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**TO: MAYOR J. LEHMAN, MEMBERS OF COUNCIL**

**FROM: R. SUTTON, P. ENG., DIRECTOR OF ENGINEERING**

**NOTED: R. FORWARD, MBA, M.SC., P. ENG., GENERAL MANAGER OF INFRASTRUCTURE AND GROWTH MANAGEMENT**

**M. PROWSE, CHIEF ADMINISTRATIVE OFFICER**

**RE: UPDATE ON THE YEAR-END ROAD CONSTRUCTION PROJECTS**

**DATE: DECEMBER 18, 2017**

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The purpose of this Memorandum is to provide members of Council with an update on the progress of key road construction projects that were managed by the Design and Construction branch in the Engineering Department in 2017 including:

- Essa Road – Anne Street to Gowan Street
- Mapleview Drive – Huronia Road to Country Lane
- Royal Oak Subdivision Urbanization, Gables Park and Bay Lane Sanitary and Water Servicing
- Johnson Street Reconstruction
- Dunlop/Miller/Tiffin Intersection Improvements
- Glenecho Drive and College Crescent Reconstruction and Watermain Replacement
- Asphalt Resurfacing Program
- Trunk Watermains associated with Secondary Plan Servicing
- Watermain Replacements – Baldwin Lane and Grove Street

#### **Essa Road – Anne Street to Gowan Street**

##### **Background:**

The City of Barrie tendered Contract 2017-057T for the reconstruction of Essa Road from Anne Street to Gowan Street. The tender closed on May 9, 2017 and was awarded to Arnott Construction Limited. The value of the tender was \$6.2 million.

The construction work commenced in July 2017 and included the reconstruction of the roadway and installation of watermain and water services, sanitary sewer and sanitary services, storm culvert and storm sewer, sidewalks and new traffic signals on Essa Road at the Burton Avenue and Innisfil Street intersections.

##### **Construction Update:**

The construction work on Essa Road has progressed well. The contractor has completed all of the underground work for both phases of the project and the road was fully opened to traffic on Friday, December 8<sup>th</sup>. The project was deemed substantially complete at this time as per our planned schedule. There may still be some intermittent short-term lane closures over the next couple of weeks as the contractor finishes off minor work. As with the City's general practice, surface course asphalt paving will occur in the late spring/early summer of 2018, along with any final landscaping and contract deficiencies.

#### **Mapleview Drive Reconstruction and Widening - Huronia Road to Country Lane**

##### **Background:**

The City tendered Contract 2016-014T for the reconstruction of Mapleview Drive from Huronia Road to Country Lane. The tender closed on May 31, 2016 and was awarded to Arnott Construction Limited. The value of this two-year contract was \$13.4 million.

Mapleview Drive East was widened to accommodate current and future traffic volumes and included sidewalk and a multi-use pathway for active transportation. The work also included the installation of a trunk watermain and trunk sanitary sewer to service adjacent properties as well as portions of both the Salem and Hewitts Secondary Plan. The project also replaced the ageing and undersized Lover's Creek concrete box culvert.

**Construction Update:**

The contractor has completed all the underground work. The road was fully reopened to traffic on Friday, December 1, 2017 and the project has been deemed substantially complete. There may still be some intermittent short-term lane closures over the next couple of weeks as the contractor finishes off minor works. Surface course asphalt paving will occur in the late spring/early summer of 2018, along with any final landscaping and contract deficiencies.

**Royal Oak Subdivision Urbanization, Gables Park and Bay Lane Sanitary and Water Servicing**

The project is the second construction contract in a pair of contracts. The first contract, Contract 2016-001T, constructed sanitary sewer on Brennan Avenue and constructed sanitary sewer and watermain through Gables Park.

The second contract, Contract 2017-001T, Royal Oak Subdivision Urbanization, was awarded in April 2017 to John Bravakis Enterprises Ltd. The value of the tender was \$7.3 million and work began in early May 2017.

The scope of the second contract includes reconstruction of the street infrastructure in the Royal Oak Subdivision (Royal Oak Drive, Forestwood Lane, and Lovers Court) and a section of Tollendal Mill Road, the addition of sanitary servicing in the subdivision and sanitary and water servicing in Gables Park and the private waterfront lots on Bay Lane and Cottage Lane.

The work to be complete by the end of 2017 includes:

- Base asphalt within the Royal Oak subdivision;
- The sanitary servicing and water servicing within the private lots on Bay Lane and the connection to Brennan Avenue sanitary sewer and watermain; and,
- 50 percent of the sanitary servicing on Tollendal Mill Road.

In the spring of 2018, the work will continue, including:

- The remaining sanitary servicing and road works on Tollendal Mill Road;
- Sidewalk, streetlight and utility construction as required, and boulevard restoration on Tollendal Mill Road between Gables Park to Royal Oak Drive and within the Royal Oak subdivision;
- Surface course asphalt paving;
- Restoration along the easement within the private lots on Bay Lane, and on Brennan Avenue; and,
- Minor shoreline restorative work in Gables Park and minor restoration work that was an addition to the contract.

The project construction, as a whole, is on schedule and is expected to be complete in the summer of 2018.

**Johnson Street Reconstruction****Background:**

The City of Barrie tendered Contract 2016-029T for Johnson Street Improvements – Shanty Bay Road to Lake Simcoe. The tender closed on May 24, 2017 and was awarded to Arnott Construction Limited. The value of the tender was \$1.4 million.

This project includes road reconstruction of Johnson Street from Shanty Bay Road to Lake Simcoe including installation of large diameter storm sewer and box culvert, replacement of existing storm outlet, new watermain and replacement of sanitary forcemain.

**Construction Update:**

The construction has progressed well and is on schedule. The contractor has completed the underground works and the roadway was paved on December 5, 2017 and is open to traffic. The project has met the requirements to be deemed substantially complete as per our planned schedule. Surface course asphalt paving will occur in the late spring/early summer of 2018, along with any final landscaping and contract deficiencies.

**Dunlop/Miller/Tiffin Intersection Improvements****Background:**

The City of Barrie tendered Contract 2017-002T for Dunlop Street/Miller Drive/Tiffin Street Intersection Improvements. The tender closed on April 25, 2017 and was awarded to Georgian Paving Ltd. The value of the tender was \$3.7 million.

The project includes:

- Reconstruction and widening of the intersection to match Simcoe County's improvements to County Road 90, including replacement of driveway and road crossing culverts;
- Installation of watermain and sanitary sewer; and,
- New traffic signals and street lighting.

**Construction Update:**

The contract has progressed well although not on the originally anticipated timeline. The initial planned schedule has been delayed as some additional time was incurred as the contract had to be awarded to the second low tender bidder. The contractor has completed watermain and culvert works.

Future works to be completed in 2018 include:

- Sanitary installation is deferred until spring 2018 due to a change in the construction dewatering process to lower the ground water table to install the sanitary sewer;
- Road reconstruction;
- Street lights and traffic signals;
- Base course asphalt; and,
- Top course asphalt (2019).

The contractor has demobilized the project site over the winter period and will remobilize in spring 2018 to finish the remaining work. The contract is scheduled to be substantially complete by August 28, 2018.

**Glenecho Drive and College Crescent Reconstruction and Watermain Replacement****Background:**

The City of Barrie tendered Contract 2017-062T for Glen Echo Drive and College Crescent Reconstruction and Watermain Replacement. The tender closed on June 6, 2017 and was awarded to Pennorth Group Ltd. The value of the tender was \$1.4 million.

The project includes reconstruction of College Crescent and Glenecho Drive including installation of watermain and water service replacement, minor sanitary sewer repairs and road and sidewalk construction.

**Construction Update:**

The contractor has completed the replacement of watermain, minor sanitary sewer repairs, concrete curb and gutter and road reconstruction including base course asphalt.

The remaining works to be completed in 2018 include construction of driveway aprons and concrete sidewalk as well as top course asphalt.

**Asphalt Resurfacing Program****Background:**

The Asphalt Resurfacing Program is intended to address the asphalt surface of streets that has deteriorated with patches, multiple cracks and/or some rutting. The resurfacing works renews the surface of the road to repair and improve the ride quality of the various roads and prevent the roads from deteriorating to the point that they would require more extensive and costly rehabilitation and/or reconstruction.

The City of Barrie tendered two contracts related to the City's Asphalt Resurfacing Program. The first contract (2017-034T) was for the following locations:

- Anne St. (Edgehill Drive to Sunnidale Road)
- Cundles Road (Leacock Drive to Sunnidale Road)
- Ferndale Drive (north City limits to Benson Drive)
- Ferris Lane (Bayfield Street to Collete Crescent)
- Mapleview Drive (20th Sideroad to 650 m east of Prince William Way)
- Worsley Street (Bayfield Street to Mulcaster Street)

The tender closed on April 26, 2017 and was awarded to Georgian Paving Ltd. The value of the tender was \$1.7 million.

The second contract of the program (2017-078T), included partial depth road resurfacing of Mapleview Drive from Bryne Drive to Reid Drive and Veterans Drive from Mapleview Drive to Caplan Avenue. The tender closed on May 16, 2017 and was awarded to Lisbon Paving Co. Ltd. The value of the tender was \$1.2 million.

**Construction Update:**

The contractors have completed the paving works on all the noted roadways.

**Trunk Watermains Associated with Secondary Plan Servicing****Background:**

The purpose of these projects is to extend potable water and fire protection to the Secondary Plan lands in the south end of Barrie. The first project involves a 750 mm trunk watermain on Ashford Drive and Madelaine Drive running from Big Bay Point Road, through the Yonge Street intersection, to Mapleview Drive East. The second project involves a 600 mm trunk watermain running on Sandringham Drive, Consort Drive, Sun King Crescent, and Royal Jubilee Drive between Big Bay Point Road to Mapleview Drive East.

The City of Barrie tendered the projects in two contracts. The first contract (2017-008T) was for the Ashford Drive and Madelaine Drive transmission watermains. The tender closed on February 22, 2017 and was awarded to Arnott Construction Limited. The value of the tender was \$3.0 million.

The second tender (2017-041T) for the Sandringham Drive/Consort Drive transmission watermains closed on March 14, 2017 and was awarded to Trisan Construction Limited. The value of the tender was \$3.4 million.

**Construction Update:**

The construction on the Ashford Drive and Madelaine Drive transmission watermains and commissioning is complete. Connection to the existing water system is anticipated to be complete in December 2017.

The construction the Sandringham Drive/Consort Drive transmission watermains is ongoing and will progress into 2018.

For both of these projects, the surface asphalt is being renewed. This work will be completed in 2018, along with any contract deficiencies.



**Watermain Replacements – Baldwin Lane and Grove Street**

**Background:**

The purpose of this project is to replace aging infrastructure. The existing watermain in these areas have broken on several occasions in the recent past and replacing the watermain will ensure a more reliable water supply.

The City of Barrie tendered contract (2017-071T) for the Grove Street Watermain Replacement – Davies Crescent to Cook Street and Baldwin Lane Watermain Replacement – Marshall Street to Bayview Drive. The tender closed on May 12, 2017 and was awarded to Pennorth Group Limited. The value of the tender was \$1.2 million.

**Construction Update:**

All works are completed on both Baldwin Lane and Grove Street and are open to traffic.

If there are any questions regarding any of the City's capital projects, please contact Stew Patterson at extension 4481 (email [Stew.Patterson@barrie.ca](mailto:Stew.Patterson@barrie.ca)).