

Public Works Department Quarterly Report

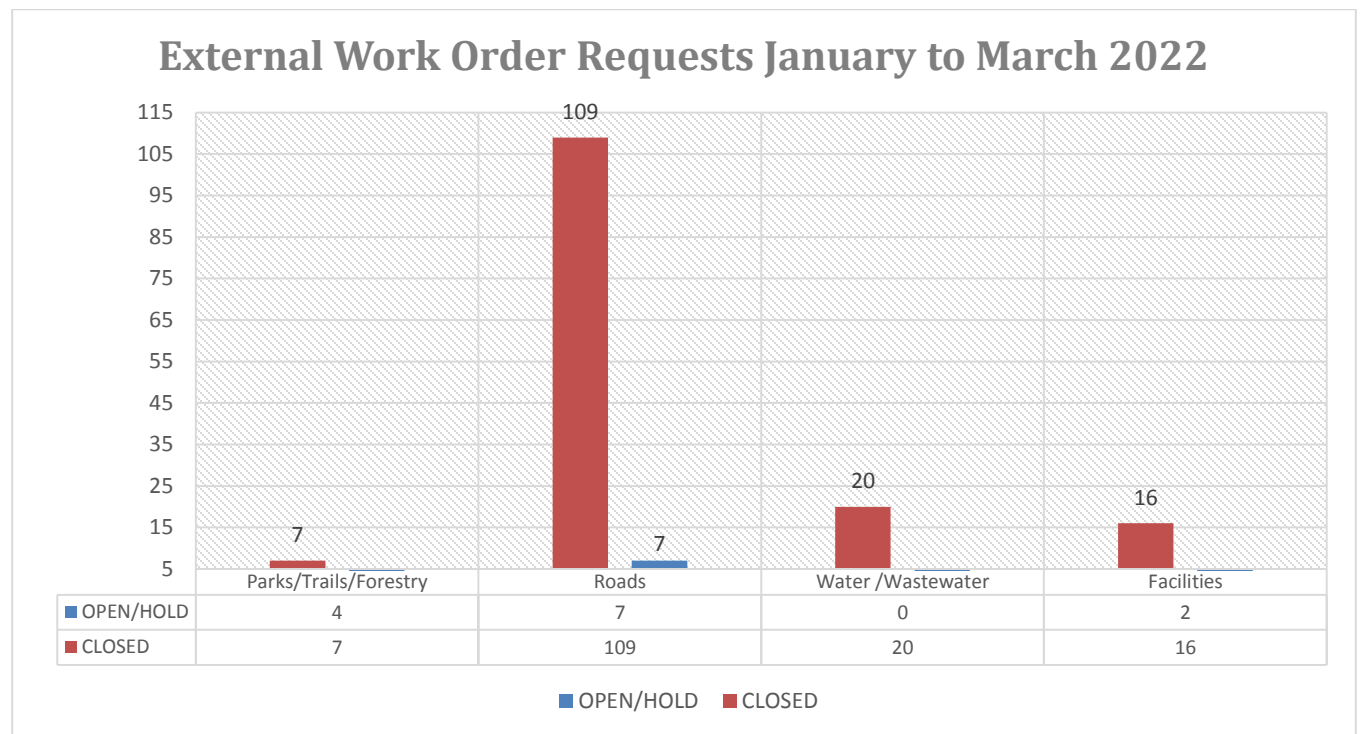
Tuesday, April 19, 2022

Reporting Period: Public Works Department Quarterly Report for the period: January 2022 – March 2022

Recommendation:

BE IT RESOLVED THAT the Q1/2022 Public Works Department Report be received for information.

Department Overview and Statistics:



The above overview only covers work orders through the current PSR system. The above statistics do not cover work order requests generated through email or phone correspondence. The Town's Public Service Request and work order system is currently under review. Staff are currently reviewing other systems and platforms on the market to enhance and bring efficiencies to the public service request and work order process.

OPERATIONS

ROADS

Roads Staff continue to perform maintenance activities identified during routine road patrols as per the Ontario Regulation 239/02; Minimum Maintenance Standards (MMS) for Municipal Highways, passed pursuant to the *Municipal Act, 2001*.

April 1, 2022 marks the end of the 2021-2022 Winter Season. Roads staff have begun to decommission the winter fleet in order to transition into spring operations. Although staff have not received the contracted service invoices for March, it is believed the Winter Operations budget has been negatively impacted due to winter storms in January and February. Staff will report on 2022 winter operations once all invoicing has been received and operations data can be compiled.

Through the end of February and March, roads staff have concentrated their efforts on patching potholes on municipals roads. During this period, 98 tonnes of QPR cold patch has been utilized to patch potholes throughout the Town's transportation system.

Warning signage improvements and repairs are continuing. An additional dynamic speed display has been installed on Port Robinson Road in the East bound lane in front of Glynn A Green School. A second speed display unit will be installed shortly on Welland Road in the East bound lane between Stains Street and Deborah Street.

BEAUTIFICATION

Throughout the first quarter both staff and the tree contractor began work completing tree maintenance identified in the 2021 tree inspections. The majority of this work took place on Maple Street, College Street and Emmett Street. A large silver maple tree has recently been removed from Emmett Street due to its condition. A large silver maple tree on College Street has been recently identified as a hazard through an ISA certified tree inspection and is scheduled for removal in April.

The Spongy (LDD) Moth spray program is moving forward. The Town has received MECP approval to use alternative notification methods for the Aerial Spray Program using *Bacillus thuringiensis* subspecies *kurstaki* (Btk) (Foray 48B Biological Insecticide Aqueous Suspension) to control Spongy (LDD) Moth in certain locations within the Town of Pelham during the time period of May 10, 2022 to June 15, 2022 subject to weather conditions. This approval is a major component of the program and requires a combination of social media and public notifications, property owner mail outs, and other marketing efforts.

During the winter season, when not assisting in winter operations, staff perform equipment maintenance such as painting trailers and small engine servicing. Staff also continue to work on collecting the tree inventory, and other parks assets. Design of planting beds and ordering planting material also occurs in this quarter.

WATER/WASTEWATER

Water/wastewater maintenance activities continue throughout the year. Operators perform system pressure monitoring, flush water mains to ensure adequate chlorine residual, and respond to customer complaints or concerns.

Staff responded to 2 water service leaks and 3 watermain breaks during this quarter. The watermain breaks were located on Lorimer Street, Pinecrest Court and Strathcona Drive. All the breaks occurred on 6" diameter cast iron watermain which represent the highest incidence of breaks in the system.

Water operators worked with the contractor to commission the new water main into Marlene Stewart Steit Park. This water main was required to supply the new splash pad and improve service to the existing pool and address water quality issues in the area.

Staff responded to a blocked sewer main in the area of South/West Fonhill. Staff were able to pump sewage around the blocked section of main before major flooding of basements occurred. The blockage was attributed to un-flushable household materials such as wet wipes and grease. Notices will be handed out in the sewer service area, as well as on social media, reminding residents of what can and cannot be flushed down the sewer.

ENGINEERING

The following is a summary of the activities that have occurred in the Engineering Department between January 2022 and March 2022:

SULPHUR SPRINGS REHABILITATION – The Sulphur Springs Road Reconstruction project was awarded to Duffin Contracting under a design/build contract. To date the contractor has completed Site 1 (with the exception of asphalt and the landscaping to be completed in the spring) and re-opening the roadway. Site 2 will commence in July of 2022 once the contractor is permitted to work within the watercourse.

PELHAM STREET SOUTH (Phase 1 and Phase 2) – The Town has received Federal and Provincial funding towards completing a total reconstruction of Pelham Street to the Town Boundary south of Welland Road. The works include new storm sewers, updates to existing water mains, as well as new curb, asphalt, the construction of on-road bicycle lanes and new sidewalks. Phase 1 was completed in 2021. Phase 2 of the project was substantially completed in December of 2021 with the final restoration and surface works currently being undertaken. The contract for Phase 1 and Phase 2 was awarded to Rankin Construction Inc. The contractor has returned to the site to complete final surface works and restoration with an expected completion date of May 2022.

PELHAM STREET PHASE 3 – JOHN STREET TO SOUTH SPRUCESIDE INTERSECTION – The detailed design phase of the Phase 3 of the project is complete and is currently under review by senior management from Associated Engineering. The project includes a full urbanization and reconstruction of Pelham Street continuing on from John Street (Phase 2) to the south Spruceside intersection. The project is approximately 900 m in length and will include

a fully reconstructed road cross section with new sidewalks on both sides, on road cycling facilities, new watermain, new storm sewers and new roadway lighting. It is anticipated that the project will be tendered in May of 2022 with the project being substantially complete by December 2022. Completion of surface works and restoration is anticipated to be completed in the spring of 2023 similar to Phase 2.

ROAD BASE AND PATCHING REPAIR PROGRAM (2022) – Staff are currently in the process of determining the locations for the asphalt base repairs and patching program. The program will most likely focus on rural roads with emphasis placed on road segments located on the cycling race route for the 2022 Canada Summer Games. It is anticipated that this tender will be issued in May of 2022.



Tice Road: Road Base Failure



Tice Road Failing Road Shoulders

ROAD REHABILITATION AND RESURFACING PROGRAM (2022) – Engineering Staff are currently working with Public Works Operations Staff to develop a list of candidates for the 2022 Road Rehabilitation and Resurfacing program. The candidates are being selected based on the information contained in the 2019 Pavement Condition study and based on the road patrols completed by Operations Staff. The program will most likely focus on rural roads with emphasis placed on road segments located on the cycling race route for the

2022 Canada Summer Games. It is anticipated that the tender for this project will be issued in May or June of 2022.



Metler Road: Road Shoulder Failing



Road Base Failure and pavement deterioration on Roland Road

CONCRETE REPAIR AND REPLACEMENT PROGRAM (2022) – Staff are currently in the process of determining the locations for the concrete repair and replacement program. This program focuses on the repair and replacement of damaged or failed sidewalk panels, and curbs within the Town right-of-way. It also encompasses facilities' concrete repair and replacement needs. The majority of the work completed as part of this annual project is concrete curb and sidewalk repairs so that the Town is in compliance with the Minimum Maintenance Standards (MMS). It is anticipated that this contract will be tendered in the spring of 2022.



Missing curb at Millbridge



Tripping hazard at HWY 20



Sinking panels at Lawrence Lane

CONSTRUCTION OF EFFINGHAM ST: HIGHWAY 20 TO TICE ROAD – The detailed engineering design was completed by Kerry T. Howe Engineering in February 2022. This project has gone out to tender as of April 6th, 2022. This project is scheduled to commence on April 28th, 2022 and be substantially completed by July 1st, 2022 to accommodate the upcoming Canada Summer Games.

BRIDGE REPLACEMENT PROGRAM – BALFOUR BRIDGE (STRUCTURE NO. 14) – The Balfour Road Bridge was identified in the 2020 Biannual Bridge and Major Culvert inspections as a structure that required replacement. The Bridge Condition Index (BCI) for Balfour Street (Structure No. 14) is 49 with an overall bridge condition rating of "poor". This project

has been tendered and awarded to CRL Campbell. The design consultant for this project is ELLIS Engineering. The anticipated start of this project is July 4th, 2022 and completion is anticipated for September 2nd, 2022.

ROADSIDE DITCHING PROGRAM (2022) – Staff are currently working with Operations staff to determine locations for the 2022 Roadside Ditching program. Again it will include approximately 14km of roadside ditches. It is expected that the tender will be released in late spring of 2022.

STATION STREET STORM POND REHABILITATION – This project has been awarded to Duffin Contracting Inc. The commencement of the project has been delayed as a result of receiving permits from the NPCA and permission to enter and gain access over a hydro easement that runs between Station Street and Cataract Road directly adjacent to the storm water pond outlet. The contractor is continuing to work with the design consultant, Town Staff and NPCA to get the approvals necessary to gain access to the site and complete the work. Based on failed attempts to gain access to the site via the Hydro One corridor the Town has now directed the contractor to gain access to the site through the existing storm sewer easement and storm water management facility. As a result there will need to be limited tree removal and restoration works on the existing pond. All of this work for the access will be completed on Town property. A portion of the property is on NPCA regulated lands so permits and approvals through the environmental agency will be required. It is anticipated that the construction will commence in late spring of 2022 and will be completed in the fall of 2022 pending approvals and permits.

FOSS ROAD SANITARY SEWER DESIGN UPGRADES – This project is currently at 90% design stage with GHD. However, there have been some challenges with regards to the CPR crossing, which is delaying the finalization of design. Coordination with relevant agencies is being conducted in order to bring this project to completion and be construction ready. Staff are working diligently with the consultant to determine the most cost effective method of installing the sanitary sewer under the CPR right-of-way. It is anticipated that the project will be included in the 2023 Capital Budget request.

CHURCH STREET SANITARY SEWER DESIGN UPGRADES – The detailed engineering design was completed by Associated Engineering early in 2022. Permits, comments and approvals have been obtained by CP Rail and the NPCA. This project will be going out to tender in April/May of 2022. It is anticipated that construction will commence by June 2022 and be substantially completed by the end of the calendar year.

PARK LANE WATERMAIN INSTALLATION PROJECT – The Park Lane Watermain Installation Project is a project that involves the installation of a new 6 inch watermain from Hwy 20 to the bottom of Marlene Stewart Street Park in order to service the new splash pad and the existing pool facility. This project also included the installation of a sanitary sewer connection for the proposed splash pad. This project was completed in late February 2022. Based on unforeseen circumstances regarding locations of underground utilities and obstructions, additional work required to provide new sanitary sewer connections and service connections to the Park Lane Storage Facility and existing Pool Facility, as well as, issues surrounding the disposal of excess soils in accordance with new proposed

legislation, the costs for the project have exceeded the original estimated tender value and budget.

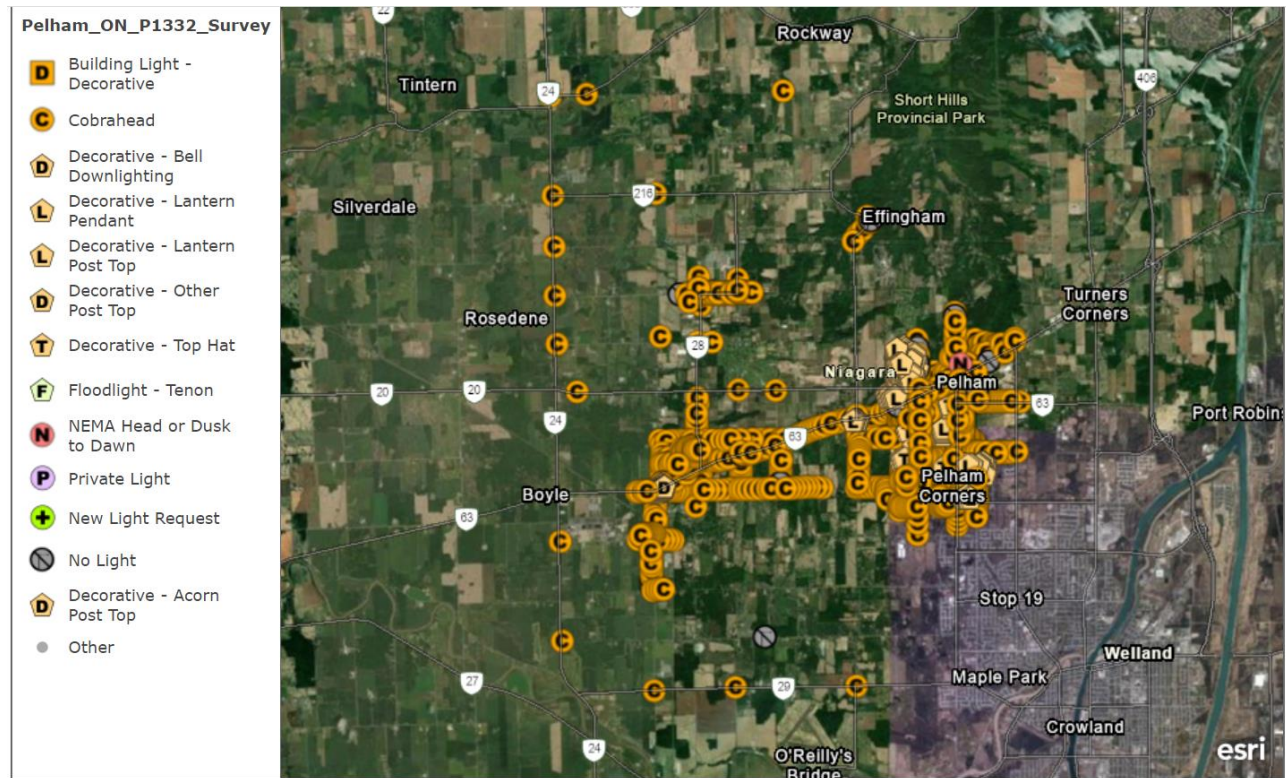


Installation of new 6 inch watermain at MSSP.

PELHAM ARCHES PROJECT - Engineering staff are working closely with representatives from the Rotary Club as well as the Engineering of record (James Federico, P. Eng.) on the replacement project for the arches. At this point in time staff have reviewed initial drawings and provided comment. Staff are awaiting a final submission of the drawings for approval as well as the Building Permit application.

QUAKER ROAD RECONSTRUCTION DETAILED DESIGN - Engineering staff are working closely with representatives from the Region and the design consultant (MTE) to finalize the design of Quaker Road from Pelham Street to Line Ave. The project will include the full urbanization of the roadway with concrete sidewalks on both sides of the street, on road cycling facilities, new watermain and services, new storm sewer and new sanitary sewer. The design will be completed in the summer of 2022 with construction anticipated in 2023 pending budget approval. The project will be tendered and administered through Niagara Region.

LED STREETLIGHT CONVERSION PROJECT – Staff had the kickoff meeting on March 10th, with Realterm Energy Inc. for the LED Streetlight conversion program. Realterm has completed the GIS streetlight audit and it is currently being reviewed by Staff. It is anticipated that the Investment Grade Audit (IGA) will be sent to the Town by June 23rd, for confirmation. The installation completion date for Phase 1 is November 2nd, 2022.



Streetlight Audit Map

TOWN OF PELHAM EVENTS BUILDING ADDITION PROJECT - The building addition project consists of adding a vestibule, new corridor, storage room, community room, janitor's closet, universal washroom, and women and men's washrooms. Staff had the kickoff meeting on March 16th, with John Grguric from Grguric Architects Incorporated. This project is currently at the Prequalification stage which was posted on March 31st. The tendering phase of this project will be undertaken in May and awarded in June with construction commencing on September 6th, 2022.

In addition to the current capital projects, Engineering staff continue to thoroughly review all Planning and Committee of Adjustment applications. Reviews entail a site visit and detailed analysis of drawings and reports, to ensure Town standards are adhered to. For more complex applications, this process sometimes involves several re-submissions and repeated reviews by staff. Engineering staff also continue to manage requests for assumption of subdivisions, and for reduction of securities at various stages of the development process. In addition, Engineering Staff complete reviews on lot grading plans for building permits received through the Planning Department.

Further, Engineering Staff continue to support the Pelham Active Transportation Committee (PATC), generating reports for other departments to be sent back to the federal government, and coordinating with other Town departments for assistance.

Constituent Concerns and Issues Arising:

Although the COVID 19 restrictions have been lifted staff continue to exercise precaution and wear appropriate PPE measures when working in sensitive environments and when working in close proximity to others.

Staff at Tice have returned back to normal working hours from 7 a.m. to 3:30 p.m. Physical distancing and increased cleaning of touchpoints and workplaces continue.

Employee Updates:

The department has had four (3) full time employees join the team in the first quarter of this year.

- 1) **Haneen Al Jbawi – Engineering Technologist** – Haneen has completed a Bachelor of Civil Engineering Degree at Ryerson University and brings experience from the construction industry.
- 2) **Gimuel (Gim) Ledesma – Engineering Technologist** – Gim graduated from Mohawk College with a diploma in Architectural Technology and is currently pursuing a Bachelor of Technology in Civil Engineering Infrastructure Degree at McMaster University (part-time). Gim has experience working in the municipal setting and most recently was employed as a project coordinator in the construction field.
- 3) **Sonia Simoes – Public Works Administrative Assistant** – Sonia is a certified Facility Management Professional with over eleven years of administrative experience in a municipal setting. Sonia most recently worked for the City of Hamilton as a Specification Clerk.

Grants, Concerns, RFPs, Agreements:

Public Works staff have submitted a grant on behalf of the Town to improve Active Transportation within the Town. The grant focused on two main projects:

- 1) Hard Surfacing of the Steve Bauer Trail from Port Robinson Road to the north Pelham/Thorold town boundary on the old spur line.
- 2) Construction of on-road cycling facilities on Canboro Road from Oakridge Blvd to Effingham Street.

Meetings:

Public Works Officials Meetings (Virtual Attendance)

Niagara Peninsula Contract Document Specification Meetings

Municipal Energy Symposium – Association of Municipalities of Ontario