

## CITY COUNCIL AGENDA MEMORANDUM

### **SUBJECT**

Motion to award Bid No. 10199 for Emerald Ridge Wastewater Pump Station Replacement, to BOSS Construction, Inc., as lowest responsible and responsive bidder in an amount not to exceed \$999,674.78 (CIP Plan No. S-16).

### **FISCAL IMPACT**

Awarding this bid commits the City to payment of \$999,674.78 for sewer system service within the Bellevue service area. The low bid was 31% below the Engineer's Estimate. This contract is fully funded through the Utility's Sewage Pump Station Improvements (CIP Plan No. S-16). This work was included in the 2009-2015 Utilities CIP budget; there is adequate budget remaining to fund this contract.

### **STAFF CONTACT**

Denny Vidmar, Director, 452-7675  
Wes Jorgenson, Assistant Director, 452-4887  
**Utilities Department**

### **POLICY CONSIDERATION**

Utilities Department policies provide for the identification and implementation of capital projects via the CIP to rehabilitate or replace deteriorated elements of the wastewater system. This policy ensures that utility customers are provided with consistent and reliable service. CIP Plan No. S-16 has been designated to do this.

### **BACKGROUND**

This project consists of replacing the existing Emerald Ridge wastewater pump station. Emerald Ridge pump station is located within the existing right-of-way on the northwest corner of 118<sup>th</sup> Avenue SE and SE 32<sup>nd</sup> Street (Henry Bock Road). It lies within an unclassified neighborhood east of Mercer Slough. This station is over 30 years old and could fail if not replaced, potentially causing environmental harm by overflowing sewage into an adjacent wetland.

This station was reviewed as part of a 2007 sewage pump station evaluation. The evaluation assessed the condition of five wastewater pump stations and identified improvements needed to satisfy current standards for odor control, overflow elimination, mechanical, electrical, telemetry and safety. The evaluation recommended that three of the stations be rehabilitated, that one station was near the end of its service life and will require partial replacement or rehabilitation, and that Emerald Ridge pump station is at the end of its service life and will require full replacement. To date, two stations have been rehabilitated.



## **EFFECTIVE DATE**

If adopted, the award of this bid will become effective immediately.

## **OPTIONS**

1. Award Bid No. 10199 for Emerald Ridge Wastewater Pump Station Replacement, to BOSS Construction, Inc., as lowest responsible and responsive bidder in an amount not to exceed \$999,674.78 (CIP Plan No. S-16).
2. Award contract to another bidder, if low bidder is rejected.
3. Reject all bids and re-bid at a later date.

## **RECOMMENDATION**

Adopt Option No. 1, which awards Bid No. 10199 for Emerald Ridge Wastewater Pump Station Replacement, to BOSS Construction, Inc., as lowest responsible and responsive bidder in an amount not to exceed \$999,674.78 (CIP Plan No. S-16). References have been checked and the contractor has the resources and experience necessary to successfully complete this project.

## **MOTION**

Move to award Bid No. 10199 for Emerald Ridge Wastewater Pump Station Replacement, to BOSS Construction, Inc., as lowest responsible and responsive bidder in an amount not to exceed \$999,674.78 (CIP Plan No. S-16).

## **ATTACHMENTS**

Vicinity Map  
CIP Project Description

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**FY 2009 - FY 2015 Capital Investment Program**

**S-16 Sewage Pump Station Improvements**

Category: Sewer  
Department: Utilities

Status: Ongoing  
Location: Numerous sewage pump stations throughout the Sewer Utility's

**Programmed Funding**

Programmed Funding	Appropriated To Date	FY 2009 Budget	FY 2010 Budget	FY 2011 Budget	FY 2012 Budget	FY 2013 Budget	FY 2014 Budget	FY 2015 Budget
13,148,000	9,640,000	444,000	462,000	480,000	500,000	520,000	540,000	562,000

**Description and Scope**

This program consists of rehabilitating and repairing sewage pump stations and flush stations throughout the wastewater system. The system includes 36 pump stations and 10 flush stations which move collected wastewater through pressurized pipes to ultimately discharge flows to Metro. Pump stations include electrical and mechanical equipment with an estimated service life of 25 years; flush station components last 40 years, on average. Beyond this time component, failures increase, technology becomes obsolete and parts become difficult or impossible to replace. The station structures generally have a 100 year design life.

**Rationale**

Most of Bellevue's sewer pump stations were constructed over 30 years ago. Prior to implementation of this program, few improvements were made to the stations except on a semi-emergency basis or in response to equipment failure. This had resulted in increased maintenance and system down time. State and federal laws require that we minimize pump station overflows; Repeated violations can result in sanctions. Utility Renewal & Replacement policies require that we maintain service to our customers and optimize investment to minimize cost. Station rehabilitation improves reliability and safety; reduces the risk of system overflow and failure, and reduces the liability associated with such failures.

A program was initiated in 1985 to rehabilitate/retrofit pump and flush stations throughout the system. The first stations were rehabilitated in 1987; the program has been ongoing since then. There are currently 3 pump stations and 1 flush station remaining to be rehabilitated. About the time we conclude rehabilitation of the last 4 stations, the earliest station retrofits will be 25 years old, and it will be time to start the rehabilitation program over again. This is a long term Renewal and Replacement program essential to smooth functioning of the wastewater system.

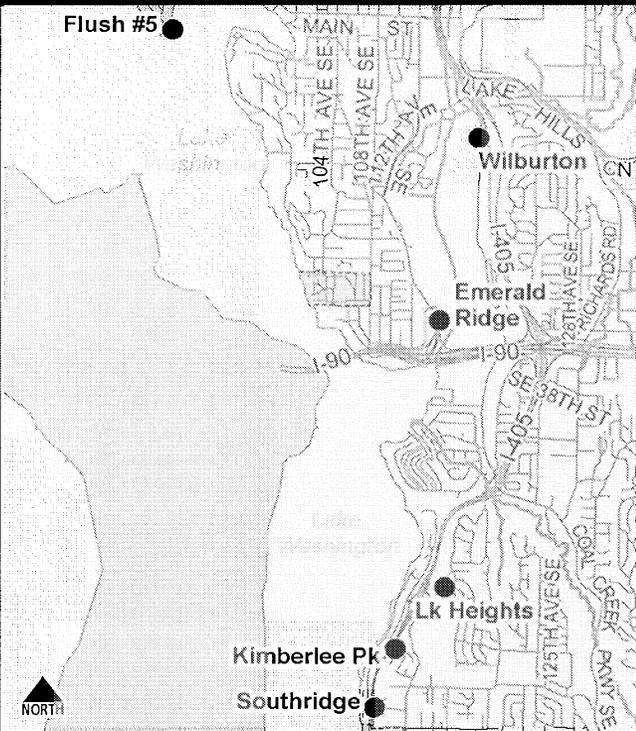
**Environmental Impacts**

The majority of the improvement work will be within the existing pump stations and no substantial environmental impacts are anticipated. The State Environmental Protection Act (SEPA) determinations (typically Determinations of Non-Significance) and exemptions from Shoreline regulations are obtained as required for each pump station as it is upgraded.

**Operating Budget Impacts**

This project will have no impact on operating revenues (and/or) expenditures, since it replaces existing facilities.

**Project Map**



**Schedule of Activities**

Project Activities	From - To	Amount
Project Costs	1985 - Ongoing	13,148,000
<b>Total Budgetary Cost Estimate:</b>		<b>13,148,000</b>

**Means of Financing**

Funding Source	Amount	
Charges for Services	7,000	
Utility Rates/Fees	13,141,000	
<b>Total Programmed Funding:</b>		<b>13,148,000</b>
<b>Future Funding Requirements:</b>		<b>0</b>

