



## The Regional Municipality of Durham

### Works Committee Agenda

Council Chambers  
Regional Headquarters Building  
605 Rossland Road East, Whitby

**Wednesday, June 8, 2022**

**9:30 AM**

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Please note: In an effort to help mitigate the spread of COVID-19 and to comply with public health measures, this meeting will be held in a hybrid meeting format with electronic and limited in-person participation. It is encouraged that members of the public [view the Committee meeting](#) via live streaming, instead of attending the meeting in-person. If in-person attendance is required, arrangements must be made by emailing [clerks@durham.ca](mailto:clerks@durham.ca) prior to the meeting date. Individuals are required to complete passive screening prior to entering Regional Headquarters and must wear a mask or face covering while on the premises.

**1. Roll Call**

**2. Declarations of Interest**

**3. Adoption of Minutes**

A) Works Committee meeting – May 4, 2022

Pages 4 - 9

**4. Statutory Public Meetings**

There are no statutory public meetings

**5. Delegations**

There are no delegations.

**6. Presentations**

- 6.1 Presentation of the 2021 Ontario Public Works Association Project of the Year Award to the Regional Municipality of Durham – Victoria Street Reconstruction and Widening Project

6.2 Presentation by Ron Trewin, Senior Project Manager, Transportation Design, re: Victoria Street Reconstruction and Widening Project

**7. Waste**

7.1 Correspondence

7.2 Reports

There are no Waste reports

**8. Works**

8.1 Correspondence

A) Correspondence from the City of Oshawa regarding resolution passed by Oshawa City Council on May 24, 2022 with respect to New Community Safety Zone on Raglan Road on the West Side of Simcoe Street

10 - 11

Recommendation: Refer to Staff

8.2 Reports

A) Servicing Agreement with OPB Realty Inc. for the Relocation and Oversizing of a Sanitary Sewer and Watermains from an Easement on Private Property onto Glenanna Road and Pickering Parkway, in the City of Pickering (2022-W-28)

12 - 17

B) Petition for Construction of a Sanitary Sewer system on Meadow Street, in the City of Oshawa (2022-W-29)

18 - 21

C) Sole Source of Engineering Services for the Rectification of Deficiencies at Port Darlington Water Pollution Control Plant, in the Municipality of Clarington (Bowmanville) (2022-W-30)

22 - 26

D) Sole Source Amendment to an Existing Contract for Additional Engineering Services for the Detailed Design of a Watermain on Liberty Street (Reg Rd 14) and Concession Road 3, in the Municipality of Clarington (2022-W-31)

27 - 32

E) Approval to Award a Sole Source Agreement for Annual Preventative Maintenance on the Hydroxyl Generator Units installed at Various Locations throughout the Regional Wastewater Systems (2022-W-32)

33 - 36

- |    |   |         |
|----|---|---------|
| F) | Subdivision Agreement with 2103386 Ontario Inc., Including Cost Sharing in Accordance with the Region Share Policy, for the Extension and Oversizing of a Sanitary Sewer in the Municipality of Clarington (2022-W-33)  | 37 - 42 |
| G) | Approval of Unbudgeted Capital Work and Related Financing to Undertake the Geotechnical Investigations, Subsurface Utility Investigations and Detailed Design for the Watermain Replacement on Belton Court, in the Town of Whitby, and Watermain Replacement on Mary Street, in the City of Oshawa (2022-W-34)   | 43 - 46 |
| H) | Approval of Capital Works and Financing to be Incorporated into a Servicing Agreement with Garrard Limited Partnership GP Inc., Garrard Limited Partnership, Garrard Coinvest Limited Partnership GP Inc. and Garrard Coinvest Limited Partnership, Including Cost Sharing in Accordance with the Region Share Policy, for the construction of a 600 millimetre Waterman, in the Town of Whitby (2022-W-35) | 47 - 51 |
| I) | Sole Source Procurement of Additional Engineering Services for Construction Inspection for Complex Capital Construction Projects (2022-W-36)  | 52 - 58 |

**9. Advisory Committee Resolutions**

There are no advisory committee resolutions to be considered

**10. Confidential Matters**

There are no confidential matters to be considered

**11. Other Business**

**12. Date of Next Meeting**

Wednesday, September 7, 2022 at 9:30 AM

**13. Adjournment**

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## The Regional Municipality of Durham

### MINUTES

#### WORKS COMMITTEE

Wednesday, May 4, 2022

A regular meeting of the Works Committee was held on Wednesday, May 4, 2022 in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby, Ontario at 9:30 AM. Electronic participation was offered for this meeting.

#### 1. Roll Call

Present: Councillor Mitchell, Chair  
Councillor Marimpietri, Vice-Chair  
Councillor Barton  
Councillor Crawford  
Councillor McLean  
Councillor John Neal  
Councillor Smith  
Regional Chair Henry  
**\*all members of the Committee participated electronically with the exception of Councillor Marimpietri**

Also  
Present: Councillor Drew  
Councillor Wotten

Staff  
Present: E. Baxter-Trahair, Chief Administrative Officer  
J. Demanuele, Acting Commissioner of Works  
A. Evans, Manager, Waste Services  
W. Holmes, General Manager, DRT  
J. Hunt, Regional Solicitor/Director of Legal Services, Corporate Services – Legal Services  
R. Inacio, Systems Support Specialist, Corporate Services – IT  
R. Jagannathan, Director of Transportation and Field Services  
J. Presta, Director of Environmental Services  
N. Taylor, Commissioner of Finance  
P. Veiga, Manager, Waste Management  
L. Fleury, Legislative Officer and Deputy Clerk Pro Tem, Corporate Services – Legislative Services  
N. Prasad, Assistant Secretary to Council, Corporate Services – Legislative Services

**2. Declarations of Interest**

There were no declarations on interest.

**3. Adoption of Minutes**

Moved by Councillor Barton, Seconded by Councillor Smith,  
(46) That the minutes of the regular Works Committee meeting held on  
Wednesday, April 6, 2022, be adopted.

CARRIED

**4. Statutory Public Meetings**

There were no statutory public meetings.

**5. Delegations**

There were no delegations to be heard.

**6. Presentations**

There were no presentations to be heard.

**7. Waste**

7.1 Correspondence

There were no items of correspondence to consider.

7.2 Reports

There were no Waste Reports to consider.

**8. Works**

8.1 Correspondence

There were no items of correspondence to consider.

8.2 Reports

A) Approval to Award a Sole Source Agreement to Continue the Provision of Bioxide and Associated Chemical Dosing System to Reduce Odour and Corrosion in the Trunk Sanitary Sewer located in Lord Elgin Park, in the Town of Ajax (2022-W-25)

Report #2022-W-25 from J. Demanuele, Acting Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,  
(47) That we recommend to Council:

- A) That staff be authorized to negotiate and award a sole source agreement with Evoqua Water Technologies for the provision of bioxide and the associated chemical dosing system at an upset limit of \$375,000\*, from June 1, 2022, for a period not to extend beyond December 31, 2023, to be financed through the annual Sanitary Sewerage Business Plans and Budgets; and
- B) That the Commissioner of Finance or designate be authorized to execute the necessary documents related to this sole source agreement.

CARRIED

- B) Agreement with the City of Toronto and the Regional Municipality of Durham related to the Finch Avenue Watermain (2022-W-26)

Report #2022-W-26 from J. Demanuele, Acting Commissioner of Works, was received.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,  
(48) That we recommend to Council:

- A) That the Regional Municipality of Durham enter into an agreement with the City of Toronto for the supply of water from the Regional Municipality of Durham to the City of Toronto from the existing watermain on Finch Avenue and Beare Road in the City of Toronto in a form satisfactory to the Commissioner of Works and the Regional Solicitor, with the following key terms:
  - i) The Regional Municipality of Durham's continued provision of the water supply services and the continued direct billing of the current customers at the current water user rate;
  - ii) The City of Toronto shall remain responsible for the cost of any required repair work completed by the Regional Municipality of Durham;
  - iii) The Regional Municipality of Durham shall own and maintain the watermain in accordance with legislative requirements under the Safe Drinking Water Act and associated regulations, the Regional Municipality of Durham's Municipal Drinking Water Licence and Drinking Water Works Permit;
  - iv) The agreement is for an initial term ending December 31, 2041; and

- B) That the Regional Chair and Clerk be authorized to execute the agreement.  
CARRIED

C) Amendments to Gross Vehicle Weight – Bridges By-Law #42-2019 (2022-W-27)

Report #2022-W-27 from J. Demanuele, Acting Commissioner of Works, was received.

Staff responded to questions with regards to the lifting of load restrictions as some projects are dependent on half-load restrictions being changed to full-load.

Moved by Councillor Marimpietri, Seconded by Regional Chair Henry,  
(49) That we recommend to Council:

- A) That Corporate Services – Legal Services be directed to prepare an amending by-law to amend By-Law #42-2019, generally in the form included as Attachment #1 to Report #2022-W-27, for submission to Regional Council for passage; and
- B) That staff be authorized to take all steps necessary to give effect to the amendments contemplated to By-Law #42-2019 as indicated in the form included as Attachment #1.

CARRIED

**9. Advisory Committee Resolutions**

There were no advisory committee resolutions to be considered.

**10. Confidential Matters**

There were no confidential matters to be considered.

**11. Other Business**

11.1 Speed Limits on Regional Road 12, Village of Cannington

Councillor Smith inquired about the speed limits on Regional Road 12, through the Village of Cannington. He stated that for several years, the speed limit has been a 70 km zone past the high school on Regional Road 12, which then decreased to a 50 km zone during school times. He advised that the 50 km zone is now a permanent 60 km zone and inquired what the rationale was behind the change. Staff confirmed they would look into this and respond to Councillor Smith.

11.2 Automated Speed Enforcement Cameras

Councillor John Neal inquired about the timing of the Report for Automated Speed Enforcement Cameras to area municipalities.

11.3 Photo Radar Boxes in the City of Pickering

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Councillor McLean advised that the photo radar boxes in the City of Pickering are frequently being tipped over and inquired whether there are internal cameras to capture those responsible and stated that it is important that it is reported to the police. Staff confirmed they would look into this and respond to Councillor McLean.

11.4 Subdivision in Claremont, Pickering regarding Wells

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Councillor McLean advised that there is an application for a subdivision in Claremont, Pickering which is looking at drilled wells and individual septic beds. He inquired whether there are other communities in Claremont that have individual wells and whether there have been issues with regards to the quality/quantity of the wells over the last 5 years. Staff confirmed they would look into the matter and respond to Councillor McLean.

11.5 Update on Vision Zero

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Councillor Crawford provided the following Vision Zero Update:

- There have been no fatalities on Regional Roads for the 2022 year;
- Permanent speed cameras in Claremont are now live;
- The leading pedestrian interval at Brock Street and Toronto Street (Highway 47) in the Township of Uxbridge is now live;
- After a low number of speed camera fines in February, numbers are back up in March; and
- Vision Zero staff is available to visit any municipality and provide an update at local council meetings.

**12. Date of Next Meeting**

The next regularly scheduled Works Committee meeting will be held on Wednesday, June 8, 2022 at 9:30 AM in Council Chambers, Regional Headquarters Building, 605 Rossland Road East, Whitby.

**13. Adjournment**

Moved by Regional Chair Henry, Seconded by Councillor Crawford,  
(50) That the meeting be adjourned.

CARRIED

The meeting adjourned at 9:54 AM

Respectfully submitted,

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D. Mitchell, Chair

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N. Prasad, Assistant Secretary to Council

May 26, 2022

**DELIVERED BY E-MAIL**

(clerks@durham.ca)

Regional Municipality of Durham

Re: New Community Safety Zone on Raglan Road on the West Side of Simcoe Street

This is in response to your correspondence to the Community Services Committee dated March 9, 2022.

Oshawa City Council considered the matter at its meeting of May 24, 2022 and adopted the following recommendation of the Community Services Committee:

“Whereas at the March 21, 2022 Community Services Committee meeting, as per Item CS-22-31, Jill Coffey submitting a request for a Community Safety Zone and concerns regarding speeding on Raglan Road East (Ward 1), staff were directed as follows: That Correspondence CS-22-31 from Jill Coffey submitting a request for a Community Safety Zone and concerns regarding Speeding on Raglan Road East be referred to staff for a report; and,

Whereas City staff met on March 16, 2022, with the Ward 1 Councillors along with representatives from Durham Regional Police Service (D.R.P.S.) and the Region of Durham; and,

Whereas staff have reviewed existing speed data along Raglan Road East and shared it with Durham Regional Police Services and requested targeted speed enforcement; and,

Whereas staff reviewed the existing speed limit signage along Raglan Road East between Simcoe Street North and Townline Road North; and,

Whereas staff will be installing additional speed limit signage along Raglan Road East between Simcoe Street North and Townline Road North to provide motorists with positive guidance to the posted speed limit; and,

Whereas staff will be temporarily installing two (2) Radar Message Boards along Raglan Road East between Simcoe Street North and Ritson Road North near the residential properties as a temporary traffic calming measure; and,

Whereas by correspondence CS-22-53, the Region of Durham is planning on implementing a Community Safety Zone on the Region’s section of Raglan Road West, west of Simcoe

Street North and is requesting the City to implement a community safety zone on Raglan Road East, east of Simcoe Street; and,

Whereas White Feather Farms (15 Raglan Road East) and Linton's Farm Market (571 Raglan Road East) are located along this section of Raglan Road East; and,

Whereas these two establishments can generate high levels of parking and pedestrian traffic; and,

Whereas Durham Regional Police Services support a Community Safety Zone on Raglan Road East;

Therefore, be it resolved:

1. That a Community Safety Zone be implemented on Raglan Road East between Simcoe Street North and a point 300 metres east of Ritson Road North at all times, all days, and all months of the year; and,
2. That the Region be requested to investigate a 40km/hour through the hamlet from Stevenson Road to Simcoe Street; and,
3. That the Region investigate an all-way stop at Stevenson Road and Raglan Road, and;
4. That Durham Regional Police Department conduct enforcement programs in the newly created Community Safety Zones on Raglan Road; and,
5. That staff investigate the use of additional possible traffic-calming resources as found in the newly-adopted Neighbourhood Traffic Management Guide, and consider future road design options that would have a traffic-calming effect and ask the Region of Durham to consider the same; and,
6. That the Region investigate a 4-way stop be put in at Thornton and Raglan Road, West."

Your consideration of this request is appreciated.

If you need further assistance concerning the above matter, please contact Ron Diskey, Commissioner, Community Services Department at the address listed below or by telephone at 905 436-3311.



Racheal Rossetti  
Council-Committee Coordinator

c. Community Services Department

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-28  
Date: June 8, 2022

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**Subject:**

Servicing Agreement with OPB Realty Inc. for the Relocation and Oversizing of a Sanitary Sewer and Watermains from an Easement on Private Property onto Glenanna Road and Pickering Parkway, in the City of Pickering

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**Recommendations:**

That the Works Committee recommends to Regional Council:

- A) That financing estimated at \$689,400 for the Regional Municipality of Durham's share of the construction of sanitary sewers in the City of Pickering be approved;
- B) That the Regional Municipality of Durham be authorized to enter into a servicing agreement with OPB Realty Inc. for the relocation and upsizing of sanitary sewers and watermains in the City of Pickering, including a Regional Share amount estimated at \$689,400 for the oversizing of the sanitary sewer, for an estimated total project cost of \$3,984,480;
- C) That financing for the servicing agreement, including the Regional Share amount, be provided from the following sources:

**OPB Realty Inc. Share – Sanitary Sewer and Watermain**

OPB Realty Inc. Sanitary Sewers	\$1,603,500
OPB Realty Inc. Watermains	<u>\$1,691,580</u>
<b>Total OPB Realty Inc.</b>	<b><u>\$3,295,080</u></b>

**Regional Share – Sanitary Sewer**

2022 Sanitary Sewerage System Capital Budget

Item Number 343 Allowance for Regional Share for works in conjunction with non-residential development (Project ID: M2211):

Commercial Development Charges	\$ 18,400
Residential Development Charges	295,200
User Rates	<u>86,400</u>
	\$400,000

Item Number 344 Allowance for Regional Share for works in conjunction with residential development (Project ID: M2210):

Commercial Development Charges	\$ 13,312
Residential Development Charges	213,578
User Rates	<u>62,510</u>
	\$289,400

**Total Regional Sanitary Sewerage Financing** **\$689,400**

Total Project Costs – Sanitary Sewer and Watermain **\$3,984,480**

- D) That the Acting Commissioner of Works be authorized to execute the necessary documents related to the Servicing Agreement.

## Report:

### 1. Purpose

- 1.1 The purpose of this report is to seek approval to enter into a Servicing Agreement with OPB Realty Inc. (OPB), related to the relocation and oversizing of an existing sanitary sewer, the relocation of an existing feedermain and the upsizing of an existing local watermain onto the Glenanna Road and Pickering Parkway rights-of-way (ROWs), in the City of Pickering, as shown on Attachment #1.

### 2. Background

- 2.1 OPB is moving forward with the first phase of the redevelopment of the Pickering Town Centre as part of their larger City Centre project. OPB has also submitted a draft plan of subdivision to create the internal blocks and local roads within the plan as shown in Attachment 1.
- 2.2 Currently, a sanitary sewer and feedermain are located in an easement within the Pickering Town Centre parking lot. To move forward with the redevelopment plans, these services must be relocated into the adjacent Glenanna Road and Pickering Parkway ROWs.

- 2.3 OPB has requested Regional Municipality of Durham (Region) approval to construct the works through a Servicing Agreement.

### 3. Regional Infrastructure

- 3.1 The existing 450 millimetre (mm) diameter sanitary sewer will be replaced with a new trunk sanitary sewer which will range in size from 675 mm to 1050 mm in diameter. In keeping with the Region Share Policy, OPB will pay for the pipe size required to service their redevelopment plans (450 to 600 mm diameter) and the Region will pay for the oversizing requirements. The oversizing of the sanitary sewer will provide capacity for additional redevelopment and intensification in the area.
- 3.2 The existing 600 mm diameter water supply feedermain requires relocation and does not require any oversizing to service future redevelopment and intensification. In keeping with the Region Share Policy, the full cost of the relocation is the responsibility of OPB.
- 3.3 The existing 200 mm diameter local watermain located in Glenanna Road must be increased to a 300 mm diameter to meet the needs of the planned redevelopment. The cost to increase the size of this local watermain is the responsibility of OPB in accordance with the Regional Share Policy.
- 3.4 All other requirements of the standard Regional Servicing Agreement will be in place, including the posting of a Letter of Credit for 100 per cent of the cost of the works.

### 4. Financial Implications

- 4.1 The estimated total cost of the work is \$3,984,480, and can be financed as follows:

#### **OPB Realty Inc. Share – Sanitary Sewer and Watermain**

OPB Realty Inc. Sanitary Sewers	\$1,603,500
OPB Realty Inc. Watermains	<u>\$1,691,580</u>
<b>Total OPB Realty Inc.</b>	<b><u>\$3,295,080</u></b>

#### **Regional Share – Sanitary Sewer**

2022 Sanitary Sewerage System Capital Budget

Item Number 343 Allowance for Regional Share for works in conjunction with non-residential development (Project ID: M2211):

Commercial Development Charges	\$ 18,400
Residential Development Charges	295,200
User Rates	<u>86,400</u>
	\$400,000

Item Number 344 Allowance for Regional Share for works in conjunction with residential development (Project ID: M2210):

Commercial Development Charges	\$ 13,312
Residential Development Charges	213,578
User Rates	<u>62,510</u>
	\$289,400

**Total Regional Sanitary Sewerage Financing \$689,400**

Total Project Costs – Sanitary Sewer and Watermain **\$3,984,480**

## 5. Relationship to Strategic Plan

5.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:

a. Goal 2: Community Vitality

Priority 2.1 - Revitalize existing neighbourhoods and build complete communities that are walkable, well-connected, and have a mix of attainable housing.

b. Goal 5: Service Excellence

Priority 5.1 - Optimize resources and partnerships to deliver exceptional quality services and value.

## 6. Conclusion

6.1 It is recommended that the Regional Municipality of Durham enter into a Servicing Agreement with OPB Realty Inc. related to the redevelopment of the Pickering Town Centre containing the foregoing cost share provisions.

6.2 This report has been reviewed by the Corporate Services Department – Legal Services and the Finance Department, and the Commissioner of Finance concurs with the financial recommendation.

6.3 For additional information, please contact Paul Gillespie, Manager, Development Approvals, at 905-668-7711 extension 3443.

**7. Attachments**

Attachment #1: Location Plan – Glenanna Road, in City of Pickering

Respectfully submitted,

**Original signed by:**

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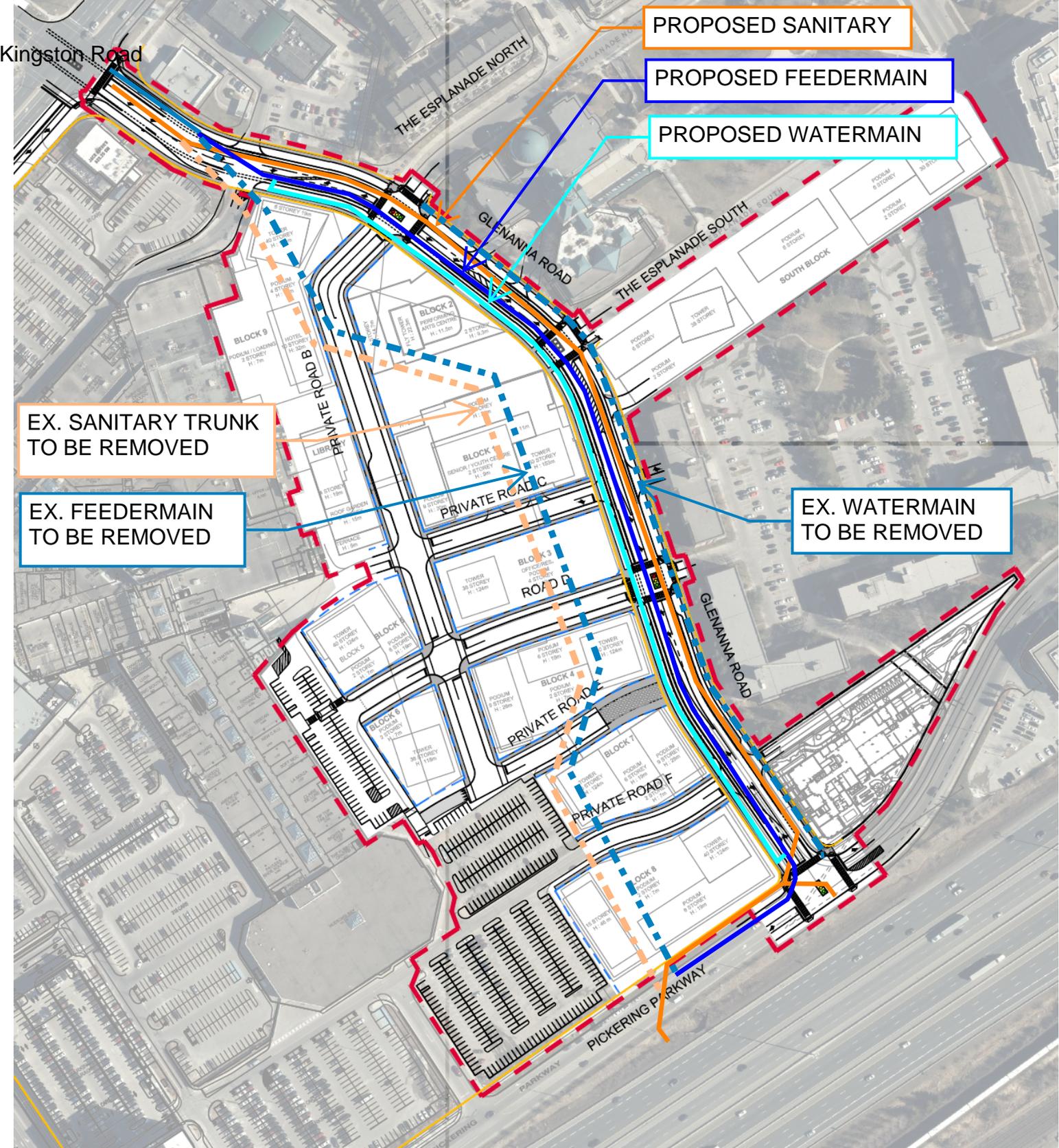
Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer



Attachment #1: Location Plan – Pickering Town Centre Redevelopment



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# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-29  
Date: June 8, 2022

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**Subject:**

Petition for Construction of a Sanitary Sewer system on Meadow Street, in the City of Oshawa

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**Recommendation:**

That the Works Committee recommends to Regional Council that the construction of a sanitary sewer system on Meadow Street, from Avalon Street to Manor Drive, in the City of Oshawa, be considered in the proposed 2023 and 2025 Sanitary Sewerage System Business Plans and Budgets.

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**Report:**

**1. Purpose**

1.1 The purpose of this report is to advise the Regional Municipality of Durham (Region) Council of the results of the sanitary sewer petition to service Meadow Street, from Avalon Street to Manor Drive, in the City of Oshawa (Oshawa).

**2. Background**

2.1 On July 15, 2021, the Region sent out a petition that was initiated by the residents of Meadow Street, from Avalon Street to Manor Drive, in Oshawa, for sanitary sewer service for the fourteen (14) properties abutting Meadow Street (Attachment #1).

2.2 The petition for this area was initiated for sanitary sewer servicing only as watermain servicing was constructed in 2000 in accordance with the Region's Well Interference Policy.

- 2.3 Based on the request of the residents of Meadow Street, the petition is conditional on the road reconstruction project initiated by Oshawa on Meadow Street from Avalon Street to Manor Drive, which is currently forecasted in 2025 as a part of Oshawa's 2023-2031 Capital Forecast.
- 2.4 The governing legislation, Ontario Regulation 586/06, requires that 2/3 (67 per cent) of the property owners representing 50 per cent of the value of the lands, be in favour of the project for the petition to be successful.
- 2.5 Petitioned projects are based on full cost recovery from the landowners benefitting from the construction of the proposed services.

### **3. Previous Reports and Decisions**

- 3.1 There are no previous reports/decisions related to this report.

### **4. Petition Results**

- 4.1 Fourteen (14) individual property owners were sent letters with a request to indicate if they were "in favour" or "not in favour" of the construction of the sanitary sewer system.
- 4.2 The results of the petition were that 71 per cent of the property owners (10 out of 14) representing 71 per cent of the value of the lands were in favour of the construction of the sanitary sewer service system conditional on the road reconstruction project initiated by the City of Oshawa on Meadow Street from Avalon Street to Manor Drive.
- 4.3 The Regional Clerk has certified that the property owners are in favour of the petition.

### **5. Relationship to Strategic Plan**

- 5.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Goal 5: Service Excellence – to provide exceptional value to Durham taxpayers through responsive, effective and fiscally sustainable services delivery.

- Priority 5.1 – Optimize resources and partnerships to deliver exceptional quality services and value.

## 6. Conclusion

- 6.1 The petition for the construction of a sanitary sewer on Meadow Street, in the City of Oshawa, has met the minimum requirements in order to proceed as set out in Ontario Regulation 586/06.
- 6.2 It is recommended that the detailed design for the sanitary sewer system on Meadow Street, in the City of Oshawa, be considered in the proposed 2023 Sanitary Sewerage System Capital Budget and Nine-Year Forecast. It is also recommended that construction of the sanitary sewer system on Meadow Street be considered in the proposed 2025 Sanitary Sewerage System Capital Budget and Nine-Year Forecast.
- 6.3 For additional information, contact: Charlotte Pattee, Development Approvals Engineer, at 905-668-7711, extension 3435.

## 7. Attachments

Attachment #1: Location Plan – Meadow Street Limits of Petition, City of Oshawa

Respectfully submitted,

### Original signed by:

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Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

### Original signed by:

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Elaine C. Baxter-Trahair  
Chief Administrative Officer



PROPOSED SANITARY SEWER

Attachment #1 to Report #2022-W-29

### Attachment #1: Location Plan - Meadow Street



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# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-30  
Date: June 8, 2022

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**Subject:**

Sole Source of Engineering Services for the Rectification of Deficiencies at Port Darlington Water Pollution Control Plant, in the Municipality of Clarington (Bowmanville)

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**Recommendations:**

That Works Committee recommends to Regional Council:

- A) That a sole source contract with CIMA+ for the provision of engineering services for the Port Darlington Water Pollution Control Plant Rectification of Deficiencies project in the amount of \$347,282\* be approved, with financing provided from within the 2022 Sanitary Sewage System Business Plans and Budgets (Project ID: D2216); and
  - B) That the Commissioner of Finance be authorized to execute the professional services agreement and associated amendments.
- 

**Report:**

**1. Purpose**

- 1.1 The purpose of this report is to seek Regional Municipality of Durham (Region) Council approval to award a sole source contract with CIMA+ for engineering services for the rectification of deficiencies at Port Darlington Water Pollution Control Plant (WPCP) in the Municipality of Clarington (Bowmanville).
- 1.2 Dollar amounts followed by an asterisk (\*) are before applicable taxes.

## 2. Background

- 2.1 In 2010, Genivar LP (Genivar) was awarded the engineering services contract for the Port Darlington WPCP Expansion project (Project ID: C0401) through a competitive bidding process.
- 2.2 In 2012, the general construction contractor, Torbear Contracting (Torbear) was awarded the Regional Contract D2012-002 for the construction of the Port Darlington WPCP Expansion project as the lowest compliant bidder. Genivar provided contract administrator services during construction.
- 2.3 In November 2017, the Region issued a Certificate of Substantial Performance to Torbear. A significant number of construction-related deficiencies were identified after the Substantial Performance certificate was issued, which have still not been addressed by Torbear and must be rectified. These deficiencies include major safety issues and intricate process and approvals issues.
- 2.4 The following six (6) main areas of deficiency were identified:
1. Heating, ventilation and air conditioning (HVAC), gas detection system and smoke detectors;
  2. Boiler digester gas feed system;
  3. Plant 2 scum troughs;
  4. Security system;
  5. General construction deficiencies; and
  6. Digester 3 leakage.
- 2.5 An additional issue was identified in the ventilation system in the Digester Control Building as it is connected to the HVAC system in Item 1.
- 2.6 Extensive knowledge of the systems installed under Contract D2012-002 is required to address the deficiencies. Staff from Genivar, including the original design manager and site inspector, who have specific knowledge of Port Darlington WPCP throughout design and construction have since moved to CIMA+.

### **3. Justification for the Sole Source**

- 3.1 CIMA+ has a fulsome understanding of the work area and project scope since the Genivar staff who worked on the project have since moved to CIMA+ and have detailed knowledge of the construction of the project and the deficiencies. This knowledge will benefit the resolution of the deficiencies due to their familiarity with the design and intent of the items that are defective.
- 3.2 For another consulting engineer to investigate the deficiencies and generate recommendations, the knowledge gained, and efforts already undertaken by CIMA+ would be duplicated, and a new engineer may still not achieve a fulsome understanding of the work area and present recommendations on how to rectify the deficiencies. The Region would need to coordinate multiple engineering services assignments, resulting in additional time and resources, which would cause operational challenges to meeting health and safety and regulatory requirements.

### **4. Proposed Consulting Services**

- 4.1 Staff have met with CIMA+ to determine the scope of work to rectify the deficiencies.
- 4.2 The proposed engineering services scope of work will include:
- a. Investigation into each deficiency, including background review, site visits and engaging with equipment suppliers;
  - b. Submission of technical memoranda to present the options to rectify each deficiency and recommend preferred solutions;
  - c. Design drawings and specifications for select well-defined deficiencies (i.e., Plant 2 scum troughs and security system);
  - d. Investigation into the cause of the Digester 3 leak; and
  - e. Ventilation system review in the Digester Control Building, including design drawings and specifications.
- 4.3 The estimated engineering services fee of \$347,282\* includes the following services:
- Project management;

- Meetings and workshops;
- Background review, site visits, coordination with equipment suppliers;
- Development of technical memoranda;
- Development of select design drawings and specifications; and, additional services as required by the project.

## 5. Financial Implications

- 5.1 Section 7.2 of the Region's Purchasing By-law 16-2020 permits the sole sourcing of goods or services under specific circumstances, including where a change of supplier is not recommended due to compatibility/continuity concerns and cost impacts. The by-law requires Regional Council approval for any negotiated purchases of \$100,000 and greater in value.
- 5.2 Financing for the purchase of consulting services estimated at \$347,282\* will be provided from within the following approved project budgets:

2022 Sanitary Sewage Capital Budget

Port Darlington WPCP – work to rectify deficiencies

User Revenue (Project ID: D2216)	<u>\$400,000</u>
Total Financing	<u>\$400,000</u>

## 6. Relationship to Strategic Plan

- 6.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Service Excellence Goal 5.1: Optimize resources and partnerships to deliver exceptional quality services and value.
  - b. Service Excellence Goal #5.4: Drive organizational success through innovation, a skilled workforce and modernized services.

## 7. Conclusion

- 7.1 It is recommended that Regional Municipality of Durham Council authorize a sole source contract with CIMA+ for engineering services for the Port Darlington Water Pollution Control Plant Rectification of Deficiencies project.

7.2 This report has been reviewed by the Legal Services Division of the Corporate Services Department and the Finance Department and the Commissioner of Finance concurs with the financial recommendations.

7.3 For additional information, contact Mike Hubble, Manager, Environmental Services Design, at 905-668-7711 extension 3460.

Respectfully submitted,

**Original signed by:**

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Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-31  
Date: June 8, 2022

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**Subject:**

Sole Source Amendment to an Existing Contract for Additional Engineering Services for the Detailed Design of a Watermain on Liberty Street (Reg Rd 14) and Concession Road 3, in the Municipality of Clarington

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**Recommendation:**

That the Works Committee recommends to Regional Council:

- A) That a sole source amendment to the existing contract with Robinson Consultants Inc. be authorized for costs associated with additional engineering services for the Liberty Street (Regional Road 14) project, from Longworth Avenue to Concession Road 3 roundabout and rehabilitation, in the amount of \$275,190\*, not included in the approved contract upset limit of \$617,554\*, resulting in a revised upset limit not to exceed \$892,744\*; and
  - B) That the Commissioner of Finance be authorized to execute the amendment to the existing engineering services agreement.
- 

**Report:**

**1. Purpose**

- 1.1 The purpose of this report is to seek approval for a sole source agreement amendment with Robinson Consultants Inc (RCI) to increase the upset limit of the engineering services assignment for tasks not included in the original scope of work related to the Liberty Street (Regional Road 14) from Longworth Avenue to Concession Road 3 roundabout and rehabilitation project, in the Municipality of Clarington (Clarington).

1.2 Dollar amounts followed by an asterisk (\*) are before applicable taxes.

## **2. Background**

- 2.1 The Regional Municipality of Durham (Region) advertised Request for Proposal (RFP) #1001-2020 for engineering services to conduct detailed design of road urbanization, roundabout construction, roadway illumination and storm sewers on Liberty Street (Regional Road 14) from Longworth Avenue to Concession Road 3. This project was competitively bid with five engineering firms submitting proposals. RCI supplied the highest scoring compliant proposal and was awarded the design contract.
- 2.2 Part of RCI's scope of work included coordination of the roadway design with a design for the abandonment of an existing redundant 1920's era cast iron watermain on Liberty Street. The watermain abandonment design continues to be managed by Regional staff.
- 2.3 The project limits for RFP #1001-2020 overlap with the limits of two new watermain infrastructure projects. The two watermain infrastructure projects of note are as follows:
- a. Proposed 900 millimetre (mm) diameter Zone 1 feedermain on Concession Road 3 and Liberty Street connecting the existing Bowmanville water distribution system to the future Liberty Street Zone 1 Water Reservoir and Zone 2 Pumping Station project on Liberty Street.
  - b. Proposed 400 mm diameter Zone 2 feedermain on Concession Road 3 from McCorkell Street to approximately 200 metres (m) east of Liberty Street.
- 2.4 The pace of development in north Bowmanville warrants the installation of these watermains as soon as possible to accommodate future growth demands as well as to enable the decommissioning of the existing Zone 1 elevated water storage tank in downtown Bowmanville, which is near the end of its service life.
- 2.5 The Notice of Completion for the Municipal Class Environmental Assessment Addendum for the intersection improvements including the roundabout is expected to be filed in 2022.

- 2.6 The detailed design of the Liberty Street Zone 1 Water Reservoir and Zone 2 Pumping Station is ongoing and is expected to be constructed and operational in 2024. The project requires that the 900 mm Zone 1 feedermain is constructed and in-service for commissioning purposes in 2024.
- 2.7 The project schedule for Liberty Street (Regional Road 14) from Longworth Avenue to Concession Road 3 roundabout and rehabilitation is expected to be tendered in 2023 with construction completion in 2024 which aligns with the timing of the construction of the Liberty Street Zone 1 Water Reservoir and Zone 2 Pumping Station.

### **3. Proposed Additional Engineering Services**

- 3.1 The detailed design of the Zone 1 and Zone 2 feedermain are proposed to be added to RCI's scope of work to allow the watermain scope to be tendered and constructed simultaneously within the limits of road reconstruction.
- 3.2 The section of Zone 1 feedermain north of the road reconstruction limits is also proposed to be included in the scope of work for both the detailed design and construction administration to achieve the required timelines for installation in advance of construction completion of the Liberty Street Zone 1 Water Reservoir and Zone 2 Pumping Station. With this approach, the traffic staging for the feedermain installation on Liberty Street can be coordinated between the two projects, mitigating the duration of construction traffic impacts on residents and roadway users.
- 3.3 RCI has obtained a fulsome understanding of the work area and design drawings have been developed for the roadway reconstruction. For another engineering firm to generate design drawings in the same area, efforts already undertaken by RCI would be duplicated for a new engineer to gain the fulsome understanding of the work area and complete the design.
- 3.4 The Region would need to coordinate multiple engineering services contracts resulting in additional time and resources, which would cause operational challenges to meet regulatory requirements. Additional costs would be incurred related to the duplication of work amongst different design engineers. Staff recommend the sole source amendment to the existing agreement to avoid the additional costs outlined above which would exceed the value of this amendment.

3.5 The estimated engineering services fee of \$275,190\* for the additional scope includes the following additional services:

- Project management;
- Preliminary and detailed design;
- Coordination with the roadway design, which includes a new roundabout at the intersection of Liberty Street and Concession Road 3;
- Construction traffic staging design;
- Contract specification preparation;
- Permitting and approvals with the Local Conservation Authority;
- Geotechnical investigations and reporting;
- Subsurface utility investigations, mapping and coordination for relocations;
- Creek culvert condition inspection and reporting; and
- Additional services as required by the project.

3.6 The total amount of the revised engineering services assignment is \$892,744\*.

#### 4. Financial Implications

4.1 Section 7.2 of the Region's Purchasing By-law 16-2020 permits the sole sourcing of goods or services under specific circumstances, including where additional deliverables were not included in the initial procurement and where a change of supplier is not recommended due to compatibility/continuity concerns and cost impacts. The by-law requires Regional Council approval for any negotiated purchases of \$100,000 and greater in value.

4.2 Financing for the procurement of the additional engineering services in the amount of \$275,190\* is to be provided from within the following approved project budgets:

##### **Water Supply Capital Budget**

Zone 1 feedermain on Lambs Rd. from Hwy No. 2 (King St.) to Zone 1 Liberty Street Reservoir, Bowmanville

Residential Development Charges (Project ID: C1202)	\$206,695
Commercial Development Charges (Project ID: C1202)	6,314
User Rate (Project ID: C1202)	<u>22,181</u>
	<u>\$235,190</u>

Zone 2 Feedermain on 3rd Concession Rd - Middle Road to Mearns Street,  
Bowmanville

Residential Development Charges (Project ID: C0502)	\$35,404
Commercial Development Charges (Project ID: C0502)	883
User Rate (Project ID: C0502)	<u>3,713</u>
	<u>40,000</u>
<b>Total Financing</b>	<b><u>\$275,190</u></b>

## 5. Relationship to Strategic Plan

5.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic plan:

- a. Service Excellence Goal #5.1: Optimize resources and partnerships to deliver exceptional quality services and value.
- b. Service Excellence Goal #5.4: Drive organizational success through innovation, a skilled workforce and modernized services.

## 6. Conclusion

6.1 It is recommended that the sole source agreement amendment with Robinson Consultants Inc. be approved for additional engineering services outside of the original scope of work for the detailed design of the watermain in the amount of \$275,190\* from the previously approved upset limit of \$617,554\*, resulting in a revised upset limit not to exceed \$892,744\*.

6.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the recommendations.

6.3 For additional information, contact: Mike Hubble, Manager of Environmental Services Design, at 905-668-7711, extension 3460.

Respectfully submitted,

**Original signed by:**

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Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-32  
Date: June 8, 2022

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**Subject:**

Approval to Award a Sole Source Agreement for Annual Preventative Maintenance on the Hydroxyl Generator Units installed at Various Locations throughout the Regional Wastewater Systems

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**Recommendation:**

That the Works Committee recommends to Regional Council:

- A) That staff be authorized to negotiate and award a sole source agreement with Purified Air Solutions at an upset limit of \$75,000\* per annum for a term of four years, to provide annual preventative maintenance of the hydroxyl generator units installed at various locations throughout the Regional wastewater systems, to be financed through the annual Sanitary Sewerage Business Plans and Budget; and
  - B) That the Commissioner of Finance be authorized to execute the necessary documents related to this sole source agreement.
- 

**Report:**

**1. Purpose**

- 1.1 The purpose of this report is to obtain Regional Municipality of Durham (Region) Council authorization to execute a sole source agreement with Purified Air Solutions to provide annual preventative maintenance of hydroxyl generator units installed throughout the Regional wastewater systems. Dollar amounts followed by an asterisk (\*) are before applicable taxes.

## **2. Background**

- 2.1 The Pyure Company Inc. has developed a hydroxyl-based technology that is effective at mitigating nuisance odours and corrosive environments within Water Pollution Control Plants (WPCP) and Sanitary Sewage Pumping Stations (SSPS). These hydroxyl generator units have proven to be cost-effective in comparison to competing technologies such as biofilters or activated carbon scrubbers, have a much smaller footprint, and use less electricity and water.
- 2.2 Pyure's hydroxyl generator units are distributed by Purified Air Solutions within Ontario. Prior to February 2021, Purified Air Solutions was known as Hydroxyl Environmental.
- 2.3 In 2014, the Courtice WPCP was experiencing corrosive levels of hydrogen sulphide that were deteriorating copper surfaces within the headworks building. Following an assessment of potential corrective actions, a sole source purchase was awarded to Hydroxyl Environmental (now known as Purified Air Solutions) for the supply of two hydroxyl generator units.
- 2.4 The hydroxyl generator units proved to be very effective at addressing the corrosion. The units were also found to be very effective at mitigating related nuisance odours within the building.
- 2.5 Following the success of the Courtice WPCP application, twenty-five (25) additional hydroxyl generator units were purchased by the Region to address nuisance odours at twelve other locations throughout the Regional wastewater systems.
- 2.6 In 2023, two more hydroxyl generator units are planned to be installed at additional locations on the Regional wastewater systems.

## **3. Previous Reports and Decisions**

- 3.1 On February 24, 2016, Report #2016-W-27 was approved by Regional Council for the sole source purchase of three hydroxyl generator units for the Jeffery Street SSPS in Whitby under Regional Contract D2016-028.

## **4. Justification to Sole Source**

- 4.1 Purified Air Solutions is currently the only company in Canada that can supply and service this type of odour and corrosion control system. All hydroxyl generator

units installed on the Region's systems have been purchased from and are maintained by this vendor.

- 4.2 Preventative maintenance of the hydroxyl generator units is required to ensure the units remain effective at mitigating odours and corrosion. Purified Air Solutions offers preventative maintenance programs that include cleaning the hydroxyl generator unit, bulbs and controller system; as well as testing all electronic controllers and safety devices installed.
- 4.3 Given the number of hydroxyl generator units installed/planned within the Region, it is recommended that a sole source agreement be executed with Purified Air Solutions at an upset limit of \$75,000\* per annum for a term of four years to provide annual preventative maintenance on the units. Replacement of any malfunctioning equipment will also be addressed by the agreement as parts are only available through this vendor. Funding will be provided from the 2022-2025 annual operating budgets.

## **5. Financial Implications**

- 5.1 Section 7.0 of the Region's Purchasing By-law #16-2020 permits the acquisition of goods and services through limited tendering including sole/single source purchases. The by-law requires Regional Council's approval for any negotiated purchase of \$100,000 and greater in value.
- 5.2 Financing for the maintenance of the hydroxyl generator units, estimated at \$75,000\* per annum will be funded from the annual Sanitary Sewerage Business Plans and Budget.

## **6. Relationship to Strategic Plan**

- 6.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a) Service Excellence Goal #5.1: Optimize resources and partnerships to deliver exceptional quality services and value.
  - b) Service Excellence Goal #5.4: Drive organizational success through innovation, a skilled workforce and modernized service.

## **7. Conclusion**

- 7.1 It is recommended that Regional Municipality of Durham Council authorize the sole source negotiation with Purified Air Solutions to provide annual preventative

maintenance on the hydroxyl generator units installed at various locations throughout the Regional wastewater systems.

7.2 This report has been reviewed by the Finance Department.

7.3 For additional information, contact: Rich Tindall, Manager Plant Operations at 905-668-7711, extension 3547.

Respectfully submitted,

**Original signed by:**

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Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 3540.



# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-33  
Date: June 8, 2022

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**Subject:**

Subdivision Agreement with 2103386 Ontario Inc., Including Cost Sharing in Accordance with the Region Share Policy, for the Extension and Oversizing of a Sanitary Sewer in the Municipality of Clarington

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**Recommendation:**

That the Works Committee recommends to Regional Council:

- A) That the Regional Municipality of Durham be authorized to enter into a subdivision agreement with 2103386 Ontario Inc. for the construction of a 750 millimetre sanitary sewer, including cost sharing in accordance with the Regional Municipality of Durham's Regional Share Policy, located at the northwest quadrant of Regional Highway 2 and Ruddell Road in Newcastle, in the Municipality of Clarington, at an estimated total project cost of \$6,335,200; and
- B) That financing for the subdivision agreement be provided from the following sources:

**Developer's Cost – Sanitary Sewers and Watermain**

2103386 Ontario Inc. Sanitary Sewer Funding	\$2,133,420
2103386 Ontario Inc. Watermain Funding	<u>\$2,340,980</u>
<b>Total Developer Costs – Sanitary Sewers and Watermain</b>	<b><u>\$4,474,400</u></b>

**Regional Costs - Sanitary Sewers**

Previously Approved - Sanitary Sewerage System Funding

Wilmot Creek Sanitary Sewer Ruddell Road to King Avenue, Newcastle  
(Project ID: D2007)

Residential Development Charges	\$1,062,720
Commercial Development Charges	\$66,240
User Revenues	<u>\$311,040</u>
Total Previously Approved Funding	\$1,440,000

2022 Sanitary Sewerage System Funding

Item 344 - Allowance for Regional Share for Works in Conjunction with Residential Subdivision Development (Project ID: M2210)

Residential Development Charges	\$310,550
Commercial Development Charges	\$19,358
User Revenues	<u>\$90,892</u>
Total Additional Financing	\$420,800
<b>Total Regional Costs – Sanitary Sewers</b>	<b><u>\$1,860,800</u></b>
<b>Total Project Costs – Sanitary Sewers and Watermain</b>	<b><u>\$6,335,200</u></b>

**Report:****1. Purpose**

- 1.1 The purpose of this report is to seek approval to enter into a subdivision agreement with 2103386 Ontario Inc., including cost-sharing in accordance with the Regional Municipality of Durham (Region) Share Policy related to the construction of a sanitary sewer located within the subdivision in Newcastle, in the Municipality of Clarington (Clarington), as shown In Attachment #1.

**2. Background**

- 2.1 2103386 Ontario Inc. is proposing to develop their property, located at the northwest quadrant of Regional Highway 2 and Ruddell Road in Newcastle, in Clarington. The Developer is proposing a 489-unit subdivision, known as the

Foster Creek West subdivision, which requires the extension of a sanitary sewer for servicing.

- 2.2 The Region requested that the limits of the new sanitary sewer be increased to accommodate the future development of upstream lands.

### 3. Previous Reports and Decisions

- 3.1 Works Committee Report #2021-W-13, approved by Regional Council on April 28, 2021, authorized cost sharing in accordance with the Regional Share Policy for the first phase of this sanitary sewer extension, south of King Avenue.

### 4. Regional Infrastructure

- 4.1 To service the 2103386 Ontario Inc. property, the Region requires that a 750 millimetre (mm) sanitary sewer be constructed within the subdivision, as shown on Attachment #1. The sanitary sewer will service the Foster Creek West subdivision and has been sized to accommodate the future development of upstream lands.
- 4.2 The Region's Share Policy generally states that the developer is responsible to pay for the construction of all Regional infrastructure needed to service their lands. The Region is responsible for the balance of the costs, including the oversizing of pipes. In this case, 2103386 Ontario Inc. would be responsible to pay 100 percent of the cost to construct a 300 mm sanitary sewer, which is the minimum size required by the development. The Developer's Cost also includes the responsibility to fund all other sanitary sewers and watermains required to service the subdivision. The Region would be responsible to pay for the cost of oversizing the sanitary sewer to a 750 mm diameter.
- 4.3 All other requirements of the Regional subdivision agreement will be in place, including the posting of a letter of credit for the works, Regional inspection requirements and the two-year infrastructure maintenance period.

### 5. Financial Implications

- 5.1 The cost of the work, including engineering, contingencies, and tax, is estimated as follows:

#### **Developer's Cost – Sanitary Sewers and Watermain**

2103386 Ontario Inc. Sanitary Sewer Funding	\$2,133,420
2103386 Ontario Inc. Watermain Funding	<u>\$2,340,980</u>

<b>Total Developer Costs – Sanitary Sewers and Watermain</b>	<b><u>\$4,474,400</u></b>
<b>Regional Costs - Sanitary Sewers</b>	
<u>Previously Approved - Sanitary Sewerage System Funding</u>	
Wilmot Creek Sanitary Sewer Ruddell Road to King Avenue, Newcastle (Project ID: D2007)	
Residential Development Charges	\$1,062,720
Commercial Development Charges	\$66,240
User Revenues	<u>\$311,040</u>
Total Previously Approved Funding	\$1,440,000
<u>2022 Sanitary Sewerage System Funding</u>	
Item 344 - Allowance for Regional Share for Works in Conjunction with Residential Subdivision Development (Project ID: M2210)	
Residential Development Charges	\$310,550
Commercial Development Charges	\$19,358
User Revenues	<u>\$90,892</u>
Total Additional Financing	\$420,800
<b>Total Regional Costs – Sanitary Sewers</b>	<b><u>\$1,860,800</u></b>
<b>Total Project Costs – Sanitary Sewers and Watermain</b>	<b><u>\$6,335,200</u></b>

## 6. Relationship to Strategic Plan

- 6.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Community Vitality Goal 2.1: Revitalize existing neighbourhoods and build complete communities that are walkable, well-connected, and have a mix of attainable housing.
  - b. Service Excellence Goal 5.1: Optimize resources and partnerships to deliver exceptional quality services and value.

**7. Conclusion**

- 7.1 It is recommended that the Regional Municipality of Durham enter into a subdivision agreement with 2103386 Ontario Inc. containing the foregoing provisions.
- 7.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the financial recommendation.
- 7.3 For additional information, please contact Jeff Almeida, Development Approvals Supervisor, at 905-668-7711, extension 3721.

**8. Attachments**

Attachment #1: Location Plan – Foster Creek West Subdivision

Respectfully submitted,

**Original signed by:**

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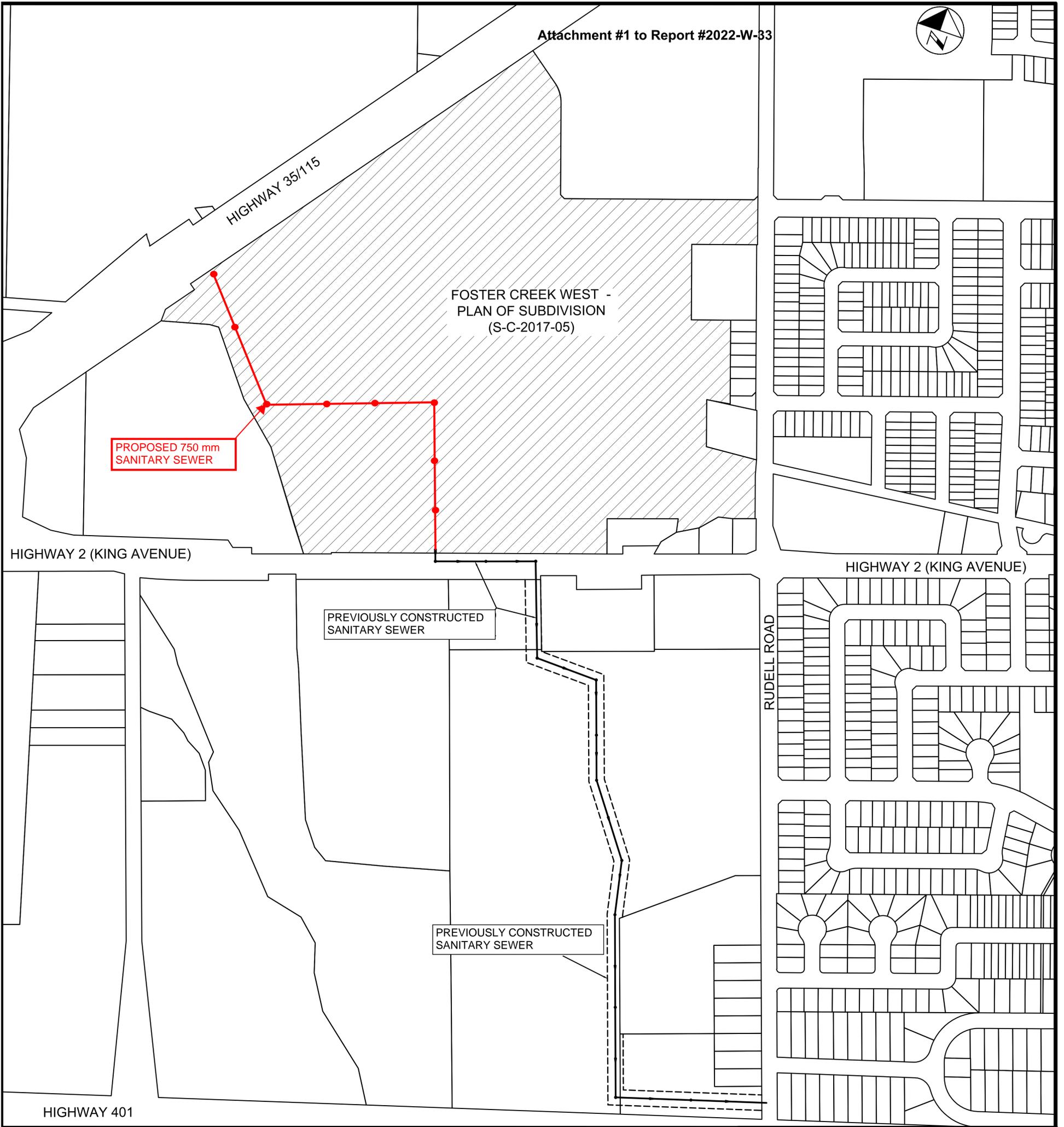
Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer

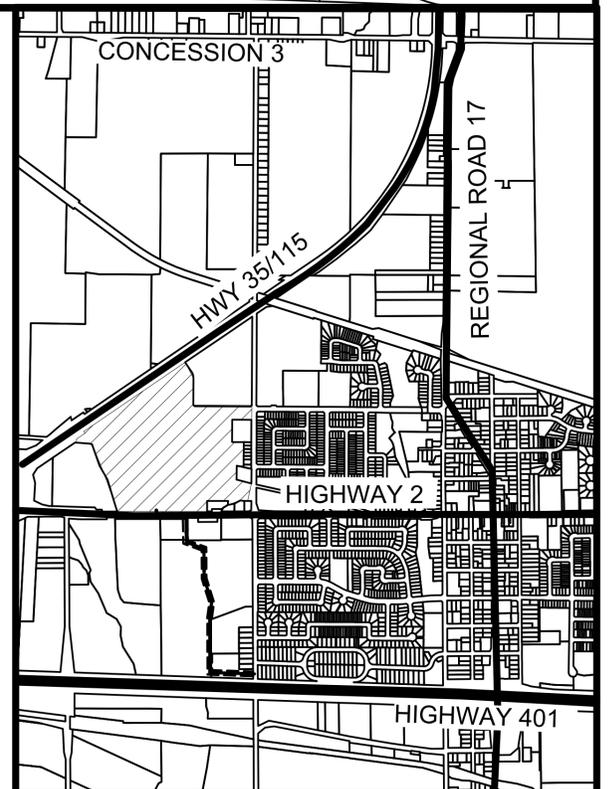


### Attachment #1:



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# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-34  
Date: June 8, 2022

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**Subject:**

Approval of Unbudgeted Capital Work and Related Financing to Undertake the Geotechnical Investigations, Subsurface Utility Investigations and Detailed Design for the Watermain Replacement on Belton Court, in the Town of Whitby, and Watermain Replacement on Mary Street, in the City of Oshawa

---

**Recommendations:**

That Works Committee recommends to Regional Council:

- A) That unbudgeted capital work in the amount of \$90,000\* for the geotechnical investigations, subsurface utility investigations and detailed design for the watermain replacement on Belton Court, in the Town of Whitby be approved;
- B) That financing for the unbudgeted capital work for the watermain replacement on Belton Court, in the Town of Whitby, be provided as follows:

2022 Water Supply Capital Budget

Item 3: Allowance for unknown requirements in conjunction with area municipality road programs in various locations  
(Project ID: M2203)

User Revenue	\$90,000
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- C) That unbudgeted capital work in the amount of \$65,000\* for subsurface utility investigations and detailed design for the watermain replacement on Mary Street from Rossland Road East to 150m north of Robert Street, in the City of Oshawa, be approved; and

- D) That financing for the unbudgeted capital work for the watermain replacement on Mary Street from Rossland Road East to 150m north of Robert Street, in the City of Oshawa, be provided as follows:

2022 Water Supply Capital Budget

Item 102: Replacement of watermain on R.R.56 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa (Project ID: O1701)

Asset Management Reserve Fund

\$65,000

**Report:**

**1. Purpose**

1.1 The purpose of this report is to obtain Regional Municipality of Durham (Region) Council approval for funding for unbudgeted capital work for the geotechnical investigations, subsurface utility investigations and detailed design for the watermain replacement on Belton Court, in the Town of Whitby (Whitby), and for the watermain replacement on Mary Street, from Rossland Road East to 150 metres (m) north of Robert Street, in the City of Oshawa (Oshawa).

1.2 All dollar amounts contained in this report are before applicable taxes.

**2. Background**

2.1 The 450 millimetre (mm) ductile iron (DI) watermain on Belton Court was constructed in 1975. The watermain services a combination of residential and commercial customers in Whitby.

2.2 There has been a total of nine breaks on this watermain in various locations. In the past year there were four breaks in close proximity to each other. The recent breaks are disruptive and have identified significant structural deficiencies and as such the replacement of this section of the watermain is required.

2.3 The existing watermain on Mary Street, from Rossland Road East to 150 m north of Robert Street, is comprised of cast iron (CI) and DI pipe constructed in 1947, 1961 and 1978. The watermain services residential customers in Oshawa.

2.4 There have been 25 breaks in various locations of the watermain on Mary Street. Four of these breaks have occurred since January 2022. These breaks are disruptive and demonstrate significant structural deficiencies with the existing watermain and replacement is required.

**3. Unbudgeted Capital Feeder Watermain Replacement Justification**

- 3.1 During repairs to these watermains, Regional Maintenance Operations staff have noted that the existing pipes are in very poor condition and require replacement as soon as possible.
- 3.2 The watermain on Belton Court is a 450 mm diameter ductile iron pipe, which is no longer a standard pipe material or size used by the Region. The Region's supply of non-standard materials for pipe repairs is diminishing and future repairs may necessitate emergency replacement of the affected pipe sections with new pipe with each future break. The incremental replacement of short sections of watermains does not result in a stable product that can be relied on to last as long as a traditional complete watermain replacement project.
- 3.3 The watermain on Mary Street has undergone several emergency repairs in 2022 alone. During these repairs, it has been reported that lead services are present. The replacement of the watermain will address the issue of water supply interruptions and provide the opportunity to replace lead services with copper from the main to the property line.
- 3.4 To have the contract documents ready for the 2023 construction season, the site investigations and detailed design will need to commence in the summer of 2022.

#### **4. Financial Implications**

- 4.1 Section 14.2 of the Budget Management Policy requires the approval of the Treasurer and C.A.O., and the applicable Standing Committee and Regional Council to approve unbudgeted capital project expenditures in excess of \$50,000.

- 4.2 Financing for the watermain replacement on Belton Court in Whitby will be provided from within the following approved project budget:

2022 Water Supply Capital Budget

Item 3: Allowance for unknown requirements in conjunction with area municipality road programs in various locations (Project ID: M2203)

User Revenue	\$90,000
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- 4.3 Financing for the watermain replacement on Mary Street, in Oshawa will be provided from within the following approved project budget:

2022 Water Supply Capital Budget

Item 102: Replacement of watermain on R.R.56 (Farewell St.) from Canadian National Railway to Bloor St., Oshawa (Project ID: O1701)

Asset Management Reserve Fund \$65,000

## 5. Relationship to Strategic Plan

5.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic Plan:

- a. Service Excellence Goal 5.1: Optimize resources and partnerships to deliver exceptional quality services and value.
- b. Service Excellence Goal 5.2: Collaborate for a seamless service experience

## 6. Conclusion

6.1 Staff recommends the approval of unbudgeted capital works to complete the geotechnical investigations, subsurface utility investigations and detailed design for the watermain replacement on Belton Court, in the Town of Whitby, and for the watermain replacement on Mary Street, from Rossland Road East to 150 metres north of Robert Street, in the City of Oshawa

6.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the financial recommendations.

6.3 For additional information, contact: Mike Hubble, Manager, Environmental Services Design, at 905-668-7711 extension 3460.

Respectfully submitted,

### Original signed by:

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Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

### Original signed by:

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Elaine C. Baxter-Trahair  
Chief Administrative Officer

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# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-35  
Date: June 8, 2022

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**Subject:**

Approval of Capital Works and Financing to be Incorporated into a Servicing Agreement with Garrard Limited Partnership GP Inc., Garrard Limited Partnership, Garrard Coinvest Limited Partnership GP Inc. and Garrard Coinvest Limited Partnership, Including Cost Sharing in Accordance with the Region Share Policy, for the construction of a 600 millimetre Watermain, in the Town of Whitby

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**Recommendations:**

That the Works Committee recommends to Regional Council:

- A) That unbudgeted capital works and financing estimated at \$1,500,000 for the Region share of the construction of a 600 millimetre watermain, in the Town of Whitby, be approved;
- B) That the Regional Municipality of Durham be authorized to enter into a Servicing Agreement with a Region Share payment to Garrard Limited Partnership GP Inc., Garrard Limited Partnership, Garrard Coinvest Limited Partnership GP Inc. and Garrard Coinvest Limited Partnership estimated at \$1,500,000 for the construction of a 600 millimetre watermain, in the Town of Whitby; and
- C) That financing for the servicing agreement be provided by reallocation of funding from the following sources:

**Regional Costs – Watermain**

## 2022 Water Supply System Capital Budget

Item 155: Zone 3 feedermain on Anderson St. and Watford St. from Clair Ave. to Carnwith Dr., Whitby Region's share (Project ID: D2203)

Residential Development Charges	\$1,314,000
Commercial Development Charges	\$33,000
User Rate	<u>\$153,000</u>
Total Regional Costs	\$1,500,000
<b>Total Project Financing</b>	<b><u>\$1,500,000</u></b>

**Report:****1. Purpose**

- 1.1 The purpose of this report is to obtain approval for unbudgeted capital work and financing including cost sharing in accordance with the Regional Municipality of Durham's (Region) Share Policy, related to the construction of a 600 millimetre (mm) watermain, in the Town of Whitby (Attachment #1).

**2. Background**

- 2.1 The Region has requested that Garrard Limited Partnership GP Inc., Garrard Limited Partnership, Garrard Coinvest Limited Partnership GP Inc. and Garrard Coinvest Limited Partnership construct a 600 mm watermain from Conlin Road to the north limit of the subject site on Garrard Road (Attachment #1) to extend services to the north limit of their site to facilitate sequential development to the north in accordance with Section 1(b) of the Region Share Policy. This watermain will be constructed fully at the Region's expense in keeping with the Region's Share Policy, which generally requires the developer to pay for the works required to service the subject development, with the Region responsible for the balance of the cost.
- 2.2 Garrard Limited Partnership GP Inc., Garrard Limited Partnership, Garrard Coinvest Limited Partnership GP Inc. and Garrard Coinvest Limited Partnership has paid to have a local 300 mm watermain extended along Conlin Road to service their site through a separate Servicing Agreement.
- 2.3 The Region is required to pay the cost to construct the 600 mm diameter watermain abutting the western frontage of the site that will connect to a 900 mm diameter watermain being constructed as a part of an approved capital project.

- 2.4 Regional staff do not have standing authority to approve cost sharing for Servicing Agreements. As this is a Servicing Agreement, Regional Council approval is required for the Region Share payments.
- 2.5 All other requirements of the Regional Servicing Agreement will be in place, including the posting of a Letter of Credit for 100 per cent of the cost of the works, Regional inspection requirements and the two-year infrastructure maintenance period.

### 3. Previous Reports and Decisions

- 3.1 There are no previous reports/decisions related to this report.

### 4. Financial Implications

- 4.1 Section 14.2 of the Budget Management Policy requires Regional Council approval for unbudgeted capital asset expenditures and financing for amounts in excess of \$50,000.
- 4.2 Financing of \$1,500,000, for the cost of construction of the 600 mm watermain can be provided by reallocation of funding as follows:

#### Regional Costs – Watermain

##### 2022 Water Supply System Capital Budget

Item 155: Zone 3 feedermain on Anderson St. and Watford St. from Clair Ave. to Carnwith Dr., Whitby Region's share (Project ID: D2203)

Residential Development Charges	\$1,314,000
Commercial Development Charges	\$33,000
User Rate	<u>\$153,000</u>
Total Regional Costs	\$1,500,000

**Total Project Financing** **\$1,500,000**

- 4.3 Financing for Item 155 will be re-budgeted as a part of the 2023 budget process.

### 5. Relationship to Strategic Plan

- 5.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Goal 5 – Service Excellence

- To provide exceptional value to Durham taxpayers through responsive, effective and fiscally sustainable services delivery.
- Optimize resources and partnerships to deliver exceptional quality services and value.

## 6. Conclusion

- 6.1 It is recommended that the Regional Municipality of Durham enter into a Servicing Agreement with Garrard Limited Partnership GP Inc., Garrard Limited Partnership, Garrard Coinvest Limited Partnership GP Inc. and Garrard Coinvest Limited Partnership containing the foregoing provisions and that the capital works be approved as identified in the report.
- 6.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the financial recommendation.
- 6.3 For additional information, contact: Charlotte Pattee, Development Approvals Engineer, at 905-668-7711, extension 3435.

## 7. Attachments

Attachment #1: Location Plan

Respectfully submitted,

### Original signed by:

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Jenni Demanuele, CPA, CMA  
Acting Commissioner of Works

Recommended for Presentation to Committee

### Original signed by:

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Elaine C. Baxter-Trahair  
Chief Administrative Officer



SITE

600mm WATERMAIN

300mm LOCAL WATERMAIN

900mm CPP WATERMAIN



Attachment #1: Location Plan – Garrard Limited Partnership GP Inc.



This map has been produced from a variety of sources. The Region of Durham does not make any representations concerning the accuracy, likely results, or reliability of use of the materials. The Region disclaims all representation and warranties. MPAC and all its suppliers. All rights reserved. Not a plan of Survey

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# The Regional Municipality of Durham Report

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To: Works Committee  
From: Acting Commissioner of Works  
Report: #2022-W-36  
Date: June 8, 2022

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**Subject:**

Sole Source Procurement of Additional Engineering Services for Construction Inspection for Complex Capital Construction Projects

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**Recommendation:**

That the Works Committee recommends to Regional Council:

- A) That staff be authorized to obtain sole source proposals and amend existing contracts with engineering consultants providing detailed design services for the provision of engineering and inspection services required during the construction of capital works containing complex construction techniques; and
  - B) That the Commissioner of Finance be authorized to execute amendments to existing engineering services agreements.
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**Report:**

**1. Purpose**

- 1.1 The purpose of this report is to request approval to execute sole source contract amendments with engineering consulting firms undertaking the detailed design work to provide specialty construction inspection services for projects that require complex construction techniques as listed in Attachment #1. The values shown within Attachment #1 for inspection services are estimates only. For each project, a proposal will be required to be submitted for review and scrutinized to ensure good value for the services provided.

## **2. Background**

- 2.1 The Regional Municipality of Durham (Region) advertises Request for Proposals for engineering services to conduct the detailed design of bridge structures, watermains and sanitary sewers.
- 2.2 The scope of work for detailed design assignments is typically based on conceptual designs and the construction methodologies are not determined at the conceptual design phase.
- 2.3 In 2022, the Works Department is scheduled to tender approximately seven Regional infrastructure projects which require complex tunnelling as part of the construction work. These projects, which support areas of growth and development, will be implemented concurrently.
- 2.4 In addition, the 2022 Water Supply and Sanitary Sewerage Business Plans and Budgets contain several projects to be implemented over the next five years which will also require complex tunnelling work during construction.
- 2.5 In 2022, the Works Department is also scheduled to tender one Regional bridge replacement project which requires structural construction expertise, in addition to staging and coordination with Canadian Pacific Railway (CPR) in order to facilitate bridge removals and new construction within the railway right-of-way.
- 2.6 The 2022 Budget Property Tax Business Plans and Budgets contain several bridge replacement or rehabilitation projects to be implemented over the next five years which will also require complex construction techniques, coordination with external stakeholders and specialized structural expertise during construction.
- 2.7 Engineering consultants have been retained for most of these projects already for completion of the detailed design work.
- 2.8 Where permits are required, regulatory agencies and/or stakeholders such as railways, conservation authorities and the Ministry of Transportation commonly include mandatory conditions for full-time inspection services of experienced geotechnical engineers of record and/or specialty construction inspectors within their permits.

## **3. Proposed Engineering Services**

- 3.1 The Region does not have geotechnical engineers or structural construction inspectors on staff. Some of the construction technologies being proposed are

also relatively new. There is a limited pool of inspection staff experienced in specialty construction methodologies such as tunnelling or micro tunnelling, girder launching, accelerated/rapid bridge replacement, or complex bridge jacking for bearing replacements.

- 3.2 Consultants who specialize in the detailed design using these construction methods commonly employ construction inspection staff who are experienced with these specialty construction technologies.
- 3.3 Engineering consulting staff who complete detailed designs of projects, as well as the supporting background reports, inherently become intimate with the specific details, site constraints and technological needs of individual projects. As such, detailed design team members are required to review pre-construction submittals from contractors to ensure conformance of the means and methods for construction with the detailed design document intent and requirements.
- 3.4 The project knowledge retained by the detailed design staff provides significant benefits to the construction inspection staff deployed on the project from the perspectives of contractual continuity, knowledge transfer and resolution of site-specific issues and changed ground conditions sometimes experienced during construction.
- 3.5 As projects progress through detailed design, staff will assess inspection experience and resources available within the Works Department for the specific projects, as well as the personnel related conditions required by regulatory agencies and/or stakeholders for permits issued for each site-specific location. When there is a requirement for speciality construction inspection services from the engineering consultant providing detailed design services during construction, a sole source proposal will be requested.
- 3.6 Over the next five years, the Region's complement of construction inspection staff will gain experience in overseeing specialty construction techniques which may allow the Region to undertake some of these inspection roles in-house.

#### **4. Financial Implications**

- 4.1 Section 7.2 of the Region's Purchasing By-law permits the sole sourcing of goods and services under specific circumstances, including where additional deliverables were not included in the initial procurement and where a change of supplier is not recommended due to compatibility/continuity concerns and cost impacts.

4.2 The funding for the additional commitments to the existing engineering services agreements will be provided from within the approved capital project budgets. The engineering firms noted on the attachment have been procured through normal procurement practices for the design portion of the work. If increases to project budgets are required, staff will seek authorization for additional financing in accordance with the Region's Budget Management Policy on a case-by-case basis in advance of executed amendments to existing engineering services agreements.

## **5. Relationship to Strategic Plan**

5.1 This report aligns with the following strategic goals and priorities in the Durham Region Strategic plan:

a. Goal 5 – Service Excellence

## **6. Conclusion**

6.1 It is recommended that sole source contract amendments with engineering consultants providing detailed design for projects that contain complex construction techniques to provide specialty construction inspection services be approved.

6.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the recommendations.

6.3 For additional information, contact: Mike Hubble, Manager of Environmental Services Design, at 905-668-7711, extension 3460.

**7. Attachments**

Attachment #1 – Projects with Complex Construction Techniques

Respectfully submitted,

**Original signed by:**

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Jenni Demanuele  
Acting Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer

Summary Table of Projects with Specialized Construction Scope and Retained Consultant Scope of Work Does Not Include Construction Phase Services

Project ID	Project	Specialized Construction Scope	Design Consultant	Upset Limit of Design Agreement	Estimated Construction Contract Value	Estimated Contract Value of Contract Admin / Inspection Services **	Project Status	MTO Crossing	Rail Crossing	Water Crossing
1	D2021-22 Brock Road Central Duffins Collector (Taunton North) - Pickering - Oshawa	1200mm TSS by Tunnel – 1.65km length	R.V. Anderson	\$425,673.00	\$14.7M	\$496,300	Tender Awarded Spring 2022 Construction	No	No	Yes
2	D2021-30 Albert Street 401 Crossing – Oshawa	600mm CPP WM in 1500mm Liner by Tunnel – 100m length	WSP Canada	\$278,897.00	\$3.5M	\$33,000	Tender Awarded Spring 2022 Construction	Hwy 401	No	No
3	D2021-43 CTSS Ph3 – Courtice	400mm CPP WM in 1500mm Liner by Tunnel (42m length) & 1800mm TSS by Tunnel (1.64km length)	WSP Canada	\$1,102,392.25	\$36.4M	\$839,200	Tender Awarded Spring 2022 Construction	No	Yes – CP*	No
4	D2022-29 RR57/Hwy 2 Reconstruction, Includes 400mm Sanitary Sewer – Bowmanville	400mm Sani in 1500mm Liner by Tunnel – 60m length	CIMA+ and WSP Canada (formerly Golder Associates)	CIMA+ \$ 160,536.25 WSP \$99,618	\$10.4M	CIMA+ \$30,000 WSP \$46,800	Tendering April 2022 Summer 2022 Construction	No	Yes – CP*	No
5	D2022-19 Thorah Conc Rd 5 Watermain – Beaverton	400mm CPP WM in 1500mm Liner by Tunnel – 50m length	Hatch and GeoPro	Hatch \$58,989 GeoPro \$64,839	\$2.6M	Hatch \$20,000 GeoPro \$20,000	Tendering June 2022 Summer/Fall 2022 Construction	No	Yes – CN*	No
6	D2022-36 Liverpool Forcemain – Pickering	900mm in 1500mm Liner by Tunnel – 420m length	GHD	\$1,047,213.50	\$11.6M	\$50,000	Design 100% Complete Spring 2022 Tender	No	No	Yes
7	D2022-16 Decommissioning Merritt Street Tunnel – Oshawa	Pressure Grouting Existing 1200mm Diameter Steel Casing Under Hwy 401	R.V. Anderson	\$73,582.50	\$1.1M	\$24,000	Design 95% Complete Summer 2022 Tender	Hwy 401	No	No
8	D2022-17 Bowmanville Zone 1 Feedermain Phase 1	200mm and 900mm WM in 2100mm Liner by Tunnel and 200mm WM by HDD - 175m length	GHD	\$606,178	\$11.0M	\$50,000	Design 90% Complete Summer 2022 Tender	No	No	Yes
10	D2023-xx Bowmanville Zone 1 Feedermain Phase 3	900mm WM in 1500mm Liner by Tunnel – 40m length	Robinson Consultants (pending Council Approval)	\$529,636	\$11.0M	\$30,000	Design 30% Complete 2023 Tender	No	No	Yes
11	Lord Elgin Sanitary Sewer - Ajax	CIPP re-lining of existing trunk sanitary sewers from Harwood Avenue through Lord Elgin Park	CIMA+	\$230,051.10	\$2.5M	\$25,000	Design 90% Complete Winter 2023 Tender	No	No	No
12	Conlin Road Zone 3 Feedermain Contract 2 – Oshawa	900mm CPP WM in 1500mm Liner by Tunnel – 350m length	AECOM	Estimated \$300,000	\$8.0M	\$50,000	Design 30% Complete Summer 2023 Tender	No	No	Yes
13	Conlin Road Zone 3 Feedermain Contract 3 – Oshawa	900mm CPP WM in 1500mm Liner by Tunnel – 100m length	AECOM	Estimated \$400,000	\$10.0M	\$25,000	Design 30% Complete Fall 2024 Tender	No	No	Yes
14	Courtice Trunk Sanitary Sewer Ph4 - Courtice	1800mm TSS by Tunnel – 3.3km length	WSP Canada	\$989,586.00	\$47.7M	\$300,000	Design 30% Complete Fall 2023 Tender	No	No	Yes
15	Courtice Trunk Sanitary Sewer Ph5 – Courtice	1800mm TSS by Tunnel – 2.1km length	WSP Canada		\$16.1M	\$300,000	Preliminary Design Complete Summer 2025 Tender	No	No	Yes
16	SE Bowmanville TSS Phase 1	1200mm TSS by Tunnel - 1.0 km length	R.V. Anderson	\$993,407.45	\$15M	\$300,000	Design 30% Complete Fall 2023 Tender	Hwy 401*	Yes – CN*	No
17	Hwy 412 West Whitby EMP Lands TSS - Whitby	450mm TSS in 1200mm Liner – 800m length	R.V. Anderson	\$2,325,916	\$8M	\$300,000	Design 30% Complete Fall 2023 Tender	Hwy 412*	No	Yes
18	Foster Creek / Sunset Blvd TSS - Newcastle	1200mm TSS by Tunnel	AECOM and WSP Canada (formerly Golder Associates)	AECOM \$59,900 Golder \$64,220	\$10M	AECOM \$20,000 Golder \$20,000	Design 60% Complete Summer 2023 Tender	No	No	No

## Summary Table of Projects with Specialized Construction Scope and Retained Consultant Scope of Work Does Not Include Construction Phase Services

Project ID	Project	Specialized Construction Scope	Design Consultant	Upset Limit of Design Agreement	Estimated Construction Contract Value	Estimated Contract Value of Contract Admin / Inspection Services **	Project Status	MTO Crossing	Rail Crossing	Water Crossing
19	D2022-32 Cochrane Street over CPR Bridge Replacement	Bridge reconstruction over railway	R.V. Anderson	\$530,140	\$6.7M	\$150,000	Design 90% Complete Summer 2022 Tender	No	Yes – CP	No
20	Beaver River Bridge Replacement	Bridge reconstruction over waterway	TBD	Estimated \$350,000	\$5.5M	\$100,000	Design to begin 2022 Proposed 2025 Construction	No	No	Yes
21	Whites Road Extension over West Duffins Creek	New bridge construction, including girder launching	CH2M Hill	\$3,223,255	\$94M	\$500,000	Design 30% Underway 2026 Tender	No	No	Yes

\* Designates that Stakeholder Agency has/will be expected to mandate Consultant construction phase oversight as part of Permit / Approval process

\*\*The values shown for Contract Administration / Inspection Services are estimates only. For each project, a proposal will be required to be submitted for review and scrutinized to ensure good value for the services provided.