>6 months</td>
<td>8 months</td>
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<tr>
<td>Bridge Recoating</td>
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<td>$4.1M</td>
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<tr>
<td>Structural &amp; Traffic</td>
<td>$2.2M</td>
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<tr>
<td>Cantilever Paths</td>
<td>-</td>
<td>$2.0M</td>
<td>TBD</td>
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<tr>
<td>Total</td>
<td>$6.3 million</td>
<td>$8.3 million</td>
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<td>$2 to 4 million</td>
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<td>City Borrowing Amount</td>
<td>+ $3.4M</td>
<td>+ $5.4M</td>
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<td>Borrowing Costs</td>
<td>$233,300</td>
<td>$370,550</td>
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<td>Tax Impact</td>
<td>1.0%</td>
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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?