

Infrastructure, Transportation and Safety Sub-Committee
IDS Update Regarding Capital Projects, Engineering and Operations
January 2023

Capital Projects - 2022

Studies

- Transportation Master Plan Update
 - RFP for consultant services awarded to IBI Group, new Transportation Master Plan will be updated and incorporate the Bike and Pedestrian Master Plan
 - Round 1 Engagement summary report and Phase 1 Needs and Opportunities reports available on the Engage website
 - Public Open House #2 concluded end of November
 - Phase 2 Alternative Solutions report and final Engagement summary report to be available mid February
 - Draft Final report underway.
- Storm Model and Master Plan Update
 - RFP for consultant services being prepared
 - Update to existing storm model and consolidation of all existing storm master plans and EA reports
 - Climate change adaptation to be included
- Sanitary Master Plan Update
 - RFP for consultant services awarded to Civica, work ongoing
 - New sanitary model to be used to update existing sanitary master plan and incorporate all lands annexed since 2004
 - Flow monitoring to be in place early spring

Reconstruction Projects

- Online Updates
 - Engage Stratford website being used to keep up-to date progress of ongoing projects and reconstruction jobs on the City's website.
- Queen Street Storm Sewer
 - Tender awarded to Birnam Excavating Ltd.
 - Construction complete, final topcoat paving scheduled for early spring
- Huron Street Reconstruction, Phase 1
 - Connecting Link funded project, Design and Contract Admin awarded to IBI Group
 - New watermain, sanitary sewer, storm sewer, roadway
 - Tender awarded to Steve Smith Construction
 - Topcoat paving, boulevard and sidewalk restoration scheduled for spring, traffic control installation ongoing

- Sidewalk projects 2022
 - Walnut Street, Martin Street, Cambria Street from John to St. Vincent, John Street from north of Cambria to Centre
 - Tender awarded to Nicholson Concrete, work to commence in spring
- Argyle Street and McKenzie Street Reconstruction 2022
 - Full reconstruction with new watermains, sanitary and storm sewers
 - Tender awarded to Elgin Construction
 - Topcoat paving and minor restoration in 2023

Other

- Bridge and Culvert Improvements
 - RFP being prepared for a consultant to design the replacement of the concrete retaining walls near the CN overpass on TJ Dolan Drive
 - RFP for Consultant to design the deck rehabilitation for Dunn's Bridge awarded to B.M. Ross, work underway
- Sewer Relining
 - Sanitary and Storm sewer relining to reduce infiltration and rehabilitate deficient sewers
 - Tender awarded to Clearwater Structures Inc.
 - All work complete. Approximately 3600m of Sanitary and Storm sewers relined
- Watermain Relining
 - Willow Street from Pleasant Drive to Devon Street
 - Tender awarded to Fer-Pal Construction Ltd
 - Construction complete, approximately 800m of watermain rehabilitated
- Infrastructure Canada Active Transportation Fund Application
 - Applications submitted for three projects – Erie Street Multi-Use Trail Rehabilitation and Extension, McCarthy Road Bike Lane and Sidewalk Installation, and Douro Street and CH Meier Boulevard Multi-Use Trail
 - Notification received January 11, 2023 that all projects were unsuccessful in obtaining funding. Projects will be reconsidered for inclusion in future capital budgets
- Pavement Condition Assessment 2022
 - 2022 assessment completed by GM BluePlan, report posted to City website.
 - The 2022 network average PQI of 58.6 remains unchanged from the 2019 pavement assessment. In 2022, a greater percentage of the road network is now in the very good condition category (PQI>80) compared to 2019. This is the result of road maintenance, rehabilitation and capital works.
 - However, a greater percentage of the road network now falls in the very poor condition category (PQI<40) compared to 2019. The backlog of major rehabilitation / reconstruction work is increasing and greater budgetary requirements will be needed to address this backlog over time.

Capital Projects – 2023 – subject to budget approval

Reconstruction Projects

- **Albert Street Reconstruction – Waterloo to Front Street**
 - Full reconstruction with new watermain, sanitary and storm sewers
 - Design ongoing including implementation of 'bicycle boulevard' treatments in accordance with new Transportation Master Plan recommendations
 - Open House to be scheduled February/March
 - Tender scheduled for April
- **Asphalt Resurfacing 2023**
 - Ontario Street from Queen to Waterloo and Erie Street from south of Ontario to West Gore – subject to receiving Connecting Link funding
 - Resurfacing of various streets – candidates include sections of John Street, Devon Street and McCarthy Road East
 - Design ongoing, tender scheduled for May
- **Ontario Street Watermain Replacement – Parkview to Queen**
 - Replacement of undersized watermain
 - Design ongoing
 - Tender scheduled for March/April

Other

- **Bridge and Culvert Improvements**
 - RFP for Consultant to design the deck rehabilitation for Dunn's Bridge awarded to B.M. Ross
 - Design options being finalized, open house scheduled for January 25 with tendering scheduled for March/April
- **Concrete and Asphalt Restoration**
 - New multi-year tender to replace damaged concrete sidewalk, curbs and asphalt road cuts, including restoration works.
 - Tender scheduled for February
- **Watermain Relining**
 - Erie Street from Cambria to Monteith
 - Tender scheduled for March/April
- **Portia Watermain Extension**
 - Dead end watermain providing poor water quality to residents, to be extended to Devon Street for proper looping
 - Tender awarded to Birnam Excavating Ltd.
 - Work scheduled to commence in the spring

Divisional Updates

Engineering Division Works

- Review of development engineering plans and reports for various proposed subdivisions
- Review of formal Consultations, Site plan applications, zone change applications, and various other planning matters
- Inspection services for subdivision construction ongoing
- Compiling data for asset management project
- Survey and design ongoing for 2023 AND future projects

Operations Update: Water

- Watermain breaks in 2022 = 32, so far in 2023 = 1
- Chestnut Well went back online on January 19th. The chlorinator has been fixed after waiting on parts for about 4 months. While it was offline, staff completed the 5 year draining and cleaning of the Chestnut reservoir and clearwell.
- Our e.Ris server is currently down and expected to be repaired by February 2nd. IT is facilitating this repair with the manufacturer. For the time being, staff are using paper logbooks and forms to complete routine work until the server is fixed.

Operations Update: Wastewater

- We have a new temporary wastewater operator starting on January 23rd.
- Staff have been prepping and inspecting the manholes that will be used for a flow monitoring program that will be conducted by Civica, the consultant doing the Sanitary Master Plan.
- The check valves and isolation valves at pumps 3&4 have been replaced at the Vivian Pumping Station

Operations Update: Water Pollution Control Plant

- Filter Underdrain #4 that failed in October was rebuilt and put back in service in late January.
- Filter Underdrain #3 failed last week and it will be repaired along with Filter #2. After these are replaced, all 4 filters will be new.
- The new UV system has been delivered and all prep work in the tertiary building is completed. OCWA is waiting on the MECF approval to bypass the UV channel for 3-4 weeks while the installation of the new UV system is complete. OCWA staff confirmed they do not expect any odour or operational issues while the UV is being bypassed.

Operations Update: Public Works

Significant weather events kept the department busy in the early part of January.

- We do continue to see an increase in absenteeism into January. Several positive COVID cases and seasonal cold/flu have impacted the availability of staff
- A significant weather event over the holiday season kept the department very busy over the break. The event lasted several days with multiple road closures. We declared a "significant weather event" as per the Maintenance Standards beginning on December 24th and ending on December 29th. All City equipment continued to plow and treat roads, sidewalks, and parking lots during the event with staff putting in a significant amount of hours to ensure safe travels in the City
- RFQ's for the department in January include, catch basin cleaning, brush grinding, concrete crushing, bin rentals at the Landfill site, Hazardous Waste event assistance, excavators and trucks for short term City projects, in preparation for spring work
- The department continues to work on our Blue Box Transition with several governing bodies

Climate Change Internal Working Group

- **Green Recognition Program** underway, applications can be submitted on the City's website, climate change webpage.
- Have signed up the City as a Municipal Partner for the Mobilizing Municipalities organized by Earth Day Canada (organization), joining a number of municipalities Canada-wide to accelerate efforts toward climate change adaptation. As a part of the Tree Planting Relay, Staff are planning a tree planting event in celebration of **Earth Day** in April 2023. Report to ITS subcommittee for information and approval.
- **Corporate Emissions Plan** – is in development. It identified asset classes including city owned facilities, fleet and equipment, water + wastewater and outdoor lighting. Considered historical emissions (scope 1 and 2) as per Canada National Inventory Report (NIT) 2022, submitted to the UNFCCC*. Baseline established for the Plan (to align with community emissions baseline), and identify near term and long-term emissions reduction measures for all asset classes, and explore opportunities to implement decarbonization initiatives (in a fiscally responsible manner). Data gathered from Festival Hydro, Union Gas and fuel suppliers. Staff exploring establishing key performance indicators to monitor/manage corporate GHG emissions on an annual basis.
- **Community Emissions Plan** – focusing on actions identified in the County-wide GHG Reduction Plan (2021) and exploring opportunities for Stratford to meet its emissions targets by 2030, and beyond.
- **Public communication** regarding climate change initiative – City Website (climate change page) updated with information on rebates and incentives

(federal) for residents to consider towards their home improvements and retrofits (e.g., heat pumps, energy efficiency measures).

- Internal **policy updates** are ongoing (sustainable procurement guidelines) and applying a climate lens to upcoming Plan updates (Official Plan, Transportation Master Plan) to target long-term community emissions as well.
- Meetings are held every three weeks with **Climate Change Working Group** (capacity building and knowledge sharing across the board). Members attend webinars, conferences and workshops such as Mayors' Megawatt Challenge. The intention is to learn from other municipalities (i.e., strategies/best practices) while also demonstrating leadership in energy efficiency, greenhouse gas reduction, cost savings potential.
- Ongoing **stakeholder engagement** with community led groups (Climate Momentum, ReLeaf, Perth County Sustainability Hub), organizations (SDSS) etc. Anticipate further engagement seeking feedback once a 'Community Emissions Plan' is in development.
- Exploring establishment of internal sub-groups to advance carbon reduction strategies and seek funding opportunities.
- Based on Council priorities and direction, a **short, medium and long-term workplan** is underway, will be brought to ITS for consideration in Spring 2023.

*UNFCCC- United Nations Framework Convention on Climate Change

Attainable Housing – Special Project

- investStratford lead project is ongoing. Implementation of Key Action Items from the "A Road Map for Attainable Market Housing Development" as received and approved by Council in June, 2021
- Midterm focus (September-December, 2022)
 - Draft policy direction, incentive programs, return on investment
 - Public and stakeholder consultations, online and in person
 - Additional time spend reviewing changes to the scope of the project with Bill 23 impacts in mind
- Long term objectives (December 2022-March, 2023) ongoing
 - Present Toolkit, possible Community Improvement Plan and financial incentive package to Council
 - Ongoing public and stakeholder consultations, online and in person
 - Support Council and City Staff in the development of a pilot project (Vivian Line)
 - Interim report provided to Council on January 23rd
- Internal working group members: Chief Administrative Officer, Director of Social Services, Manager of Housing, Director of Finance and Corporate Services, Director of Infrastructure and Development Services, CEO of investStratford, Managing Director of investStratford