**Transportation Report to** SPC on Transportation and Transit 2017 April 19

APR 2 4 2017 ITEM: 12017 -0397 ISC: Urgent Business CITY CLERK'S DEPARTMENT	UNRESTRICTED TT2017-0397 Page 1 of 4

# **INFRASTRUCTURE CALGARY - TRANSPORTATION PROJECT** IMPLEMENTATION PLANS

# EXECUTIVE SUMMARY

These investments will support the five (5) Transportation projects outlined below. Funding is from existing available Corporate capacity as identified by Infrastructure Calgary, the budget approval for the program/project outlined will have no net impact on the tax rate.

- Baines Bridge Rehabilitation and Upgrading
- 2. 14 Street and 90 Avenue Southwest Pedestrian Bridge
- 3. 194 Avenue South Slough Crossing and CPR Grade Separation
- 4. Crowchild Trail Short Term Improvements
- Glenmore Trail and 68 Street Southeast Intersection Enhancement

# ADMINISTRATION RECOMMENDATION(S)

That the SPC on Transportation and Transit recommends that Council:

- 1. Receive for information the Transportation implementation plans in Attachment 1.
- 2. Approve capital budget as per Attachment 2 to be funded by corporate capacity identified by Infrastructure Calgary.
- 3. Direct that Attachment 2 be heard in-camera pursuant to subsection 23(1)(b) of the Freedom of Information and Protection of Privacy Act and remain confidential pursuant to subsections 24(1)(a) and 24(1)(g) of the Freedom of Information and Protection of Privacy Act until all implementation plans are approved by Council and the contract(s) for the project(s) considered in this report are awarded.
- 4. Receive this report as an item of Urgent Business for the 2017 April 24 Regular Meeting of Council.

# **RECOMMENDATION OF THE SPC ON TRANSPORTATION AND TRANSIT, DATED** 2017 APRIL 19:

That Council:

- 1. Receive for information the Transportation Implementation Plans in Attachment 1;
- Approve capital budget as per Attachment 2 to be funded by corporate capacity identified by Infrastructure Calgary; and
- 3. Direct that Attachment 2 be heard In Camera and remain confidential pursuant to sections 23(1)(b), 24(1)(a) and 24(1)(g) of the Freedom of Information and Protection of Privacy Act until all implementation plans are approved by Council and the contract(s) for the project(s) considered in this report are awarded, unless it is determined by the Directors of Supply and the responsible business unit to be appropriate to release budget information in advance of the contract(s) being awarded.

#### Transportation Report to SPC on Transportation and Transit 2017 April 19

# INFRASTRUCTURE CALGARY - TRANSPORTATION PROJECT IMPLEMENTATION PLANS

# **PREVIOUS COUNCIL DIRECTION / POLICY**

At its 2017 March 06 Strategic meeting, Council adopted report C2017-0214 which included the following direction:

"Direct Administration to return with implementation plans, including refined capital estimates, public consultation plans and financing strategies, to the Priorities and Finance Committee or the appropriate Standing Policy Committee as soon as possible for final approval by Council."

Prior to receiving the direction above, as part of the Action Plan Mid Cycle Adjustments report to Council on 21 November 2016, Council approved the Capital Investment Plan and authorized the Deputy City Manager to continue to identify capital funding sources, including allocations and efficiencies from existing capital budgets and to transfer funds to the Budget Savings Account. The Deputy City Manager was directed to return to Council no later than Q2 2017 with recommendations for new, or currently unfunded investment projects.

#### BACKGROUND

Infrastructure Calgary is a corporate program created to align and optimize capital investments and strengthen investment decision making and the processes involved in capital planning management.

In response to Council direction, Infrastructure Calgary established a Director led subcommittee of the Steering Committee to lead the identification, evaluation and selection of potential projects. The sub-committee looked at funding sources identified through a corporate capacity review to determine the best alignment based on funding restrictions and guidelines.

Projects were assessed according to four key filters determined by the sub-committee: Strategic Alignment, Project Readiness, Project Financials and Project Value and Benefit. After application of these filters, a peer review process looked at a project's ability to provide short term economic stimulus, add resilience in the community, including flood protection, maintain and preserve The City's existing infrastructure and community assets through lifecycle funding, build a great community through legacy investments, and leverage public and private investment.

As a result of this work, Infrastructure Calgary recommended twenty-one programs/projects to Council and received approval in principle. Individual implementation plans require Council approval.

# INFRASTRUCTURE CALGARY - TRANSPORTATION PROJECT IMPLEMENTATION PLANS

# INVESTIGATION: ALTERNATIVES AND ANALYSIS

The Transportation Department has completed implementation plans for the following projects:

- 1. Baines Bridge Rehabilitation and Upgrading
- 2. 14 Street and 90 Avenue Southwest Pedestrian Bridge
- 3. 194 Avenue South Slough Crossing and CPR Grade Separation
- 4. Crowchild Trail Short Term Improvements
- 5. Glenmore Trail and 68 Street Southeast Intersection Enhancement

Project implementation plans have been included for each project in Attachment 1.

Many of the above projects have recently gone to council outlining in more detail the project scope, cost and timing:

- 14 Street and 90 Avenue Southwest Pedestrian Bridge: 2017, January 18 report TT2017-0012
- Crowchild Trail Improvements: 2016 July 20 report TT2016-0599 and 2017 April 19 report TT2017-0329 to SPC on Transportation and Transit.

# Stakeholder Engagement, Research and Communication

See Attachment 1 for details on each project.

#### Strategic Alignment

See Attachment 1 for details on each project.

#### Social, Environmental, Economic (External)

See Attachment 1 for details on each project.

#### **Financial Capacity**

#### **Current and Future Operating Budget:**

There are anticipated operating budget impacts for these projects as outlined in Attachment 1. Any impacts associated with the capital project will be considered in the next budget cycle.

# **Current and Future Capital Budget:**

A capital budget approval is requested as per the implementation plans in Attachment 2. This budget request is to be funded by existing corporate capacity identified in report C2017-0214, which includes the capital budget savings account, corporate reserves, off-site levies and grant funding, and will have no net impact on the tax rate. The projects identified in Attachment 2 will primarily be funded by Program 888 – Corporate Capital Program. The requested budget and funding is consistent with the information provided by Infrastructure Calgary as part of report C2017-0214. Once the implementation plans for all projects are complete, funding allocations will be confirmed to optimize the use of the most restricted sources of funding.

# INFRASTRUCTURE CALGARY - TRANSPORTATION PROJECT IMPLEMENTATION PLANS

#### **Risk Assessment**

See Attachment 1 for details on each project.

#### **REASON(S) FOR RECOMMENDATION(S):**

Approval of these projects will advance construction timing, resulting in increased short term and long term job growth, leveraging of partners for cost sharing of projects, and stimulation of the economy.

Several of these projects are tender ready and will be able to advance to tender and construction quickly. This will allow the city to take advantage of the current market conditions with lower bid prices and get better value for our investment.

#### Attachments

- 1. Infrastructure Calgary Implementation Plans Transportation
- 2. Financing Strategies Infrastructure Calgary Implementation Plans Transportation (Confidential)
- 3. Project Locations and Proposed Designs



I. OVERVIE				
Recomment	2.53	Baines Bridge Rehabilitation and Upgrading		
Project Des				· · · · · · · · · · · · · · · · · · ·
<b>Executive summary</b> Provide a brief description of the project and what it is expected to deliver. Capture only the essential elements of the business case, including most pertinent facts, in a clear, concise and strategic manner. <b>Expected Key Deliverables</b>		Baines bridge is located at Zoo Rd. an maintenance rehabilitation. As part of widened on one side to provide a mu the pathway system in the vicinity and by the City and CMLC on St. Patrick's current safety standards for all users In order to minimize traffic disruption while Zoo Rd. is currently closed for the mitigation work which will be comple Extended life cycle of bridge by a min functional and aesthetic upgrades to	of the scope of work the s lti-use pathway that will h d will complement the re Island. The railings will be (pedestrians, cyclists and as this work needs to be c he 12 St. bridge replacem ted in the fall of 2017. imum of 10 years and add	idewalk will be be integrated with cent improvements e upgraded to meet wheelchair). completed in 2017 hent and zoo flood d additional
Benefits	Economic	Gross Output: 3,393,036		
Describe		Gross Domestic Product (GDP): 2,117	,856	
and/or		Income: 1,025,808		
quantify value and		Employment: 15		
outcomes of project	Social	Community outcomes (e.g. safety, health, attractive and well-designed city, inclusion and diversity): Improved safety due to higher railings and improved connections that promote active lifestyles such as walking and cycling. Leveraging current road closure so that the road does not need to be closed again to perform this work.		
	Environmental	Improvements to infrastructure for w GHG emissions.	valking and cycling contrib	outes to reduced
Return on Investment Describe short and long term investment returns including expected financial,		The timing of the proposed work would align with and take advantage of the current Zoo Road closure and therefore avoid impacts to vehicle and pathway users from occurring over a longer duration.		
social and environmental considerations, avoided costs etc. Include quantifiable and qualitative returns.		The west sidewalk of the bridge will be pathway along Zoo Road which will in the pathway users. The sidewalk mode environment and pathway connectiving goals and objectives in the Calgary Tr Development Plan.	nprove safety, mobility a dification will improve the ity in the region, and is su	nd experience of e walkable apported by several
		The work includes functional upgrades to extend the service life and significantly reduce maintenance costs in the short term. Aesthetic upgrades will be made to the visible areas of the structure with some design elements carried over from the 12 <sup>th</sup> St bridge project.		
Project	Address, Ward/	Ward 9	Project type (MUGS)	M - Maintenance
location	Catchment	-		
Business Ur		Transportation Infrastructure	·	
	<b>ignment</b> nformation and te this section	Council Priorities	A city that moves, A well run city	



# Infrastructure Calgary Implementation Plans – Transportation

Capital Investment Plan	Transportation and Transit
Calgary Economic Development (CED) 10 year Economic Strategy: Focus	Community
CED 10 year Economic Strategy: Strategy	2
CED 10 year Economic Strategy: Action	1

#### 2. RESILIENCE

Ducient / Due guant	Proposed investment will align with current closure of bridge	
Project / Program	Proposed investment will align with current closure of bridge	
Assumptions		
Constraints	Schedule of 12 Street bridge replacement	
Dependencies:	12 Street bridge replacement, Zoo Road flood mitigation project	
Risk(s):	Funding is required by June 1, 2017 in order to coordinate with existing projects	
Describe any known risks	schedules.	

# **3. PUBLIC CONSULTATION PLANS**

5. TOBELE CONSOLITATION TEAMS			
Provide a brief description	Zoo Road is currently closed to the public and this project will utilize the existing		
of public consultation	closure.		
completed and the dates			
of consultation.			
Provide a brief description	Information session tentatively planned for April/May alongside Zoo Flood		
of public consultation	Mitigation project and 12 <sup>th</sup> St Bridge.		
outstanding and the dates			
of the planned			
consultation.			

#### **4. CAPITAL ESTIMATES**

Estimate Class	3
External Funding (Anticipated /	None anticipated or received
Received)	
List funding source and their	
contribution to the total cost	
estimate	
Operating Impact	The work would provide a direct positive impact to operating costs with
Describe operating impact of	minimal/no bridge repairs or maintenance expected in the next 10 years.
investment if any (i.e. whether	
new or able to be absorbed within	
existing operating budget). Where	
possible provide a precise financial	
and operating response identifying	
operating benefits of the	
investment. Operational	
efficiencies may also be identified.	



1. OVERV				
Recommended Capital		14 Street and 90 Avenue Southwest Pedestrian Bridge		
Project Desc				
<b>Executive summary</b> Provide a brief description of the project and what it is expected to deliver. Capture only the essential elements of the business case, including most pertinent facts, in a clear, concise and strategic manner.		The project is for the construction of a pedestrian bridge across 14 St. at 90 Ave SW. This project was approved by Council in January 2017 under report TT2017- 0012. The pedestrian bridge will be constructed at the same time as the Southwest BRT project. The bridge will connect the communities of Pump Hill, Bayview and Palliser and the Glenmore Landing Shopping Centre with the community of Haysboro.		
	y Deliverables	<ul> <li>Improved safety for pedestri</li> </ul>	an and cyclist crossing of	14 St.
Benefits Economic		<ul> <li>Improved safety for pedestrial and cyclist clossing of 14 st.</li> <li>Improved connectivity to new BRT station to be constructed at Glenmore Landing Shopping Centre.</li> <li>Improved connectivity to regional pathway system.</li> <li>Gross Output: 11,875,627</li> </ul>		
Describe		Gross Domestic Product (GDP): 7,412	2,496	
and/or		Income: 3,590,329		
quantify		Employment: 51		
value and outcomes	Social	Community outcomes (e.g. safety, health, attractive and well-designed city,		
of project		inclusion and diversity): Improved safety, promotion of healthy lifestyle for walking/cycling and transit use		
	Environmental	Use of transit, walking and cycling all contribute to reduced GHG emissions.		
Return on Investment Describe short and long term investment returns including expected financial, social and environmental considerations, avoided costs etc. Include quantifiable and qualitative returns.		<ul> <li>The new pedestrian overpass aligns view</li> <li>2018.</li> <li>Specifically, the overpass will address</li> <li>1. A city that moves – respondi efficient transportation choid</li> <li>2. A healthy and green city – relifestyles for all Calgarians ar pathway system.</li> <li>The pedestrian overpass also support Calgary Transportation Plan (CTP) and the 2020 Sustainability Direction (20 improving walking in Calgary (2016).</li> </ul>	s: ng to the need for a varie ces. esponding to the need to nd connecting communiti ts: the goals and objectiv d Municipal Developmen 10); and Step Forward – a	ety of affordable and encourage healthy es to the regional es outlined in the t Plan (MDP) (2009);
Project location	Address, Ward/ Catchment	City-wide, Ward 11	Project type (MUGS)	G - Growth
<b>Business Ur</b>	nit (BU)	Transportation Infrastructure		
Strategic AlignmentCouncil PrioritiesIC has this information andwill complete this section		Council Priorities	A city of inspiring neighbourhoods, A city that moves, A healthy and green city	



# Infrastructure Calgary Implementation Plans – Transportation

Capital Investment Plan	Transportation and Transit, Growth
Calgary Economic Development	Community
(CED) 10 year Economic Strategy:	
CED 10 year Economic Strategy:	2
Strategy	
CED 10 year Economic Strategy:	1
Action	

#### 2. RESILIENCE

Project / Program	Construction of pedestrian bridge will be undertaken at the same time as the SW	
Assumptions	BRT project, limiting the impact to Calgarians.	
Constraints	Location of the ramps for the pedestrian bridge is contingent on road right of way,	
	access to BRT station and connection to communities. The locations of the ramps is	
	part of the public engagement currently underway.	
Dependencies:	Delivery of project at the same time as the SW BRT schedule, utility relocation and	
-	upgrading.	
Risk(s):	Community concerns regarding SW BRT project	
Describe any known risks		

## 3. PUBLIC CONSULTATION PLANS

J. I ODLIC CONSOLIATION I	5. FUBLIC CONSULTATION FLANS			
Provide a brief description of public consultation completed and the dates of consultation.	Online engagement as part of the Southwest BRT Facilitated Citizen Involvement was undertaken from February 22 to March 8, 2017. In person meetings with the Community Associations for Haysboro and Pumphill, Bayview, and Palliser were held March 7 and March 16 respectively. A facilitated workshop with members of the community associations and key stakeholders was held on March 18, 2017.			
	A What We Heard report will be available online by the end of April 2017.			
Provide a brief description of public consultation outstanding and the dates of the planned consultation.	Further discussions will be held with the two adjacent community associations as well as Glenmore Landing Shopping Centre owner and the Jewish Community Centre as the detailed design progresses.			



## 4. CAPITAL ESTIMATES

Estimate Class	4
External Funding (Anticipated /	None anticipated or received
<b>Received)</b> List funding source and their contribution to the total cost estimate	
<b>Operating Impact</b> Describe operating impact of investment if any (i.e. whether new or able to be absorbed within existing operating budget). Where possible provide a precise financial and operating response identifying operating benefits of the investment. Operational efficiencies may also be identified.	The proposed pedestrian overpass will not have a significant effect on the existing operating budget. There will be increased costs for life cycle maintenance and inspections and annual costs for cleaning and snow and ice clearing. These additional costs can be accommodated within the existing operating budget. Estimated cost is \$5000-\$7000 per year.



1. OVERVIE		194 Avenue South Slough Crossing a	nd CPR Grade Separatio	n
Project Desc	-			
<b>Executive summary</b> Provide a brief description of the project and what it is expected to deliver. Capture only the essential elements of the business case, including most pertinent facts, in a clear, concise and strategic manner.		This project is for the extension of 194 Avenue South from Macleod Trail westerly to Sheriff King Street. The work includes a crossing over the Priddis slough and a grade separation over the CPR line and future LRT. This project will support current and planned growth of adjacent developments by providing an east-west connection across Macleod Trail south of Highway 22X. Funding is required to pay for front ending of developer contribution for road construction of 194 Ave. from the CPR line to Sheriff King Street and for		
Expected Key Deliverables		additional costs related to challenging geological conditions and construction in the wetland. The Priddis slough and CPR line to the west of Macleod Trail serve as a barrier to enhanced east-west connection out of the communities of Silverado and future communities of West Macleod. Construction of the 194 Avenue crossing of the Priddis slough and CPR grade separation will allow for an east-west connection to service this fast-growing area. This project will align investment in South Macleod to support The City's Growth Management priorities.		
Benefits	Economic	This project will provide a needed see all-turns intersection at 6 St SW will b completion of the Southwest Ring Ro Fire Department Servicing Plan for all Fire to adequately serve this area wit Gross Output: 33,930,363	be converted to a half-int ad. This project also alig I of South Macleod and is	erchange with the ns with the Calgary s a requirement for
Describe	Economic	· · · ·	10 EC1	
and/or		Gross Domestic Product (GDP): 21,178,561		
quantify		Income: 10,258,083		
value and		Employment: 145		
outcomes of project	Social	Community outcomes (e.g. safety, he inclusion and diversity): Improved traces in the inclusion and diversity in the inclusion and the incl		
	Environmental	A wildlife crossing and accommodation the project.		
<b>Return on Investment</b> Describe short and long term investment returns including expected financial, social and environmental considerations, avoided costs etc. Include quantifiable and qualitative returns.		Construction of 194 Avenue Southeast extension will enable and support development in the West Macleod Area. 194 Avenue is essential to provide a reliable route for the Calgary Fire Department with the roadway crossing over CP tracks. This road is especially needed in light of the traffic restrictions at 6th Street SW during the Calgary Southwest Ring Road construction.		
	Address, Ward/	Ward 14	Project type (MUGS)	G - Growth
location	Catchment			
	nit (BU)	Transportation Infrastructure		



<b>Strategic Alignment</b> IC has this information and will complete this section	Council Priorities	A city that moves, A city of inspiring neighbourhoods
	Capital Investment Plan	Transportation and Transit, Growth
	Calgary Economic Development (CED) 10 year Economic Strategy: Focus	Community
	CED 10 year Economic Strategy: Strategy	2
	CED 10 year Economic Strategy: Action	1

# 2. RESILIENCE

<ul> <li>Provides an additional access to the West MacLeod area which improves</li> </ul>	
resilience.	
<ul> <li>Pre builds future LRT grade separation which reduces the dependency on</li> </ul>	
automobile and will promote future transit access to the community	
Land acquisition – currently underway	
Underground utility servicing underway by UEP	
Fill material availability	
Regulatory approvals	

## 3. PUBLIC CONSULTATION PLANS

Provide a brief description	Communication and engagement was an important component of the Macleod and
of public consultation	194 Avenue Connection planning process. Information sessions for the project were
completed and the dates	held in February 2015 and June 2015. A third Information Session took place on
of consultation.	March 15, 2017, to provide a further update about the project.
Provide a brief description	No further consultations are planned. Regular project updates will be provided on
of public consultation	the project web page.
outstanding and the dates	
of the planned	
consultation.	



# 4. CAPITAL ESTIMATES

Estimate Class	2
External Funding (Anticipated / Received) List funding source and their	None anticipated or received
contribution to the total cost estimate	
<b>Operating Impact</b> Describe operating impact of investment if any (i.e. whether new or able to be absorbed within existing operating budget). Where possible provide a precise financial and operating response identifying operating benefits of the investment. Operational efficiencies may also be identified.	<ul> <li>Addition of 8.4 lane-km will add sweeping, snow clearing, and boulevard maintenance of approximately \$73,500 per year.</li> <li>Structures maintenance will also increase with the addition of three new structures, with activities such as <ul> <li>Inspections,</li> <li>Deck and pier washing,</li> </ul> </li> <li>Surface course replacement of approximately \$56,000/per year</li> </ul>



Recommended Project Descript Executive summ Provide a brief of the project and expected to deli only the essentio the business cass most pertinent f clear, concise ar manner. Expected Key De	ion hary lescription of what it is ver. Capture al elements of e, including facts, in a hd strategic	Crowchild Trail Short Term Improve Crowchild Trail is an important skeler network, with over 100,000 vehicles important role in the movement of g way to key destinations, and serves a emergency services throughout Calg crossing is contributing to several fur significant bottlenecks resulting from lack of continuous lanes from as far a The improvements will extend the lif improvements to traffic flow through The project was identified in the Cro A follow up report will be presented and Transit. Improvements include o on Crowchild Trail achieved through across the Bow River, widening of th reconfiguration and roadway reconfi-	tal roadway in Calgary's T per day crossing the Bow goods and services in a re as a vital link for the deliv gary and southern Alberta nctional and operational n weaving, added and dro south as Glenmore Tr. SW fe of the existing bridges h the area. wchild Trail Study. See re to the April 19, 2017 SPC development of one new bridge rehabilitation, wid be bridge across Memoria iguration. Modest impro	v River. It plays an liable and efficient very of health and a. The Bow River challenges, with opped lanes, and V to 16 Ave. NW. as well as provide eport TT2016-0599. C on Transportation v core through lane dening of the bridge al Dr., ramp ovements to the
Executive summ Provide a brief a the project and expected to deli only the essentio the business cas most pertinent f clear, concise ar manner.	hary lescription of what it is wer. Capture al elements of e, including facts, in a ad strategic	network, with over 100,000 vehicles important role in the movement of g way to key destinations, and serves a emergency services throughout Calg crossing is contributing to several fur significant bottlenecks resulting from lack of continuous lanes from as far s The improvements will extend the lif improvements to traffic flow throug The project was identified in the Cro A follow up report will be presented and Transit. Improvements include o on Crowchild Trail achieved through across the Bow River, widening of the reconfiguration and roadway reconfi-	per day crossing the Bow goods and services in a re as a vital link for the deliv gary and southern Alberta nctional and operational n weaving, added and dro south as Glenmore Tr. SW fe of the existing bridges h the area. wchild Trail Study. See re to the April 19, 2017 SPC development of one new bridge rehabilitation, wid be bridge across Memoria iguration. Modest impro	v River. It plays an liable and efficient very of health and a. The Bow River challenges, with opped lanes, and V to 16 Ave. NW. as well as provide eport TT2016-0599. C on Transportation v core through lane dening of the bridge al Dr., ramp ovements to the
Expected Key D	eliverables	The project was identified in the Cro A follow up report will be presented and Transit. Improvements include of on Crowchild Trail achieved through across the Bow River, widening of th reconfiguration and roadway reconfiguration and roadway reconfiguration	wchild Trail Study. See re to the April 19, 2017 SPC development of one new bridge rehabilitation, wid he bridge across Memoria iguration. Modest impro	C on Transportation v core through lane dening of the bridge al Dr., ramp ovements to the
			connecting to the Bow R	ivor nathway
		system, improvements to transit bus upgrades to noise attenuation walls be achieved through implementation The existing Crowchild Trail bridges is required regardless of the addition leverages this already programmed	s stops along Crowchild T where gaps or openings n of the short-term plan. require major lifecycle re nal lane. The additional la	r., and some currently exist, can habilitation, which
	onomic	Gross Output: 118,756,271		
Describe		Gross Domestic Product (GDP): 74,124,962		
and/or		Income: 35,903,289		
quantify		Employment: 508		
value and outcomes <b>Social</b> of project		Community outcomes (e.g. safety, health, attractive and well-designed city, inclusion and diversity): Improved traffic flow, improved safety		
	vironmental	Improved facilities for transit, walkir emissions.	ng and cycling all contribu	ute to reduced GHG
<b>Return on Investment</b> Describe short and long term investment returns including expected financial, social and environmental considerations, avoided costs etc. Include quantifiable and		This project leverages Administratio extensive engagement with Calgaria improve traffic flow as well as provid with increased access along and acro feedback received from Calgarians o Calgarians immediate benefit and in	ans throughout the study. de active mode and trans oss the corridor. This pro over the last two years, ar	. The project will sit improvements pject reflects the nd provides
qualitative retu		City wide Ward 7	Project type (MUGS)	U - Upgrade
Project Add	lress, Ward/ chment	City-wide, Ward 7	Fioject type (10003)	0 - Opgrade
-				



Strategic Alignment	Council Priorities	A city that moves, A prosperous city
IC has this information and will complete this section		
	Capital Investment Plan	Transportation and Transit, Innovation, Education and Wellness District
	Calgary Economic Development (CED) 10 year Economic Strategy:	Community
	CED 10 year Economic Strategy: Strategy	2
	CED 10 year Economic Strategy: Action	1

# 2. RESILIENCE

Z. RESILIEINCE		
Project / Program	Coordination with other city projects in the area.	
Assumptions		
Constraints	Regulatory requirements for working over water	
Dependencies:	Final Crowchild Study recommendations to be presented to Council April 2017.	
Risk(s):	<ul> <li>Work across Bow River and regulatory approvals</li> </ul>	
Describe any known risks	<ul> <li>Noise wall relocation adjacent to existing community</li> </ul>	
	<ul> <li>Unforeseen Environmental risks such as contaminated soil</li> </ul>	

### **3. PUBLIC CONSULTATION PLANS**

J. FODLIC CONSOLIATION I	
Provide a brief description of public consultation completed and the dates of consultation.	A six-phase process was developed to deliver a recommended plan for changes and upgrades to Crowchild Tr. A high level description of each phase is provided below. Phase 1: Engagement Process Design (Feb to Mar 2015) Phase 2: Confirm Project Goals (June to Sept 2015) Phase 3: Concept Identification (Oct 2015 to April 2016) Phase 4 Concept Evaluation (May to June 2016) Phase 5: Concept Selection and Recommendation (Aug to Oct 2016) Phase 6: Reporting and Completion (Nov to Dec 2016) A foundational element of the Crowchild Trail Study process is that it tied engagement to the entire planning and design process, whereby discussion with Calgarians drove the course of the study. Phase 1 employed a collaborative process, whereby an engagement design team (EDT) worked with the project team to develop the engagement process for the corridor study. Phases 2 through 6 employed an iterative engagement process, whereby stakeholders and the public were provided opportunities for both gathering ideas, and then refining those ideas into final confirmed output. Additional information is summarized in report TT2017-0329.
Provide a brief description of public consultation outstanding and the dates of the planned consultation.	If approved the next stage of engagement would be focused around construction and minimizing impact to all users and surrounding residents/businesses with dates to be confirmed.



# 4. CAPITAL ESTIMATES

Estimate Class	Varies from Class 2 to Class 5
External Funding (Anticipated /	None anticipated or received
Received)	
List funding source and their	
contribution to the total cost	
estimate	
<b>Operating Impact</b> Describe operating impact of investment if any (i.e. whether new or able to be absorbed within existing operating budget). Where possible provide a precise financial and operating response identifying operating benefits of the investment. Operational efficiencies may also be identified.	This project will have a minimal operating impact as a significant amount of the infrastructure already exists and the project will extend the service life of various components. This project will have a minimal operating impact as a significant amount of the infrastructure already exists and the project will extend the service life of various components. These costs can be absorbed within the current operating budget

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Recomment	-	Glenmore Trail and 68 <sup>th</sup> Street Southeast Intersection Enhancement	
Project Description Executive summary Provide a brief description of the project and what it is expected to deliver. Capture only the essential elements of the business case, including most pertinent facts, in a clear, concise and strategic manner. Expected Key Deliverables		<ul> <li>This project will accelerate intersection enhancements at 68 Street SE and Glenmore Trail. These enhancements would improve circulation within this important industrial growth area in the city's southeast, allow for contiguous industrial development, improving new industrial development opportunities or private and municipal-owned lands, and align with City Council's strategic objective to improve critical goods movement corridors throughout Calgary to keep our economy on the move.</li> <li>This project includes interim intersection improvements at the Glenmore Trail and 68 Street SE intersection, including the construction of a jug-handle to more efficiently accommodate movements from southbound Stoney Trait to westbound Glenmore Trail to southbound 68<sup>th</sup> Street SE, widening of Glenmore Trail and widening of 68 Street north and south of the intersection.</li> <li>The upgrades will provide safer, more efficient traffic movements at the Glenmore intersection.</li> <li>The upgrades would generate City revenue through additional future industrial property taxes sooner than if left unimproved.</li> </ul>	
Benefits Describe and/or quantify value and outcomes of project	Economic	This area is important to both private sector developers and City owned lands as it provides additional supply in an already developing area closely connected to rail and Stoney Trail. The job density in the area is expected to be typical of lighter intensity industrial development, or approximately 20 jobs per hectare on average. If permitted to develop to its full potential, the area could provide capacity for 2,000 long-term jobs. Additional construction jobs would be created to construct logistics warehouses and other light industrial buildings.	
		<ul> <li>The intersection upgrades would help generate City revenue through additional future industrial property taxes sooner than if left unimproved. The tax up-tick potential can range from approximately: <ul> <li>Aggressive forecast: \$1,702,879.96/year</li> <li>Moderate forecast: \$911,876.37/year</li> <li>Conservative forecast: \$335,248.66/year for 3 years = \$1005,745.99</li> </ul> </li> </ul>	



Infrastructure Calgary Implementation Plans – Transportation

	CED 10 year Economic Strategy: Action	4	
	CED 10 year Economic Strategy: Strategy	1	
	(CED) 10 year Economic Strategy:	· · · · · · · · · · · · · · · · · · ·	
	Calgary Economic Development	Entrepreneurial	
	Capital Investment Plan	Growth	
-			
-			riosperous
		A City That Mayor A	Prosperous
Catchment		,	
Address, Ward/	SE industrial area of the city, Ward	Project type (MUGS)	G - Growth
. cturnor	<ul> <li>the intersection.</li> <li>Will complete the current infrastructure requirements within this area as other leading infrastructure (fire, sanitary, storm and water) is already in place.</li> <li>Public investment is expected to trigger private investment for the intersection upgrades. The total construction value is estimated at \$11.4M. The land owners (Walton Developments and Real Estate and Development)</li> </ul>		
10 (D			
Investment		lopments both to the no	orth and south of
		annent to mugate envi	onnentar impacts
Environmental			
Social			
	Freedown and 20		
	Income: 2,564,521		
	Gross Domestic Product (GDP): 5,294	,640	
	Gross Output: 8,482,591		
		acilities.	
			ea and around the
	dovelopments within the Shepard are	a Industrial developme	nt in couthoast
	Environmental Investment hort and long term t returns including inancial, social and ontal ions, avoided costs le quantifiable and p returns. Address, Ward/	Calgary is integral to the continued risd design, and manufacturing centre. Wa grown over time and will continue to Canadian Pacific (CP) intermodal rail f Gross Output: 8,482,591Gross Domestic Product (GDP): 5,294 Income: 2,564,521Income: 2,564,521Employment: 36SocialThere is opportunity to improve the a intersection and open up lands for lig Safety is important as the site has see infrastructure development may migr The City will work with Alberta Enviro on wetlands in the area.Investment hort and long term treturns.• Will support new industrial deve the intersection.Investment hort and long term treturns.• Will support new industrial deve the intersection.Investment hort and long term treturns.• Will support new industrial deve the intersection.Investment hort and long term treturns.• Will support new industrial deve the intersection upgrades. The total The land owners (Walton Develo Services) will be contributing to expected from private sector to Services) will be contributing to expected from private sector toAddress, Ward/ Catchment information and ete this sectionSE industrial area of the city, Ward 9Signment information and ete this sectionCapital Investment Plan 	Gross Domestic Product (GDP): 5,294,640         Income: 2,564,521         Employment: 36         Social       There is opportunity to improve the access capacity and safet intersection and open up lands for light to medium industrial Safety is important as the site has seen numerous collisions. I infrastructure development may migrate to the surrounding i frastructure development may migrate to the surrounding i on wetlands in the area.         Investment       The City will work with Alberta Environment to mitigate envir on wetlands in the area.         Investment       • Will support new industrial developments both to the ne the intersection.         inancial, social and intal equantifiable and irreturns.       • Will complete the current infrastructure requirements work other leading infrastructure (fire, sanitary, storm and was place.         • Public investment is expected to trigger private investme intersection upgrades. The total construction value is estores) will be contributing to project costs. Further im expected from private sector to develop the land.         Address, Ward/       SE industrial area of the city, Ward       Project type (MUGS)         St industrial area of the city, Ward       Project type (MUGS)         Cathment       9       Council Priorities       A City That Moves; A Economy         Information and ete this section       Capital Investment Plan       Growth         Calgary Economic Development       Entrepreneurial       CCED 10 year Economic Strategy:         CED 10 year Economic Strategy:



#### 2. RESILIENCE

Z. REJILIENCE	
Project / Program Assumptions	<ul> <li>Private investment in land development and associated road works would immediately follow intersection improvements and the construction of the jug-handle</li> <li>The proposed transporation upgrades have the potential for throw-away costs once a grade-separated interchange is constructed.</li> <li>Most other major infrastructure (water, stormwater, sanitary) is in place to allow these lands to open up.</li> </ul>
Constraints	Regulatory approvals from Alberta Transportation for work near Stoney Trail and approval from Alberta Environment for work adjacent to wetland. In addition a new legal agreement with developers is required to outline cost sharing responsibility.
Dependencies:	Review and approval of detailed design by Alberta Transportation.
<b>Risk(s):</b> Describe any known risks	<ul> <li>Private investment does not move forward within expected timeframe</li> <li>Alberta Transportation and/or Alberta Environment impose other considerations/criteria that may impact project timelines and costs</li> <li>Competing municipalities may offer more attractive options for industrial developers due to potentially lower taxes, cheaper land, and desirable</li> </ul>
2	<ul><li>transportation connections.</li><li>Need for future interchange sooner may cause some throw away costs</li></ul>

#### **3. PUBLIC CONSULTATION PLANS**

Provide a brief description of public consultation completed and the dates of consultation.	The business case for investment in this area was developed collaboratively among The City of Calgary's Transportation Department, Director's Integrated Growth Committee (DIGC), land owners, The City's Real Estate and Development Services and Walton Development. Regular meetings were held to discuss how options for intersection upgrades, and new development opportunities aligned.
Provide a brief description of public consultation outstanding and the dates of the planned consultation.	Affected land owners have been consulted/informed as part of the CPAG process. Plan for public engagement still to be developed.



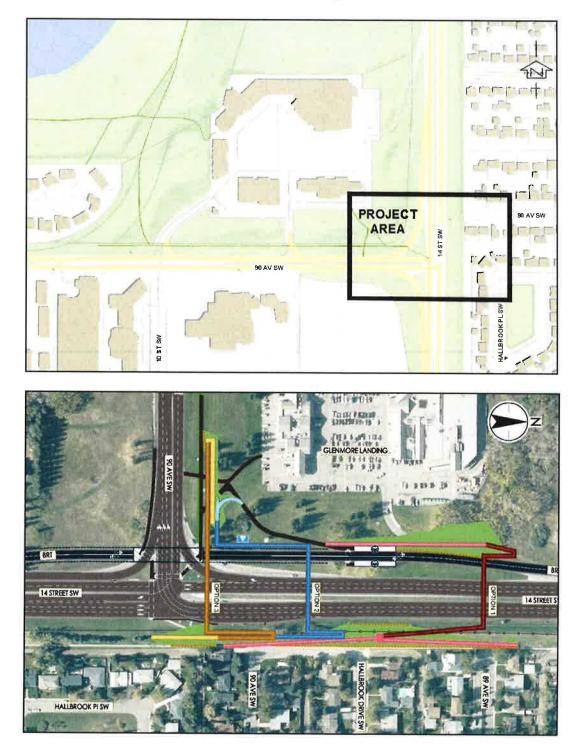
# 4. CAPITAL ESTIMATES

Estimate Class	5
External Funding (Anticipated /	None anticipated or received
Received)	
List funding source and their	
contribution to the total cost	
estimate	
Operating Impact	Additional lane-kms will add sweeping, snow clearing, and boulevard
Describe operating impact of	maintenance of approximately \$56,000 per year
investment if any (i.e. whether	
new or able to be absorbed within	
existing operating budget). Where	
possible provide a precise financial	
and operating response identifying	
operating benefits of the	
investment. Operational	
efficiencies may also be identified.	

297.

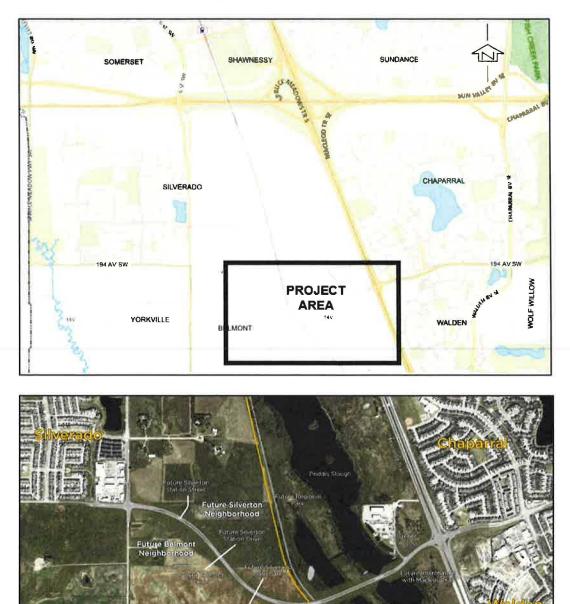


2. 14 Street and 90 Avenue Southwest Pedestrian Bridge



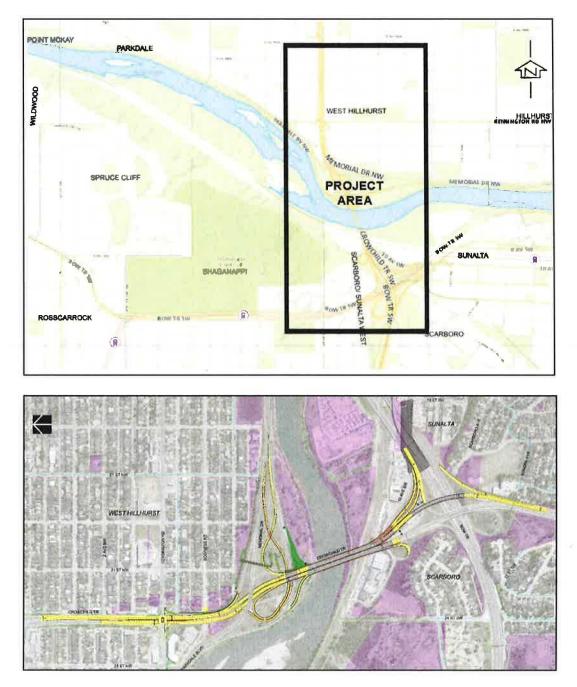


3. 194 Avenue South Slough Crossing and CPR Grade Separation



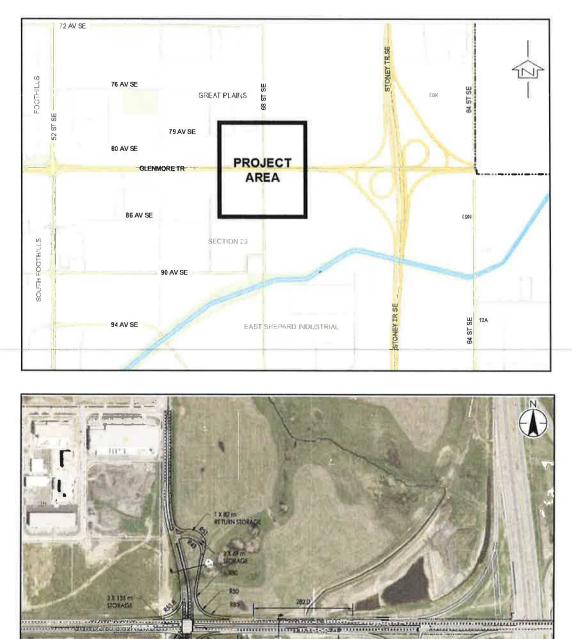


4. Crowchild Trail Short Term Improvements





5. Glenmore Trail and 68 Street Southeast Interchange Enhancement



1 X 380 m

2×115 m

21. 20