

**COUNTY OF RENFREW**

**PUBLIC WORKS and ENGINEERING DEPARTMENT REPORT**

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**TO:** Operations Committee

**FROM:** Lee Perkins, C.E.T., MBA, Director of Public Works and Engineering

**DATE:** August 11, 2020

**SUBJECT:** Department Report

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**INFORMATION**

**1. Monthly Project Status Update**

Attached as Appendix I is the Monthly Project Status Report for the information of Committee. Additional project specific information is provided in the Divisional reports.

**2. Capital Program Variance Report**

Attached as Appendix II is the Capital Program Variance Report for the information of Committee.

**3. Monthly Treasurer's Report**

As directed by County Council, the Treasurer's Report is to be provided on a quarterly basis from January to September. Accordingly, Appendix III is a copy of the June 2020 Treasurer's Report for the Public Works and Engineering Department and will be emailed prior to the meeting.

**4. Garrison Petawawa**

On July 29, 2020, Paul Moreau, CAO/Clerk and Lee Perkins, Director of Public Works and Engineering attended an informal staff-to-staff meeting with the new Base Commander, Colonel Vass and senior civilian staff at Garrison Petawawa to discuss items of common interest.

5. **Highway 148 Rehabilitation**

Attached as Appendix IV is correspondence from the Township of Laurentian Valley expressing concerns with the proposed T Intersection at the corner of Highway 148 and County Road 40 (Greenwood Road). The Township is requesting the County review the intersection in order to provide the best road design possible to meet the needs of the community.

6. **Speed and Signage – County Road 508 and County Road 52**

Attached as Appendix V is an email stream between Susan Anglin, Braeburn Estates and Mr. Perkins regarding road noise and speed issues on County Road 508 (Calabogie Road) and County Road 52 (Burnstown Road). Ms. Anglin has been advised that any traffic sign and speed adjustment requests are required to come by resolution from the lower-tier municipality to the Operations Committee for review.

7. **No Parking Signs – County Road 508**

Attached as Appendix VI is an email request from Lindsey Lee, CAO/Clerk, on behalf of the Township of McNab/Braeside Council for consideration to post a “No Parking Sign” along the roadside on County Road 508 (Calabogie Road) at the Burnstown Beach and to reduce the speed limit from 80 kph to 60 kph.

8. **Renfrew Street Geotechnical Report**

Attached as Appendix VII is a draft Geotechnical Report that was provided to the Town of Renfrew from GEMTEC for the Reconstruction of County Road 52 (Raglan Street South) and Airth Boulevard, Town of Renfrew. This section of road is in poor condition and the Town of Renfrew is requesting the County to consider a full depth reconstruction to provide better value for the \$1.2 million project instead of the proposed shave and pave.

9. **Highway 60 and County Road 30 Intersection – Village of Golden Lake**

Attached as Appendix VIII is a letter drafted by Warden Robinson to Minister Caroline Mulroney thanking her for moving forward with the commissioning of an operational review by the Ministry of Transportation Ontario Traffic Engineering Consultant to further investigate potential

improvements to the intersection of Highway 60 and County Road 30 (Lake Dore Road).

10. **Signage – County Road 508 and Eagle’s Nest Trail**

Attached as Appendix IX is a resolution and agreement signed by the Township of Greater Madawaska authorizing the County of Renfrew to proceed with the purchase and installation of a solar pedestrian crossing system on County Road 508 (Calabogie Road) at the Eagle’s Nest Trail. The Township of Greater Madawaska will provide 50% of the cost, to a maximum of \$11,136 towards this project. Total cost for the project is \$22,272.30, HST included. This project will be included in the 2020 budget.

11. **Culhane Road Culvert**

Attached as Appendix X is a request from the Township of Admaston/Bromley to review a culvert on Culhane Road to determine if the structure will be accepted under the jurisdiction of the County of Renfrew. Staff will review the culvert to determine if it meets the criteria.

12. **Speed Reduction – Highway 60**

Attached as Appendix XI is a letter sent to the Honourable Caroline Mulroney, Minister of Transportation by the Township of North Algona Wilberforce requesting the Province of Ontario to consider expanding the speed reduction zone on Highway 60 to include the area between Kranz Road and McMillan Road.

13. **Investing in Canada Infrastructure Program – Green Funding**

Attached as Appendix XII is notification from the Ministry of Infrastructure advising that the County of Renfrew was unsuccessful in their application under the first intake of the Green funding stream of the Investing in Canada Infrastructure Program (ICIP) for the replacement of County Structure C250 (Pleasant Valley Culvert).

14. **Calvary Baptist Church Killaloe Retaining Wall**

The following recommendation was tabled at the June 9, 2020 meeting of Operations Committee: “THAT the Operations Committee direct staff to

remove the existing retaining wall, landscape, grade and reseed the area at the Calvary Baptist Church located at 148 Queen Street, Killaloe, Ontario.”

Staff are currently waiting on the survey data to assist with solidifying the ownership of the roadway and the original retaining wall and will bring this item back to Committee once it becomes available.

## **RESOLUTIONS**

### **15. Request for Road Assumption – Ferguson Lake Road, Township of Greater Madawaska**

**Recommendation:** THAT the Operations Committee recommend that Council not assume responsibility for Ferguson Lake Road in the Township of Greater Madawaska as part of the County Road System at the next session of County Council; AND FURTHER THAT staff be directed to communicate with the Township staff the requirements for road assumption.

#### **Background**

Attached for Committee’s information as Appendix XIII is a letter dated April 16, 2019 from the Township of Greater Madawaska requesting road rationalization for the possibility of transferring a number of roads-- Ferguson Lake Road and sections of Kennelly Mountain Road, Mount St. Patrick and Flat Road to the County of Renfrew. (Reference maps attached as Appendix XIV.)

Due to the seasonal use of Ferguson Lake Road, two separate traffic counts were obtained as it was assumed that winter traffic to and from Calabogie Peaks Resort could possibly skew the tallies. The results from September 2, 2019 (Appendix XV) indicates that the Annual Average Daily Traffic (AADT) was 91 vehicles. A second count was conducted on March 9, 2020 (Appendix XVI) which indicates that the AADT was 90 vehicles.

The Department utilizes the Ontario Good Roads Association (OGRA) Road Rationalization criteria and weighting system, which is attached as Appendix XVII, when evaluating assumption requests. This document highlights the 12 criterion and associated weightings to assess whether or not a roadway meets upper tier road standards as an urban centre collector or an urban arterial extension. It also identifies a cumulative “cutoff” point rating of 6 for the evaluation process.

Attached as Appendix XVIII are the results for the roadway using the theory that the road must meet either the criteria for urban centre connector or the criteria for urban arterial extension worth 3 points (Criterion 1), plus all four criteria for traffic speed (Criterion 9), road surfaces (Criterion 10), traffic volumes (Criterion 11) and road right-of-way (Criterion 12) worth a combination of 3 points, or another combination of criteria to have a total weight of 6. A total of 40% was obtained using all criteria as outlined in the OGRA document. Using the five specific Criterion 1, 9, 10, 11 and 12, Ferguson Lake Road scores 8 out of a possible 36 for a rating of 22%. A total of 100% is required by the OGRA standards for an upper tier to assume the roadway.

Historically, the following three principals have been employed in road rationalization reviews:

- Upper tier roads, that are primary transportation corridors, should provide continuous roadway services throughout the County,
- Upper tier roads should be capable of being upgraded to a reasonable standard, consistent with the service provided, and
- Upper tier roads should represent the shortest practical route along existing roads and streets.

#### Road Rationalization

The most recent road rationalization within the County occurred in 1998, coincident with the downloading of a number of provincial highways to the County. Prior to the 1998 rationalization the County Good Roads System included approximately 480 km of roads and 60 bridges. At that point in time the local municipalities in the Good Roads System included the Towns of Arnprior and Renfrew, the former Villages of Cobden, Eganville, Petawawa, Beachburg and Braeside, and the former Townships of Petawawa, Pembroke, Stafford, Alice and Fraser, Wilberforce, Westmeath, Ross, Bromley, Admaston, Horton and McNab. The remaining municipalities within the County were not included in the Good Roads System prior to 1998.

In the 1998 Road Rationalization Study approximately 100 km of road were transferred from the County to the local municipalities and approximately

200 km of road were transferred to the County. In addition, all structures with spans of 3.0 m or greater, defined as bridges, were brought into the County system. The downloading of provincial highways in 1997 and 1998 resulted in approximately 240 km of former provincial highways being included in the County Road System. The 1998 roads rationalization considered roads in all local municipalities within the County.

Over the past several years a number of local municipalities have requested that certain roads be considered for inclusion in the County system. The requests have been reviewed on an individual basis and in each instance it was determined that the road under review did not satisfy the criteria required to be a County road. In addition one road, Herrick Drive in Arnprior was removed from the County Road system after the connection to Highway 417 was eliminated with the construction of the four-lane section of the highway. Herrick Drive was transferred to the Town of Arnprior in 2005.

The present County Road System consists of approximately 810 km of roads and 265 structures.

## **BY-LAWS**

### **16. Engineering Services – County Road 51**

**Recommendation:** THAT the Operations Committee recommends that Council adopt a By-law to award Request for Proposal RFP-2020-48 submitted by AECOM Canada Limited, Ottawa, Ontario, for the Transportation Study and Detailed Design of County Road 51 (Petawawa Boulevard) Intersections from County Road 26 (Doran Street) Northerly 1.2 km to Garrison Petawawa, in the Town of Petawawa in the amount of \$247,904, excluding HST at the next session of County Council; AND FURTHER THAT funding for this project be allocated from the Tangible Capital Assets Renewal Reserves.

#### **Background**

As directed by County Council on May 27, 2020, a Request for Proposal for engineering services for a transportation study as well as the preliminary and detailed design of County Road 51 (Petawawa Boulevard) Intersections from County Road 26 (Doran Street), northerly 1.2 km to Garrison Petawawa in the Town of Petawawa was issued in June 2020.

A total of three proposals were received as follows:

1.	AECOM Canada Limited, Ottawa, ON	\$247,904
2.	BT Engineering Incorporated, Ottawa, ON	251,415
3.	J.L. Richards and Associates Limited, Ottawa, ON	284,025
	All amounts exclude 13% HST	

This project is not included in the approved 2020 Budget and staff are proposing that the funds be allocated from the Tangible Capital Assets Renewal Reserves to complete this project.

Requests for Proposals were processed in accordance with County of Renfrew Corporate Policy GA-01 for the Procurement of Goods and Services.

#### 17. Land Use Agreement with Keetna Snowmobile Club

**Recommendation:** THAT the Operations Committee recommends that County Council pass a By-law to rescind By-law 8-16 being a By-law for the Execution of a Land Use Agreement with Keetna Snowmobile Club and Snow Country Snowmobile Association at the next session of County Council.

##### **Background**

County Council on January 27, 2016 adopted By-law Number 8-16 for the execution of a land use agreement with the Keetna Snowmobile Club and Snow Country Snowmobile Association to grant permission to enter upon and utilize a portion of County Road 51 (Petawawa Boulevard) road allowance for the purposes of operating a snowmobile trail. With the development of the Algonquin Trail, By-law Number 106-17 was adopted on October 25, 2017 that grants permission for the snowmobile club to enter upon and utilize a portion of the Ottawa Valley Recreational Trail, which includes a section of trail through the Town of Petawawa moving snowmobilers off of the road allowance for County Road 51. Therefore the Land Use Agreement dated January 27, 2016 is no longer required.

**18. Infrastructure Division**

Attached as Appendix XIX is the Infrastructure Division Report, prepared by Mr. Mr. Michael Behm, Acting Manager of Infrastructure, providing an update on activities.

**19. Operations Division**

Attached as Appendix XX is the Operations Division Report, prepared by Mr. Richard Bolduc, Manager of Operations, providing an update on activities.



## **INFRASTRUCTURE DIVISION REPORT**

Prepared by: Michael Behm, C.Tech., Acting Manager of Infrastructure

Prepared for: Operations Committee

August 11, 2020

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### **INFORMATION**

#### **1. Asphalt Scratch Coat Paving & Shoulder Gravelling**

The County of Renfrew Department of Public Works & Engineering issued a tender for Asphalt Scratch Coat Paving & Shoulder Gravelling.

Tenders were received as follows:

	<b>Submitted Amount</b>
1. Miller Paving Limited, New Liskeard, Ontario	\$599,265.50
2. H&H Construction Incorporated, Petawawa, Ontario	666,532.78
3. Greenwood Paving (Pembroke) Limited, Pembroke, Ontario	670,243.75
4. Bonnechere Excavating Incorporated, Renfrew, Ontario	708,162.83
All amounts exclude applicable taxes	

The current 2020 Capital Works budget includes funds in the amount of \$695,564 for Asphalt Scratch Coat Paving & Shoulder Gravelling. Also part of this Tender is the milling and paving of County Structure B021 (Indian River Bridge, B Line Road). Funds for the resurfacing of B021 in the amount of \$26,282 will be coming from the General Bridge Repairs budget which is \$200,000. Staff have reviewed the tender results for the project and confirmed that there are sufficient funds to complete the project as tendered. Tenders were processed in accordance with County of Renfrew Corporate Policy GA-01 for the Procurement of Goods and Services.

In accordance with the County of Renfrew By-law 33-20 – A By-law to Delegate Authority for the Period of March 19, 2020 and until the Province terminates their emergency declaration and the extension for the month of July approved on June 24, 2020, the Chief Administrative Officer/Clerk and Warden were given delegated authority to approve consultant

appointments and contract awards that would normally require Committee and/or Council approval and this tender has been awarded to Miller Paving Limited, New Liskeard, Ontario.

2. **PWC-2020-12 – Reconstruction of County Road 512**

The County of Renfrew Department of Public Works & Engineering issued a tender for the reconstruction of County Road 512 (Foymount Road) from Silver Lake Road to Miller Road, in the Township of Bonnechere Valley.

Tenders were received as follows:

	<b>Submitted Amount</b>
1. Bonnechere Excavating Incorporated, Renfrew, Ontario	\$1,466,260.78
2. R.G.T. Clouthier Construction Limited, Pembroke, Ontario	1,635,200.89
3. Greenwood Paving (Pembroke) Limited, Pembroke, Ontario	2,374,439.50
All amounts exclude applicable taxes	

The current 2020 Capital Works budget includes funds in the amount of \$1,650,640 for the reconstruction of County Road 512 (Foymount Road) from Silver Lake Road to Miller Road. Staff have reviewed the tender results for the project and confirmed that the unit prices submitted are reasonable for this size of project. Staff have reviewed the tender results along with all other costs associated with this project and confirmed that there are sufficient funds to complete the project as tendered through the use of County of Renfrew, Tangible Capital Assets Renewal Reserves. Tenders were processed in accordance with County of Renfrew Corporate Policy GA-01 for the Procurement of Goods and Services.

In accordance with the County of Renfrew By-law 33-20 – A By-law to Delegate Authority for the Period of March 19, 2020 and until the Province terminates their emergency declaration and the extension for the month of July approved on June 24, 2020, the Chief Administrative Officer/Clerk and Warden were given delegated authority to approve consultant appointments and contract awards that would normally require Committee and/or Council approval and this tender has been awarded to Bonnechere Excavating Incorporated, Renfrew, Ontario.

### 3. **C124 Cameron Culvert – Emergency Repairs**

As Committee recalls, County Structure C124 was designed by WSP and replaced in 2019 by our Day Labour Crew. On June 4, 2020 staff from WSP conducted a review of performance of this structure. It was noted during this review that following the spring runoff, the rip rap inside the culvert washed out, the footings became exposed and were undermined for most of the length of the structure. This created an emergency situation that needed to be addressed as soon as possible. County staff met with WSP onsite to assess the situation and come up with a methodology for the repair.

WSP and County staff met virtually with the Ministry of Natural Resources and Forestry (MNRF) to advise them of the situation and obtain their approval to complete the emergency repairs outside of the in water works window. Fisheries and Oceans Canada (DFO) was also made aware of the emergency repairs. The County Day Labour Crew completed the repairs during the week of June 15, 2020 by placing Tremie Concrete below the water line under the footings and the bottom of the culvert.

Staff is currently drafting a letter to WSP requesting compensation for this emergency work as their design should have taken into account the spring flows to prevent this situation. The final invoices are still coming in, but the County has spent approximately \$50,000 on the repairs which includes staff time, equipment rental and materials.

## **OPERATIONS DIVISION REPORT**

Prepared by: Richard Bolduc, A.Sc.T., Manager of Operations

Prepared for: Operations Committee

August 11, 2020

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### **INFORMATION**

#### **1. Summer Operations**

##### **a) Roadside Mowing**

The roadside mowing program is well underway with most roadways having been cut once. Additional roadside mowing is continuing at those locations where there is a greater need to improve visibility.

##### **b) Annual Pavement Marking Program**

The 2016 Pavement Marking Contract PWO-2016-11 with Trillium Pavement Marking, Ottawa, Ontario, was extended for the 2020 season. The contract consists of the painting of the longitudinal pavement markings (i.e. yellow centerlines and white edge lines) on County roads, as well as restoring the pavement marking for all capital projects. The Contractor commenced the annual pavement marking program on May 11, 2020 and is making their way through the County. The capital projects portion of this contract is anticipated to continue throughout the remainder of the construction season.

##### **c) Street Sweeping**

The awarded contractor, Eastway Contracting Incorporated commenced work May 11, 2020 and the work was completed June 4, 2020.

##### **d) Catch Basing Cleaning**

The awarded contractor, XSite Enterprises Incorporated commenced work on May 27, 2020 and the work was completed June 29, 2020.

e) Weed Control

The County of Renfrew once again utilized Wagar and Corput Weed Control Inc. to control noxious weeds along County of Renfrew rural area roadsides. Work began on July 20 and was completed on July 24, 2020. Public notices were published in all local newspapers.

f) Adopt-A-Road Program

The Adopt-A-Road Program was put on hold on April 29, 2020 during COVID-19. On June 23, 2020 a bulletin was released in regards to COVID-19 ensuring additional safety measures had been added to adhere to new health and safety guidelines which has allowed us to restart the Adopt-A-Road program on June 26, 2020.

2. **Fleet Management – Annual Vehicle Safety Inspections**

Work is continuing with the annual vehicle safety inspections within the fleet. The goal is to ensure that all heavy duty trucks have been inspected and repaired as necessary in order to be available at the start of the coming winter season. In addition to the inspection and repair of those vehicles within the Department of Public Works and Engineering, staff also performs the routine maintenance, inspection and repair of the paramedic vehicles.

3. **Quotations and Tenders**

A summary of tenders and quotations received in the month of July 2020 is attached as Appendix OP-I. Tenders listed in Appendix OP-I have been awarded under the authority of the Director of Public Works and Engineering or the Chief Administrative Officer. In all cases the procurements have followed the processes set out in Corporate Policy GA-01 Procurement of Goods and Services.

**BY-LAWS**

4. **PWO-2020-19 – Roofing Replacement and Exterior Wall Repairs – Cobden Patrol Garage**

**Recommendation:** THAT the Operations Committee recommend that Contract PWO-2020-19 as submitted by Irvcon Limited, Pembroke, Ontario for the roofing

replacement and exterior wall repairs at the Cobden Patrol Garage in the amount of \$187,075.00 plus HST be approved; AND FURTHER THAT a By-law be passed to Authorize Execution of the Contract at the next session of County Council.

### **Background**

Tenders were requested for the reroofing and repair of walls at the County's Cobden Patrol Garage, in the Township of Whitewater Region and received as follows:

	<u>Submitted Amount</u>
1. Irvcon Limited, Pembroke, ON	\$187,075.00
All amounts exclude applicable taxes	

The tender documents required that Contractors provide a provisional cost for "Mobilization/Demobilization in Year 2 (Provisional)" as well as special provisions allowing the County the opportunity to split the project over two construction seasons.

The current 2020 Operations Housing budget includes funds in the amount of \$103,525 for the reroofing and wall repairs for the Cobden Patrol Garage. The project was anticipated to be completed over a two year period, with \$25,000 allocated in 2021.

Should the project be assigned to be completed over two years and the most efficient number of items be completed within the first year, the cost for the overall project is projected to be \$102,434.01, plus HST, with a required allocation of \$94,014.90 in the 2021 budget. However, if the project were to be completed entirely in 2020, the projected cost is \$196,448.91, plus HST with Contract Administration costs. Although completion within a single year exceeds the 2020 projected budget, it would reduce the amount of disruption to patrol.

After review of the tender results for the project, it has been determined that the benefits of completing the project a single year warrant allocating greater funds in 2020. Sufficient funds are available to be reallocated from surplus in other Departmental Capital Projects.

A comparison of the 2020 Project Budget and projected costs should the project be awarded as a single year assignment is provided in the following table:

Reroofing and Wall Repair at Cobden Patrol Garage					
	2020 Budget	Low Tender		High Tender	
		Projected	Variance	Projected	Variance
Construction	85,000.00	190,367.52	(105,367.52)	190,367.52	(105,367.52)
Engineering - Design/Tendering	6,000.00	5,952.96	47.04	5,952.96	47.04
Project Administration & Construction Supervision	5,000.00	4,981.15	18.85	4,981.15	18.85
Contingency	7,525.00	10,065.08	(2,540.08)	10,065.08	(2,540.08)
<b>Total</b>	<b>103,525.00</b>	<b>211,366.71</b>	<b>(107,841.71)</b>	<b>211,366.71</b>	<b>(107,841.71)</b>
* All costs are net HST					
* Projected costs are based on Tender results					

#### 5. PWO-2014-17 – Extension of Fuel Tender to W.O. Stinson and Son Limited

**Recommendation:** THAT the request for extension of contract PWO-2014-17, Supply and Delivery of Diesel Fuel, Gasoline, Heating Oil, and Above Ground Storage Tanks be approved for one (1) year in accordance with the contract documents; AND FURTHER THAT the Operations Committee recommend that a By-law to Authorize Execution of the Contract Extension be passed at the next session of County Council.

#### Background

Tenders for the above Contract were received and approved in 2014 with W.O. Stinson and Son Limited being the successful tenderer.

Clause TC-17 of the Contract contains a provision to permit an extension of the contract for additional one (1) year periods subject to satisfactory service, price, terms and conditions. Further, extensions are to be mutually acceptable and subject to a continued requirement by the County and budgetary approval.

W.O. Stinson and Son Limited has requested an extension to the existing Contract for an additional year beginning August 2020.

Procurement of the goods and services included in this tender followed the requirements set out in Corporate Policy GA-01 Procurement of Goods and Services.

The basis of this contract including all fuel used by Public Works and Engineering, Emergency Services, Development and Property and Social Services vehicles would be included in a single tender and obtained from a single source. Records indicate that approximately 600,000 litres of diesel fuel and 150,000 litres of gasoline are consumed by County vehicles annually.

W.O. Stinson and Son Limited has supplied fuel to the County for over fifteen years and has provided exceptional service during that time. Staff recommends that the contract be extended for an additional one (1) year term until August 2021.