

Executive Committee

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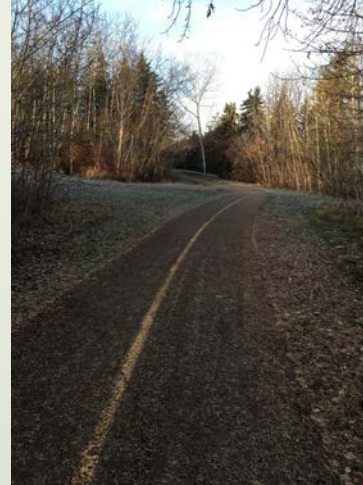
Ravine and River Valley Trail Systems Renewal Options and Future Connectivity

Integrated Infrastructure Services | November 28, 2017

Ravine and River Valley Trail Systems

Improved trails

- . Greater than 1.5 meters wide
- . Upgraded surface treatment (granular, asphalt, concrete)
- . Operated and maintained by the City
- . Approximately 179 km



Unimproved trails

- . Less than 1.5 meters wide
- . Natural surface
- . City does not plan, construct or maintain

Ravine and River Valley Trail Systems

River Valley Trails are unique in nature. Planning for Projects must be looked at on an individual basis. Considerations include:

- Geo-stability and the dynamically changing geography
- Environmental/Wildlife Impacts
- Objectives of users
- Strategic plans

At any given time, a number of emergent erosion and slope stability projects and trail projects are active in the river valley and ravine areas (Attachment #2).

Strategy for Capital Investment

The strategy for capital investment, for trails in the river valley, is supported and informed by an asset management methodology that considers (Attachment # 1):

- Holistic approach to asset management
- Evidence-based decision making, including regular assessments
- Projects are prioritized using a multi-criteria approach

River Valley Trail renewal is expected to require \$1.5 - 3.5 million per year in the 2019-2022 Capital Budget to maintain the present level of service.

Strategies to Mitigate Against Future Trail Degradation

Geotechnical and hydrotechnical design considerations which could result in increased setbacks from areas of historical flooding, erosion and instability.

Strategies will provide better long term performance and reduce:

- Premature Trail Degradation
- Frequency and Duration of Closures
- Maintenance Requirements

All development within the valley lands will continue to involve some level of risk associated with exposure to natural and climatic events.

Expansion of the Trail System

Guidance for development and expansion of the trail network in the river valley is informed by the Ribbon of Green, which was last updated in 1992.

The Ribbon of Green is being expanded to include the northeast and southwest extended areas of the river valley.

Through this work, three planning study domains are considered:

- Preservation
- Conservation
- Extensive use

Concept Plans have been completed for a number of area-specific parks located within the river valley (Attachment # 2).

Next Steps / Future Work

Ongoing refinement of an asset management system for open space infrastructure.

A capital funding request will be developed and brought forward for the 2019-2022 Capital Budget Cycle.

Updated strategic planning to guide the approach to development and expansion of the North Saskatchewan river valley and ravine system.

Thank you.

Questions?

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