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The Regional Municipality of Durham Report

To: Works Committee
From: Commissioner of Works
Report: #2024-W-19
Date: June 5, 2024

Subject:

Local Watermain Extension related to Well Interference for Contract D2021-43 Courtice Trunk Sanitary Sewer and Watermain Installation (Phase 3) and Baseline Road Reconstruction in the Municipality of Clarington

Recommendation:

That the Works Committee recommends to Regional Council:

- A) That the extension of approximately 170 metres of 300-millimetre polyvinyl chloride watermain be approved due to well interference on Marnie Drive, from Baseline Road north 110 metres to Cigas Road, and on Cigas Road, from Marnie Drive to 60 metres east, in the Municipality of Clarington.
 - B) That financing for the unbudgeted capital work in the amount of \$388,566 be provided from Well Interference – Water Development Charges from within the approved capital budget (Project ID D1303).
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Report:

1. Purpose

- 1.1 The purpose of this report is to obtain Regional Council approval as per Section 4. f) of the Regional Municipality of Durham's (Region) Well Interference Policy for the extension of approximately 170 metres (m) of a 300 millimetre (mm) diameter polyvinyl chloride (PVC) watermain on Marnie Drive, from Baseline Road north 110 m to Cigas Road, and on Cigas Road, from Marnie Drive to 60 m east, as post construction provisions (Attachment #1).

2. Background

- 2.1 The ongoing Regional Capital Contract D2021-43 includes the following Regional infrastructure:
 - a. An 1800 mm diameter trunk sanitary sewer (Phase 3) installation on Baseline Road from Courtice Road (Regional Road 34) to Trulls Road and on Trulls Road from Baseline Road to the south of Bloor Street (Regional Road 22);
 - b. A 400 mm diameter feedermain installation on Baseline Road from Courtice Road (Regional Road 34) to Trulls Road; and
 - c. A 300 mm diameter watermain installation on Trulls Road from Baseline Road to south of Bloor Street (Regional Road 22).
- 2.2 Contract D2021-43 was awarded to Pachino Construction Co. Ltd. in March 2022 for a total contract value of approximately \$36,200,000.
- 2.3 Construction started in the Spring of 2022, and Regional infrastructure on Baseline Road was completed in the Fall of 2023. The remaining work on Trulls Road is ongoing and is anticipated to be completed by the end of 2024.
- 2.4 The trunk sanitary sewer on Baseline Road was installed by open-cut excavation and is up to 9.5 m deep near Marnie Drive.
- 2.5 Region staff have assessed and concluded that four private wells may have been impacted by the construction of the trunk sanitary sewer on Baseline Road near Marnie Drive. As such, staff followed and implemented the provisions of the Well Interference Policy during and post-construction.
- 2.6 The Well Interference Policy is an attachment to the Regional Development Charge Background Study and Development Charge By-Law #42-2023.
- 2.7 Three properties where private wells may have been impacted by construction have had frontage and connection charges waived as per the Well Interference Policy. These three Property Owners fronting Baseline Road have since connected to the Regional watermain.
- 2.8 The remaining property on which the private well may have been impacted by construction requires a local watermain extension on Marnie Drive and Cigas Road to extend a new water service to the property. The local watermain extension is in conformance with Region Design Standards and related

development servicing policies. The watermain extension would also facilitate the future servicing of other properties fronting Cigas Road.

- 2.9 The local watermain extension consists of approximately 110 m of 300 mm diameter PVC watermain on Marnie Drive, from Baseline Road north to Cigas Road, and on Cigas Road, from Marnie Drive to 60 m east. The total length of watermain extension is 170 m.
- 2.10 Region staff have obtained a quotation from Pachino Construction Co. Ltd. to perform this watermain extension work as a change order to contract D2021-43. The estimated construction cost for this work is \$388,566, excluding HST.
- 2.11 Section 4. f of the Region's Well Interference Policy stipulates that Council approval is required for well interference work that exceeds \$250,000.

3. Financial Implications

- 3.1 Section 16.1 of the Region's Budget Management Policy notes that for capital expenditures anticipated to exceed contract with available project funding, the Department Head is authorized to make commitments to contractors performing extra work under a contract where such commitments do not increase the approved contract value in excess of \$3,000,000 to a maximum value of the lesser of five per cent of the approved contract value or \$400,000.
- 3.2 Financing for the additional commitments will address the remaining Well Interference work and can be provided from the following source:

Previously approved financing Project ID D1303 'Phase 3 Courtice Trunk Sanitary Sewer and Watermain Construction and Baseline Road Reconstruction, Project ID: D1303

Well Interference – Water Development Charges	\$388,566
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4. Relationship to Strategic Plan

- 4.1 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.

- c. Service Excellence Goal 5.3: Demonstrate commitment to continuous quality improvement and communicating results.

5. Conclusion

- 5.1 It is recommended that Regional Municipality of Durham Council approve the subject watermain extension work as per Section 4. f) of the Region's Well Interference Policy as post construction provisions for the extension of approximately 170 metres of 300-millimetre diameter polyvinyl chloride watermain on Marnie Drive, from Baseline Road north 110 meters to Cigas Road, and on Cigas Road, from Marnie Drive to 60 metres east.
- 5.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the financial recommendations.
- 5.3 For additional information, contact: Michael Harris, Manager of Design Contracts, Environmental Services Branch, at 905-668-7711, extension 3458.

6. Attachments

Attachment #1: Location Map

Respectfully submitted,

Original signed by:

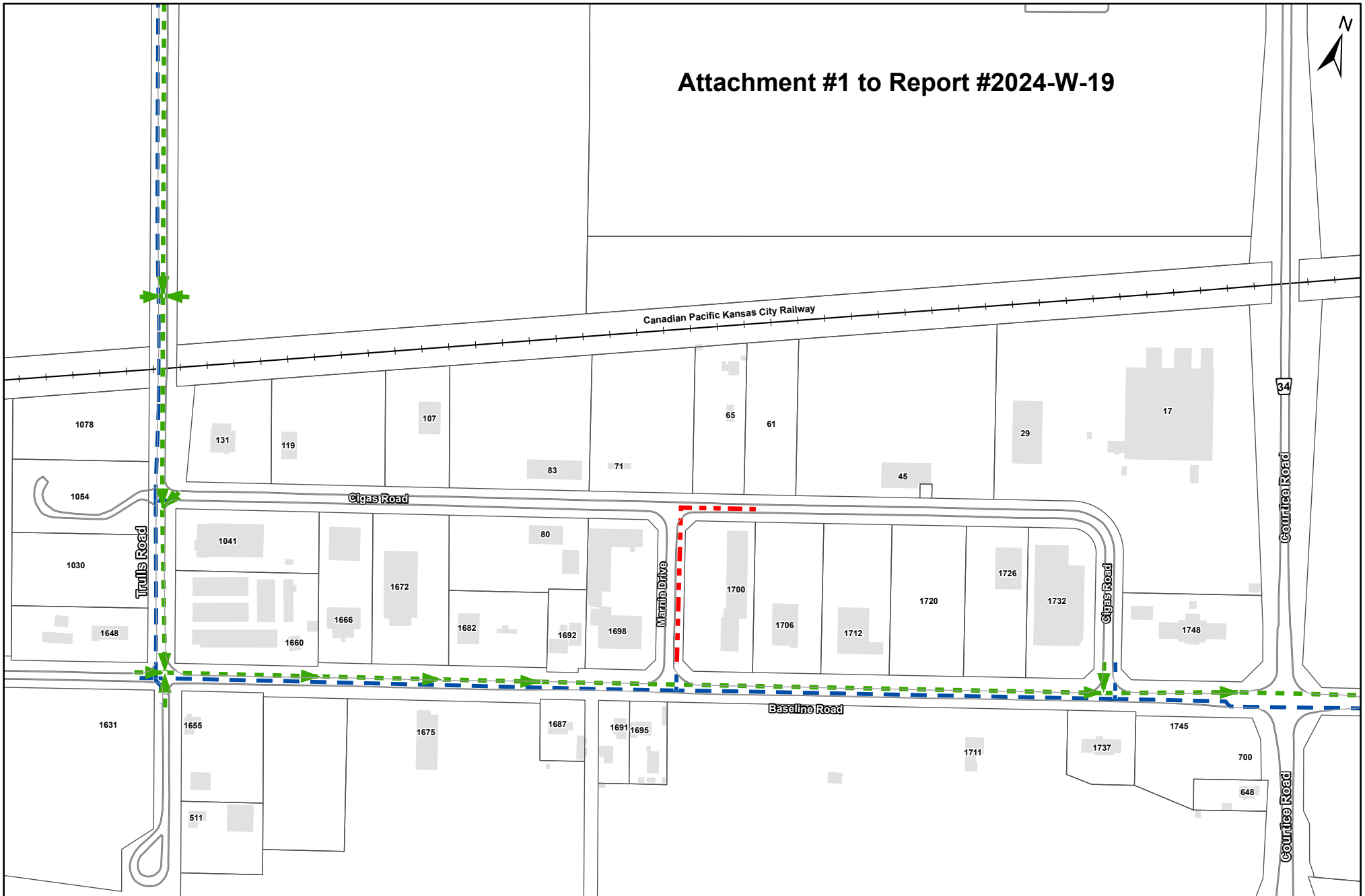
Ramesh Jagannathan, M.B.A, M.Eng., P.Eng., PTOE
Commissioner of Works

Recommended for Presentation to Committee



Original signed by Brian Bridgeman, Commissioner of Planning and Economic Development for

Elaine C. Baxter-Trahair
Chief Administrative Officer

Attachment #1 to Report #2024-W-19



Water Network

-  Watermain - Proposed 170m Extension
-  Watermain & Feeder mains

Sanitary Sewer System

-  Trunk Sewer & Local Sewers

Attachment # 1 - Location Map

