



REQUEST FOR PROPOSALS No. 22-010

***PROFESSIONAL ENGINEERING SERVICES
FOR
AC WATERMAIN REPLACEMENT DESIGN FOR MADRONA AND RED GAP
NEIGHBOURHOODS IN THE NANOOSE BAY PENINSULA WATER SERVICE AREA***

**Addendum 1
Issued: February 17, 2022**

Closing Date & Time: on or before 3:00 PM Pacific Time on February 24, 2022

This addendum shall be read in conjunction with and considered as an integral part of the Request for Proposal. Revisions supersede the information contained in the original Proposal or previously issued Addendum. No consideration will be allowed for any extras due to any Proponent not being familiar with the contents of this Addendum. All other terms and conditions remain the same.

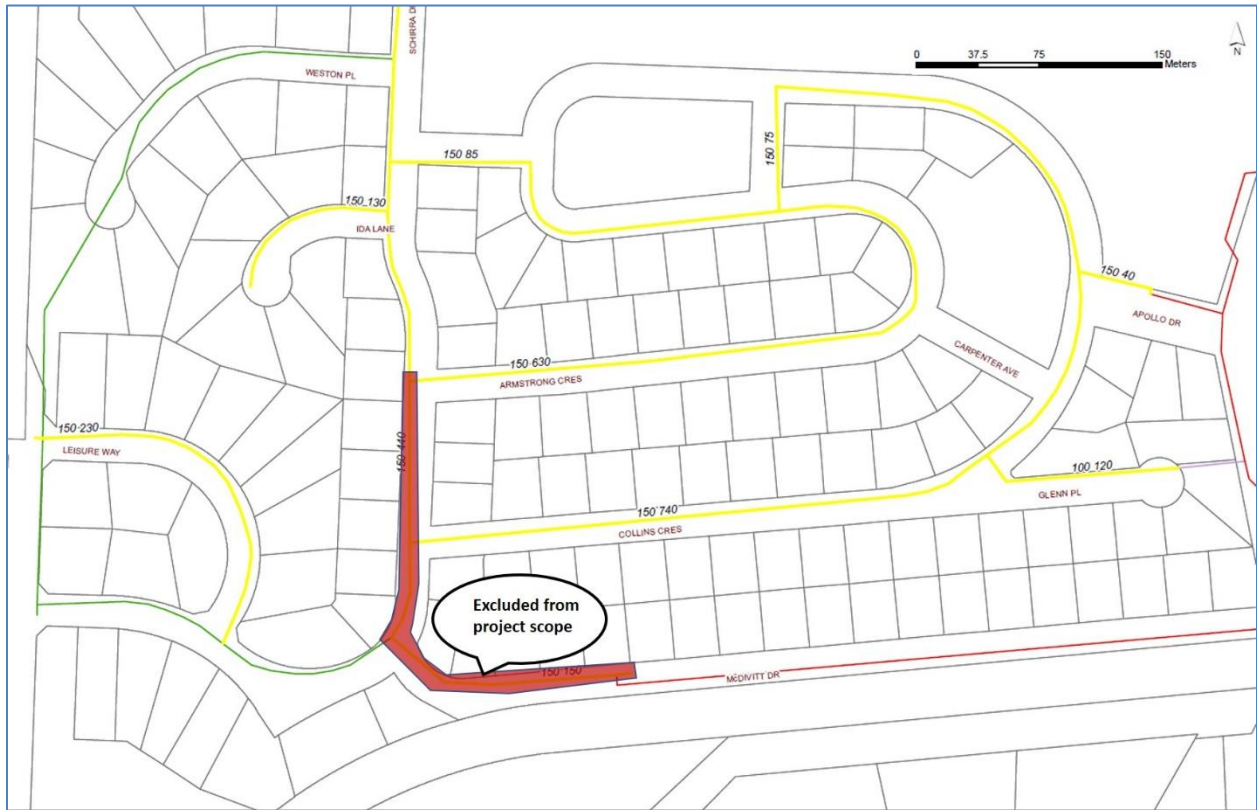
The watermain pipes in the following locations will be excluded from the scope of this design project since they were replaced with PVC pipes in recent years.

Location 1: Schirra Dr between Armstrong Cres and McDivitt Dr

Location 2: McDivitt Dr

Total (approx.) length of pipes on locations 1&2: 330 m.

The excluded pipe locations are highlighted in the following figure.



Clarifications:

1. Does the Regional District participate in BC 1 call service to have the sanitary sewer, storm drain, and water utilities located?

Ans.: No, the Regional District of Nanaimo (RDN) does not participate in BC 1 call service. Proponent may hire private locating companies to locate the underground water pipes.

2. Can the record drawings of the water utilities of the Madrona and Red Gap neighborhood be provided?

Ans.: All available record drawings will be shared with the successful proponent of this project.

3. What is the required accuracy when providing the GPS location of the existing pipe alignment?

Ans.: If the recorded pipe location is reasonably close (say, \pm half of pipe diameter) to the actual pipe centreline, it will be acceptable.

4. What will be provided by the RDN to complete the modelling analysis?

Ans: RDN will provide the as-built drawings of all water utilities that are available and necessary for this project. Other hydraulic information (e.g., pressure, flow etc.) of the water supply source will also be shared with the successful proponent if they are necessary for the project and available to the RDN. This can be discussed with the successful proponent at the project kick-off meeting. In case of any unavailable data,

RDN will rely on the good engineering judgement of the proponent for any assumptions that may be necessary for the modelling and design purposes. The design criteria and assumptions may be listed in the design memorandum to be submitted with the preliminary design package.

5. Is the expectation that the proponent will provide 1 set of tender ready 100% design drawings, tender specifications and class A cost estimate with recommendations on the multi-year phasing plan prorated based on the RDN's anticipated yearly replacement budget?

Ans.: Correct. We only expect 1 set of tender ready 100% design drawings, tender specifications, and class A cost estimate with recommendations on multi-year phase plan. The number of years for the phasing plan may be decided at the later stage of the project when Class B cost estimation is completed.

6. What is the RDN's yearly budget for the multi-phase replacement plan?

Ans.: RDN does not have a fixed yearly budget for multi-year/multi-phased replacement plan. RDN will work with the successful proponent to make the multi-year replacement plan aligned with the RDN's future financial plan.

7. Page 2 of the RFP asks us to "Locate existing pipe alignment and record the existing pipe alignment with GPS". Could you clarify what is required for the locates? Are we just to pick up surface features such as valves, hydrants, etc. to get a best estimate of the where the main is? Or will there be a requirement to retain a utility locate company to find the main?

Ans: The expectation about the accuracy of pipe alignment is given in the above answer to the question #3. Proponent will require to retain utility locate company, capable of locating underground AC pipes. In some streets, the location of valve alone may be sufficient to confirm the alignment of the underground pipe. However, most streets will require locating the underground AC watermain with appropriate method of pipe locate, e.g., ground penetrating radar etc. Once the pipes are located, their alignments are to be surveyed with GPS. The total station survey is also acceptable if the data can be recorded in appropriate coordinate system transferrable to RDN Geographic Information System (GIS) database.

8. Is the RDN aware of any areas with archaeological significance? Does the RDN have an Archaeologist consultant available who can provide input during design?

Ans.: RDN has a database of Archaeological sites and areas with Archaeological potential. If necessary, we will share the relevant Archaeological data with successful proponent. We don't anticipate that any Archaeological input will be required from Archaeologist. However, if necessary, RDN can coordinate with the Archaeologist to get any input necessary for this project.

9. Please confirm the RDN's expectation for locating existing pipe alignment

- i. Locate existing pipe alignment using survey (locations available at surface – valves, manholes, FHs, etc) and record drawings (bends, grade changes, etc)?

- ii. Utility locates (ground penetrating radar) and location surveyed with GPS?

Ans.: Please see the answer to question # 7.

10. For hydraulic modeling and design, will the RDN provide the consultant with water system information including fire hydrant flows and system pressures?

Ans.: Please see the answer to question # 4. For additional clarification, RDN will share any data with successful proponent if they are available and required for the project. We do not anticipate that a calibrated operational model of the water system will be necessary. A basic steady state model representing distribution of flow among pipes in peak flow scenario should be sufficient to justify the pipe design diameters.

End of Addendum 1