

**AGENDA BILL**

**Beaverton City Council  
Beaverton, Oregon**

**SUBJECT:** Contract Award – SW 153<sup>rd</sup> Drive Pressure Reducing Valve Station Improvements Project (CIP 4134A)

**FOR AGENDA OF:** 08-08-17 **BILL NO:** 17166

**MAYOR'S APPROVAL:** *Dennis Doyle*

**DEPARTMENT OF ORIGIN:** Public Works *[Signature]*

**DATE SUBMITTED:** 07-27-17

**CLEARANCES:**  
City Attorney *W. B. K...*  
CAO *[Signature]*  
Purchasing *[Signature]*  
Finance *[Signature]*  
Engineering *[Signature]*

**PROCEEDING:** CONSENT AGENDA (CONTRACT REVIEW BOARD)

- EXHIBITS:**
- 1. Project Vicinity Map
  - 2. Funding Plan
  - 3. Bid Results Summary Memorandum (Pending)

**BUDGET IMPACT**

EXPENDITURE	AMOUNT	APPROPRIATION
REQUIRED \$213,205*	BUDGETED \$415,000**	REQUIRED -0-

\*Estimated construction cost, will be revised once bids are received.

\*\* Account Number 501-75-3701-682 Water Operating Fund – Systems Improvements Program – Construction Account. This Pressure Reducing Valve (PRV) Improvement project is one of three that are funded in the FY 2017-18 Adopted Budget under Project 4134A which has a total appropriation of \$415,000. The other two PRV projects will be bid at a later date. See attached Funding Plan (Exhibit 2)

**RECOMMENDED ACTION:**

City Council, acting as the Contract Review Board, authorizes the Mayor to sign a contract with the lowest responsive bidder for the SW 153<sup>rd</sup> Drive Pressure Reducing Valve (PRV) Station Improvements Project (CIP 4134A) in a form approved by the City Attorney.

**HISTORICAL PERSPECTIVE:**

The SW 153<sup>rd</sup> Drive PRV Station and SW Division Street PRV Station Improvements Project is included in the FY 2017-2018 and FY 2018-2019 Capital Improvements Plan (CIP) under CIP Project Number 4134A (Exhibit 1).

In December 2016 City Council authorized the withdrawal of the remainder of the Cedar Hills Crossing water service area. The purpose of this project is to install a new PRV (pressure reducing valve) station on SW 153<sup>rd</sup> Drive. The PRV station is necessary to create and regulate a City water 435 Pressure Zone to serve the Tualatin Valley Water District (TVWD) water service area transferred to the City located near Cedar Hills Boulevard/Jenkins Road/Walker Road. The new PRV station will also regulate pressure and water supply to the adjacent lower pressure zone area, which serves about 55,000 people on Beaverton's valley floor. The transferred TVWD water service area is currently served by the City's water 410 Pressure Zone and the SW 153<sup>rd</sup> Drive PRV station will

bring the pressure in the area back up to match the 435 Pressure Zone, formerly provided by TVWD water, as soon as the SW 153<sup>rd</sup> Drive PRV Station project is completed. The SW Division Street PRV Station Improvements portion of the CIP project will be bid at a later date.

The added purpose of both the CIP 4134A PRV stations is they are part of an overall plan to create a second means of water supply in the event of an interruption or emergency water supply outage from the Joint Water Commission (JWC) Water Treatment Plant, 20 miles distant from the City. An objective in the City's ongoing water system master plan, being prepared by an engineering consultant, is to develop an automated and rapid responding intertie to the high pressure transmission line linked to storage at the City's Cooper Mountain Reservoir and the Sexton Mountain Pumping Station. Secondly, the budgeted ASR 5 project, once completed, will be designed to work in concert with ASR wells Nos. 2 and 4 to pump directly into the 36-inch transmission line in an emergency. The two intertie projects will supply water directly into the City's backbone 36-inch water transmission line through Beaverton in the event of an emergency outage of water supply from the JWC, as well as on very high water demand days where water supply in the 36-inch backbone transmission line would come from both the JWC and the City's three ASR wells. This SW 153<sup>rd</sup> Drive PRV and other related projects are intended to enhance the overall resiliency and redundancy of the City of Beaverton's water system.

#### **INFORMATION FOR CONSIDERATION:**

The SW 153<sup>rd</sup> Drive PRV Station Improvements project will involve the construction of a pressure reducing vault station along SW 153<sup>rd</sup> Drive, just south of SW Beaverton Creek Court, and a check valve vault along SW Millikan Way to the west of Murray Boulevard. The PRV station will have telemetry installed that will allow for remote monitoring and control. The check valve will allow for water to move from the 435 Pressure Zone to the 410 Pressure Zone to improve water quality, and if the pressure drops in the 435 Pressure Zone the check valve will open to allow water to flow from the 410 Pressure Zone into the 435 Pressure Zone. After installation of the SW 153<sup>rd</sup> Drive PRV station, the existing PRV station at SW Shaw Street on the 36" Transmission Line will be adjusted to raise the pressure from 410 to 435 in the vicinity of the SW 153<sup>rd</sup> PRV Station and in the Cedar Hills Crossing withdrawal area.

Funding for the SW 153<sup>rd</sup> Drive PRV Station Improvements project will come from the FY 2017-2018 Adopted Budget (\$415,000) (Exhibit 2).

The SW 153<sup>rd</sup> Drive PRV Station and SW Division Street PRV Improvements project is included in the FY 2017-2018 and FY 2018-2019 CIP under CIP Project Number 4134A (Exhibit 1).

The City hired Murraysmith in 2017 to design the SW 153<sup>rd</sup> Drive PRV Station and SW Division Street PRV Station Improvements project. The design for the SW 153<sup>rd</sup> Drive PRV Station Improvements portion of CIP 4134A was completed on June 28, 2017.

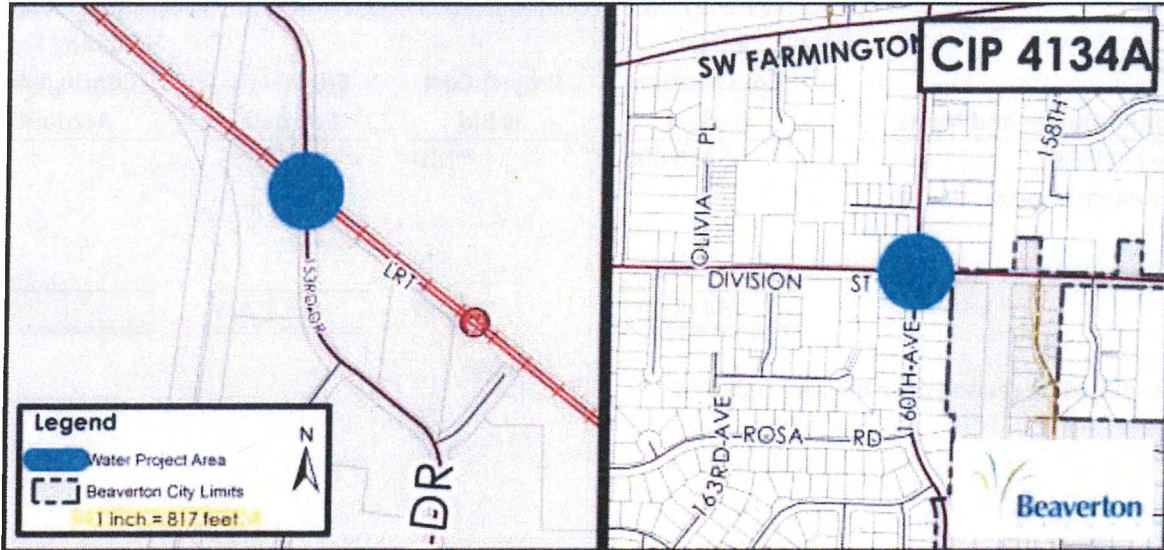
The solicitation was released and advertised in the Daily Journal of Commerce on July 5, 2017. The bid opening is scheduled for 2:00 PM on July 27, 2017. Since the Council packet for the August 8, 2017, City Council meeting is distributed on August 2, 2017, staff will prepare a supplemental memorandum (Exhibit 3) before the City Council meeting that will be provided to the City Council summarizing the actual bid results and making a recommendation for award of a contract to the responsible bidder submitting the lowest responsive bid.

City of Beaverton  
2017-2018 CIP

Project Data

Water

Project Number: 4134A  
Project Name: PRV Improvements at 153rd Dr & Beaverton Creek TC and Division St & Village PI\*  
Project Description: Construction of new pressure reducing valve (PRV) vaults that separate pressures zones.  
Map:



Project Justification: In Dec 2016 City Council authorized the withdrawal of the remainder of Cedar Hills Crossing water service from Tualatin Valley Water District (TVWD). The 153rd Ave PRV is necessary to create a City water 435 pressure zone for the CE John development between Jenkins Rd and Walker Rd. The Division St & Village PI PRV will add a connection to the 36-inch transmission line, improve fire protection, and allow for future water system improvements in the area. The PRVs will be remotely operated from a City water system computer.

Project Status: FY17-18: Complete design and begin construction. FY18-19: Complete construction.

Estimated Date of Completion: 04/30/2018

First Year Budgeted: FY15/16

Estimated Project Cost: \$300,000

New Project:

**Funding Data:**

Project No.	Fund No.	Fund Name	Amount	FY
4134A	3701	Water Improvements	\$300,000	FY2017/18
<b>Total for FY:</b>			\$300,000	

\*Note: The project being reviewed for contract approval is the the SW 153rd PRV Station Improvements only. The Division St and Village PI PRV Station Improvements are under design and will be bid under a separate construction project.

**FUNDING PLAN**  
**SW 153rd Drive PRV Station Improvements Project (CIP 4134A)**

<u>Fund Number and Name</u>	<u>FY 2017-18 Project Construction Budget</u>	<u>Project Cost as Bid</u>	<u>Engineer's Estimate</u>	<u>Additional Funding From Contingency Account</u>
501-75-3701-682 Water System Improvements	\$415,000	*TBD	\$213,205	\$0
Totals	<u>\$415,000</u>	*TBD	<u>\$213,205</u>	<u>\$0</u>

\*Project Bid, to be revised once bids are received



## **MEMORANDUM**

**City of Beaverton**

*Public Works Department, Engineering and  
Operations Divisions*

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**To:** Mayor Doyle and City Councilors

**From:** Geoff Hunsaker, Project Engineer

**Date:** August 3, 2017

**Subject:** Agenda Bill No. 17166 – SW 153<sup>rd</sup> Drive PRV Station  
Improvements Project – Bid Summary and Recommendation  
for Award of Contract

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The City received proposals from three firms. A bid summary from the Finance Department is attached. Staff has determined that Trench Line Excavation, Inc., of Corvallis, Oregon, is a responsible bidder and submitted the lowest responsive bid (\$294,980.00). Staff therefore recommends award of the construction contract for the SW 153<sup>rd</sup> Drive PRV Station Improvements Project to Trench Line Excavation, Inc.

City of Beaverton

**BID SUMMARY**

Project Name: SW 153rd DRIVE PRV STATION IMPROVEMENTS – CIP 4134A; Solicitation #3244-18B

OPENED ON: July 27, 2017

WITNESSED BY: Terry Muralt

VENDOR NAME CITY, STATE	Bid Proposal	Bid Proposal Certification - Ack. Addenda	Bid Bonds	Bidder Construction Schedule	Current Project Info	Bidders Responsibility Form	TOTAL BID
Trench Line Excavation, Inc. – Corvallis, OR	✓	✓	✓	✓	✓	✓	\$294,980
Stettler Supply Co. – Salem, OR	✓	✓	✓	✓	✓	✓	\$301,365
Oregon Underground, Inc. – Clackamas, OR	✓	✓	✓	✓	✓	✓	\$364,434

The Purchasing process has been confirmed.

Signed: [Signature]  
Finance Department, Purchasing Division

The above amounts have been checked:  YES  NO

Date: 7/27/2017

