



# SUNSHINE COAST REGIONAL DISTRICT

AMENDMENT NO.#2

Request for Proposal No. 2537011

Water System Modeling and Support Services

**Date: August 14, 2025**

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This addendum forms part of the contract documents and shall be read, interpreted, and coordinated with all other parts. The costs of all work contained herein shall be included in the tender submission. The following revisions, clarifications, changes, additions, or deletions supersede the information contained in the original documents to the extent referenced and shall become part thereof:

**Number of pages including attachments: #5**

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## **Item No.1 Closing Date and Time**

The closing date and time has been changed from "August 20, 2025 at 3:00 PM local time" to "August 28, 2025 at 3:00 PM local time".

## **Item No.2 Hypothetical Scenarios**

Add: Appendix A – Hypothetical Scenario

## **Item No.3 Item 3.3.2.2 Strategic & Capital Planning Services**

Delete:

"c) Assist in the development of project priorities for the 5- and 10-year underground capital programs."

Replace with:

"c) Assist in development of projects priorities using 2046 demand scenarios for underground capital programs."

## **Item No.4 Section 5.4**

Delete:

"Proponents need to submit a fee proposal that sets out the separate costs of each project described as well as an all-inclusive cost for all the projects; the proposal should include a breakdown of the fix prices including time, travel, hourly billable rates and material costs.

To be considered, the Proponents will provide an hourly rate table summarizing the hour billing rates for all proposed team members and sub-consultants for the years 2025, 2026, 2027 and 2028. If future year rates are not established, an anticipated annual percentage increase is acceptable.

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Prices quoted will be deemed to be:

- in Canadian dollars;
- inclusive of duty, tariffs, FOB destination, and delivery charges where applicable; and
- exclusive of any applicable taxes.

Bidder's will provide a list of all major suppliers and manufacturers involved in the contract, including their country of origin and whether they are based in the United States."

Add / Replace with:

"Proponents need to submit a fee proposal that sets out all-inclusive rates for the hypothetical scenario(s) provide in Appendix A; and hourly rate table summarizing the hour billing rates for all proposed team members and sub-consultants for the years 2025, 2026, 2027 and 2028. If future year rates are not established, an anticipated annual percentage increase is acceptable. The proposal should include a breakdown of the fix prices including time, travel, hourly billable rates and material costs.

Prices quoted will be deemed to be:

- in Canadian dollars;
- inclusive of duty, tariffs, FOB destination, and delivery charges where applicable; and
- exclusive of any applicable taxes.

Bidder's will provide a list of all major suppliers and manufacturers involved in the contract, including their country of origin and whether they are based in the United States."

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Amendment No.2 is issued prior to receipt of submission and shall form part of the contract documents. The revisions shall clarify the information contained in the original Proposal documents issued on July 14, 2025.

## Appendix A Hypothetical Scenario

### Development Project Overview

The Regional District has received an application for a 28-lot single-family residential subdivision. These lots are to be serviced by Regional District water; however, the property currently lacks an existing water connection, and there is no watermain running along the frontage of Ripple Way.

An existing 200 mm diameter watermain runs through Lighthouse Avenue and continues west along Ripple Way, where a 200 mm diameter stub is located at the intersection (Figure 1). Additionally, a 150 mm diameter watermain runs along Fairway Avenue. At the intersection of Fairway Avenue and Ripple Way, a 200 mm diameter watermain branch (Ts) off the 150 mm main and extend eastward.

The developer proposes to connect the existing watermains on Lighthouse Avenue and Fairway Avenue by installing new 200 mm diameter watermain along Ripple Way (Figure 1). This new main will tie into the existing 200 mm stub at the Lighthouse Avenue and Ripple Way intersection and will serve the subdivision.

The proposed 200 mm diameter watermain will loop through Road A and Road B, providing service throughout the development.

Fire hydrants are proposed at the intersection of Road A and Road B, and at the bend of Road B.

According to the Regional District GIS system, the existing fire hydrants have the following pressure ratings:

- 160 psi at the intersection of Lighthouse Avenue and Ripple Way
- 115 psi on Fairway Avenue, north of the site
- 85 psi at the intersection of Gale Avenue and Ripple Way

These pressure ratings will need to be confirmed.

### Requirements

- 1) **Water Demands** to be allocated based on the per capita demand rates specified in the MMCD for metered systems.
- 2) **Required Fire Flow** for the development based on MMCD guidelines (single-family residential 60L/s).

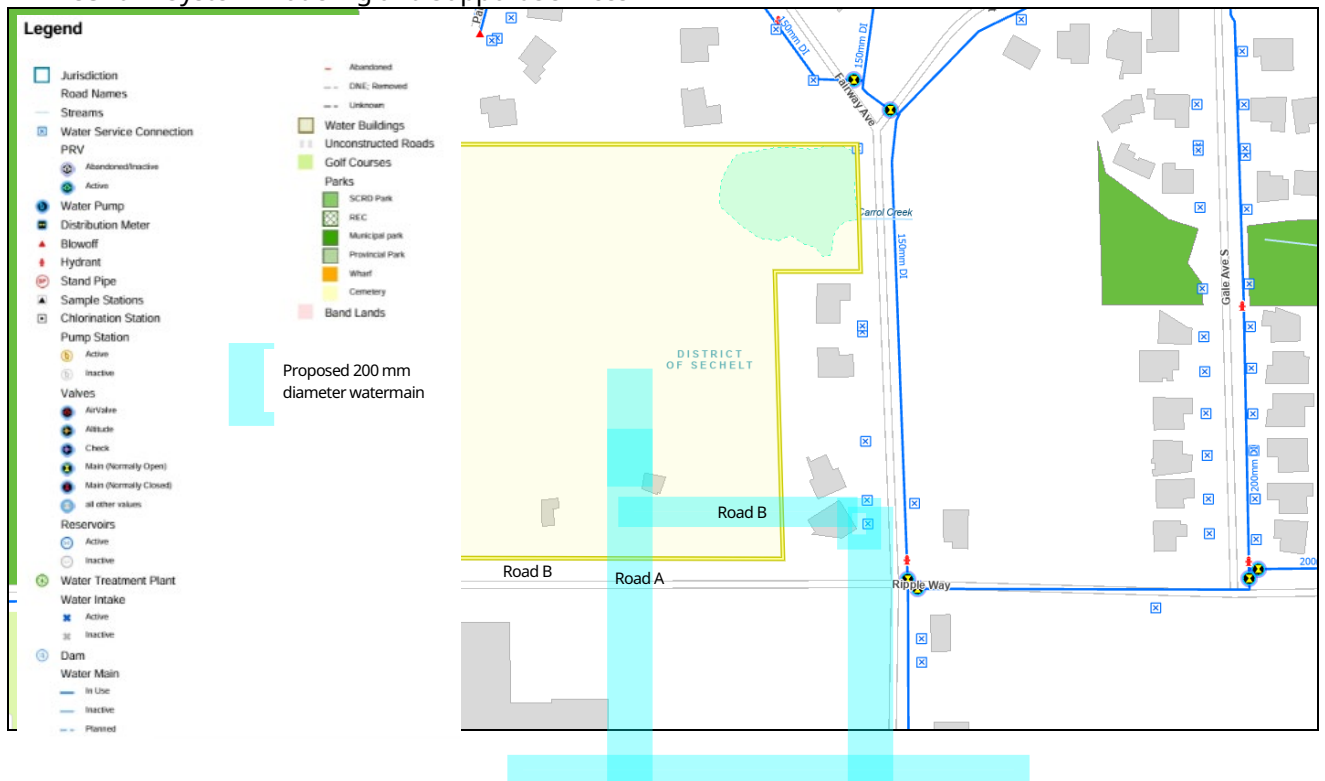


Figure 1 Development project overview

## Objective

The objective of this development project review is to perform a hydraulic capacity and modeling analysis to assess whether the proposed watermain extension can adequately support the new subdivision and meet the Regional District fire flow requirements. The review will also evaluate the broader impact of the proposed development on the existing water system, including fire flow capacity and pressure performance under current and future demand conditions.

## Scope of work

- Task 1 – Data collection and review:

Gather and review all relevant background information, including existing water system data, as-built drawings, GIS files, hydrant flow test results, and Regional District design standards.

- Task 2 – Model configuration and validation:

Update the existing water model to incorporate the proposed development layout and infrastructure. Validate and calibrate the model using hydrant flow test results.

- Task 3 – Hydraulic scenario simulations for 2021 and 2046:

Conduct simulations under both 2021 and 2046 demand scenarios.

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- Task 4 – Performance evaluation and system impact assessment:

Analyze model results to determine whether the proposed development can be supported without compromising system performance. Evaluate fire flow availability, pressures, and potential impacts on the neighborhood water system.

- Task 5 – Recommendations on necessary system upgrades:

Identify any system deficiencies and provide recommendations for upgrades or improvements needed to support the proposed development and maintain Regional District service standards.

**Deliverables**

Technical memorandum summarizing:

1. Modeling assumptions, configurations, and validation.
2. Detailed pressure and fire flow results.
3. System-wide impact analysis.
4. Recommendations for system upgrades (if required).