



The Corporation of the Town of Tecumseh

Public Works & Environmental Services

To: Mayor and Members of Council

From: Phil Bartnik, Director Public Works & Environmental Services

Date to Council: September 8, 2021

Report Number: PWES- 2021-38

Subject: Investing in Canada Infrastructure Program
Green Stream Stage II, 2021 Intake
Watermain Replacement Project: Centennial Drive & Woodridge Drive

Recommendations

It is recommended:

That Administration **be authorized** to submit an application to the federal government for funding under the Investing in Canada Infrastructure Program (ICIP): Green Stream Stage II, 2021 Intake for a future commitment to the Watermain Replacement Project on the full length of Centennial Drive, a section of Woodridge Drive (from Dillon Drive to St. Thomas Street) and interconnections with Little River Boulevard and St. Thomas Street;

And that Administration **be authorized** to complete any business case(s), application(s) and/or to provide all information/documentation as required in order to constitute an application under ICIP: Green Stream Stage II, 2021 Intake;

And further that the Chief Financial Officer **be authorized** to sign any required documents necessary to complete the application and the subsequent documentation to ICIP: Green Stream Stage II, 2021 Intake;

And furthermore that the Mayor and Clerk **be authorized** to sign any documents/agreements (if required) for the application submissions and documentation to ICIP: Green Stream Stage II, 2021 Intake, in a form satisfactory to the Town's Solicitor, financial content satisfactory to the Town's Chief Financial Officer and technical content to the Town's Engineer.

Background

The Investing in Canada Infrastructure Program (ICIP) is a federal-provincial infrastructure program designed to create long-term economic growth, build inclusive, sustainable and resilient communities and support a low-carbon economy.

The Green Stream includes up to \$7.12 billion in combined federal, provincial and other partner funding over 10 years for projects across three federal sub-streams that advance outcomes associated with climate change mitigation, environmental quality and disaster mitigation.

This intake will provide up to \$240 million in combined federal and provincial funding and will **prioritize drinking water projects** that address critical health and safety issues associated with water infrastructure under the Environmental Quality sub-stream. Out of the \$240 million funding envelope, there is approximately \$24 million set aside for First Nation applicants as a designated funding carve-out. This ensures a protected minimum funding amount for First Nation communities to balance community needs and priorities.

Projects under this intake are subject to a **\$5 million** funding cap for total eligible costs, with **funding allocations of 40% Federal, 33.33% Provincial and 26.67% Municipal**.

The deadline for the application submission is **September 9, 2021**.

Subject to obtaining federal approvals, ICIP projects **must start work** (which includes design/engineering) **by September 30, 2022** at the latest and **must be completed by October 31, 2026**.

Further details of the ICIP Green Stream Stage II, 2021 Intake are contained on their [website](#).

Comments

In review of possible watermain projects that meet the eligibility criteria and would maximize the grant amount available, Administration determined that the watermain replacement projects on the full length of Centennial Drive, a section of Woodridge Drive (from Dillon Drive to St. Thomas Street) and interconnections with Little River Boulevard and St. Thomas Street, were the ideal candidates for the funding application. A map of the watermain location is provided in Attachment 1.

The existing watermain located on the full length of Centennial Drive, a section of Woodridge Drive (from Dillon Drive to St. Thomas Street) and interconnections with Little River Boulevard and St. Thomas Street are comprised of ductile iron watermain varying in size between 150mm – 300mm diameters. These watermain are the last of the ductile iron watermain to be upgraded within this area. All surrounding watermain has been previously replaced with Polyvinyl Chloride (PVC) material.

The ductile iron watermain at these locations have been failing due to the age and material of the pipe. Since 2010, there have been 19 watermain breaks and 21 repairs on water services, valves and fire hydrants. To help put this into perspective, the proposed Centennial and Woodridge Watermain Replacement project is approximately **0.8%** of the Town's entire watermain system (1,750m project length / 220km total water system), but has accounted for **9%** of the total watermain breaks over the last 11-year period (19 breaks / 213 breaks Town wide).

Watermain breaks create potentially unsafe drinking water both during the break and for a short time after repairs fix the break. When a ductile iron watermain breaks, debris from the broken pipes and surrounding area may flow into the pipes and water.

Within the Town's Asset Management Plan 2018 Update (AMP), the straight line, age-based method was used to assign asset condition for watermain infrastructure. The rationale behind this is that ductile iron and cast iron pipes, which are the oldest within Tecumseh, have the highest frequency of watermain breaks. The ductile iron watermain asset in this area (as described above) is rated in 'poor condition' and was included in the Town's long range plans for replacement.

Also compounding the need to replace the existing ductile iron watermain is the current location of the existing watermain: the existing watermain is buried beneath hydro, gas and fibre optic plant. Watermain repairs are therefore long in duration given the conflicts with other utilities. Hydro service must be de-energized along the Centennial and Woodridge corridor when repairs to a watermain break are undertaken to ensure a safe work area.

Consultations

Financial Services
Corporate Services & Clerk
Dillon Consulting Limited

Financial Implications

The following financial implications would arise if the Town's application to the ICIP: Green Stream Stage II, 2021 Intake is approved:

Total project costs:	\$3,500,000
Federal funding (40%):	\$1,400,000
Provincial funding (33.33%):	\$1,166,550
Amount to be funded by the Town (26.67%):	\$933,450

If successful, this project would be incorporated as part of the annual Public Works & Environmental Services Capital Works Plan and funded through the Watermain Reserve Fund. It is proposed that the detailed design would commence in 2022 (in accordance with the funding program criteria) and that construction wouldn't commence until 2024.

Link to Strategic Priorities

Applicable	2019-22 Strategic Priorities
<input checked="" type="checkbox"/>	Make the Town of Tecumseh an even better place to live, work and invest through a shared vision for our residents and newcomers.
<input checked="" type="checkbox"/>	Ensure that Tecumseh's current and future growth is built upon the principles of sustainability and strategic decision-making.
<input checked="" type="checkbox"/>	Integrate the principles of health and wellness into all of Tecumseh's plans and priorities.
<input checked="" type="checkbox"/>	Steward the Town's "continuous improvement" approach to municipal service delivery to residents and businesses.
<input type="checkbox"/>	Demonstrate the Town's leadership role in the community by promoting good governance and community engagement, by bringing together organizations serving the Town and the region to pursue common goals.

Communications

Not applicable ☒

Website ☐

Social Media ☐

News Release ☐

Local Newspaper ☐

This report has been reviewed by Senior Administration as indicated below and recommended for submission by the Chief Administrative Officer.

Prepared by:

Cheryl Curran, BES
Project Technician

Reviewed by:

Brad Dupuis, C. Tech.
Manager Water & Wastewater Services, O.R.O.

Reviewed by:

Laura Moy, Dipl. M.M., CMMIII HR Professional
Director Corporate Services & Clerk

Reviewed by:

Tom Kitsos, CPA, CMA, BComm
Director Financial Services & Chief Financial Officer

Reviewed by:

Phil Bartnik, P.Eng.
Director Public Works & Environmental Services

Recommended by:

Margaret Misek-Evans, MCIP, RPP
Chief Administrative Officer

Attachment Number	Attachment Name
1	Location Map of the Proposed Watermain Replacement Project