

NO: **R122** COUNCIL DATE: **June 11, 2012**

REGULAR COUNCIL

TO: **Mayor & Council**

DATE: **June 6, 2012**

FROM: **General Manager, Engineering**

PROJECT FILE: **1211-004/11**

SUBJECT: **Award of Contract M.S. 1211-004-11
Installation/Upgrading of PRV Stations & Water Main Construction**

RECOMMENDATIONS

The Engineering Department recommends that Council:

1. Award Contract M.S. 1211-004-11 to Tybo Contracting Ltd. in the amount of \$6,382,464.92, including HST, for the installation and upgrading of pressure reducing valve stations and the construction of water mains at various locations throughout the City; and
2. Set the expenditure authorization limit for Contract M.S. 1211-004-11 at \$7,240,000, including contingency and HST.

SCOPE OF WORK

The City of Surrey has multiple pressure zones across its community water supply system that respond to the topography. To allow the system to operate within an acceptable range of water pressure there are over 150 pressure reducing valve (PRV) stations in the system. New pressure zones are being incorporated into the system to provide better service to Surrey residents. These new pressure zones require the construction of new PRV stations. A recent assessment of existing PRV stations has identified some critical deficiencies that need to be corrected through an upgrade to or replacement of the station.

This contract includes the construction of 8 new PRV stations and upgrades to 12 existing, stations. Also included in the contract is the construction of two segments of new water mains. The location of each of the various components of work is illustrated on the map attached as Appendix I and is also listed in the following:

Map Reference Number	Project #	Project Description	Location
1	1200-3060-00	PRV Improvement	104 Avenue / 12400 blk
2	1200-3080-00	PRV Improvement	Scott Road / 10100 blk
3	1209-5080-00	New PRV	132A Street / 055A Avenue
4	1209-5090-00	New PRV	156 Street: lot 7931
5	1209-5100-00	New PRV	054 Avenue / 125A Street
6	1209-5110-00	New PRV	079 Avenue / 161 Street
7	1209-5120-00	PRV Improvement	Robson Road / Plywood Road
8	1209-5140-00	PRV Improvement	148 Street / 086 Avenue
9	1209-5150-00	PRV Improvement	014 Avenue / King George Blvd
10	1209-5170-00	PRV Improvement	088 Avenue / 13200 blk
11	1209-5180-00	PRV Improvement	064 Avenue / 13600 blk
12	1209-5190-00	PRV Improvement	138 Street / Hyland Road
13	1209-5200-00	PRV Improvement	Country Woods Drive / 27A Avenue
14	1209-5210-00	PRV Improvement	Fraser Highway / 168 Street
15	1209-5220-00	PRV Improvement	024 Avenue: lot 16667
16	1209-5230-00	New PRV	014 Avenue / 136 Street
17	1209-5240-00	New PRV	014 Avenue / 130 Street
18	1209-6020-00	New PRV	062 Avenue / 138 Street
19	1209-6030-00	New PRV	Coulthard Road / 55A Avenue
20	1210-5010-00	PRV Improvement	095 Avenue / 164 Street
21	1210-3090-00	Water Main	088 Avenue: lot 12772 - 13225
22	1210-3190-00	Water Main	128 Street: 76 - 90 Avenue

The contract work is expected to start on June 18, 2012, and be completed by June 18, 2013.

TENDER RESULTS

Tenders for the subject contract were opened on May 25, 2012 with the following results:

<i>Contractor</i>	<i>Tendered Amount with HST</i>	<i>Corrected Amount</i>
1. Tybo Contracting Ltd.	\$6,382,437.03	\$6,382,464.92
2. Hyland Excavating Ltd.	\$7,165,813.87	No Change
3. TAG Construction Ltd.	\$8,986,550.16	\$8,998,310.16

The Engineer's pre-tender estimate was \$6,647,000 including HST.

EVALUATION

The City's consultant reviewed the tender submissions for accuracy and completeness. There were two arithmetic errors that had no bearing on the outcome of the tender process. All submissions included the required 10% bid bond, and were signed and sealed on the Tender Form and Summary Sheet of the Schedule of Quantities and Prices.

The low bidder, Tybo Contracting Ltd., has provided a Consent of Surety for a Performance Bond and a Labour & Materials Bond, and agreed to complete the work within 260 working days, as stipulated in the contract. Tybo Contracting Ltd.'s past performance on similar work has been satisfactory. They have no outstanding legal claims against the City. It is recommended that Tybo Contracting Ltd. be awarded Contract M.S. 1211-004-11.

SUSTAINABILITY CONSIDERATIONS

The work of this contract will minimize operational and maintenance costs and water main leakage. Also included in the project is an innovative approach to power generation by the use of a turbine generator within one of the PRV stations. As such, the project supports the objectives of the City's Sustainability Charter; more specifically, the following scope action items:

- EC3: Sustainable Infrastructure Maintenance and Replacement
- EN8: Sustainable Engineering Standards and Practice

FUNDING

Funding for this contract is available in the approved 2012 Budget.

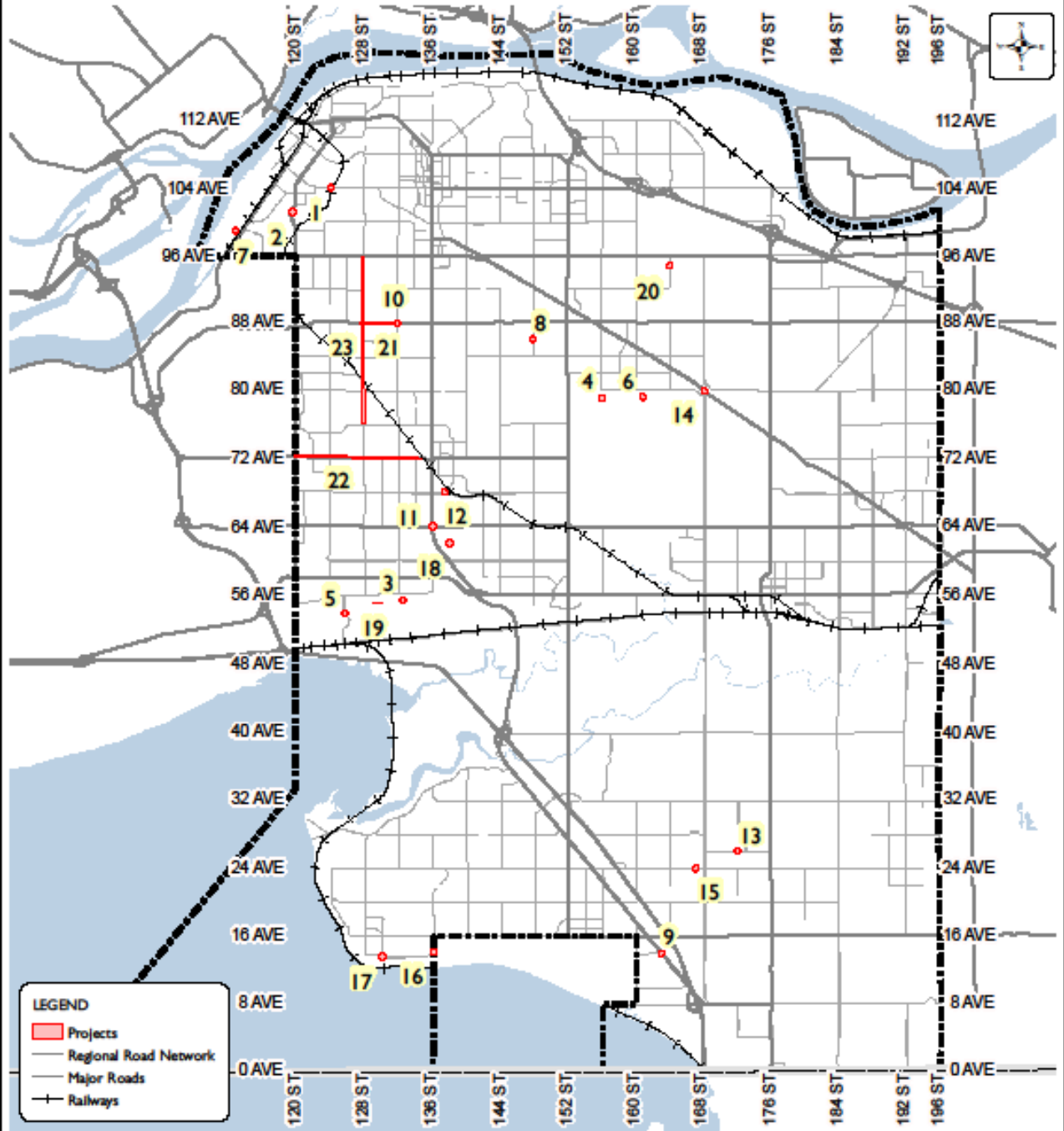
Vincent Lalonde, P.Eng.
General Manager, Engineering

VL/DVM/brb

Appendix I – Map of Locations of PRV Stations & Water Mains

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APPENDIX I



Produced by GIS Section: May 6, 2012; CS



MS 1211-004-11: PRV Stations & Water Mains

ENGINEERING
DEPARTMENT

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey.
This information is provided for information and convenience purposes only.
Lot sizes, legal descriptions and encumbrances must be confirmed at the Land Title Office.

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