



### III. DESCRIPTION/BACKGROUND

**Project Purpose** This project replaced 10 Pressure Reducing Valve (PRV) Stations throughout Redmond. The City uses approximately 84 PRV stations to manage water pressure in the City’s distribution system. Many of these PRV stations were built in the 1960’s and 1970’s and are in need of refurbishment. The MOC staff have inspected and evaluated all of the City’s PRVs and generated a list of 27 PRVs that need to be rehabilitated or replaced. These PRVs have aged and degraded to a point that they no longer meet the City’s standard due to pipe corrosion, age, type of materials used, and environmental conditions. Corrosion is the main cause of degradation, but other issues include vault drainage and safe access. Ten (10) of the 27 valves were evaluated by MOC staff and Engineering staff and identified as a priority for replacement. **Project Description** This project abandoned and replaced 10 Pressure Reducing Valve Stations throughout Redmond. The construction provided for installation of new vaults, valves, piping and restoration of all street, sidewalk and landscape within the limits of construction. Construction began on June 25, 2018 and was completed on November 27, 2019. There was an approximate 3-month delay when the protective paint applied to the pipes by the contractor was improperly applied and had to be removed and reapplied. **Budget** The project was completed under budget. This project was budgeted as a high-risk construction project with a large contingency due to the underground construction required at 10 different sites. Underground construction can be risky due to the likelihood of encountering unexpected utilities. However, underground conflicts were generally not found and when they were the solutions were simple and inexpensive. Therefore, the project is transferring that contingency back to the Water CIP fund.

### IV. PREVIOUS DISCUSSIONS HELD

#### Council Actions / Communication

Date (MM/DD/YYYY)	Action / Committee Presentation
07/12/2016	Planning and Public Works Committee
08/16/2016	Approve Consultant Services Contract
04/10/2018	Planning and Public Works Committee
04/17/2018	Approve Supplemental Consultant Agreement No. 2
04/17/2018	Award of Bid
Today	Accept Construction

### V. IMPACT

#### A. Service/Delivery:

This project reduced risk of pressure reducing valve failure and improves maintenance of the water system in Redmond.

#### B. Fiscal Note:

Estimated costs for the project are shown below.

Current Project Budget:

Water CIP	<u>\$5,196,793</u>
Total Funding	\$5,196,793

Estimated Project Costs:

Design Phase	\$656,758
Construction Phase	<u>\$3,524,733</u>
Total Estimated Project Cost	<u>\$4,181,491</u>

Budget Difference	\$1,015,302
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Transfer To Water CIP Fund	\$1,015,302
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**VI. ALTERNATIVES TO STAFF RECOMMENDATION**

None.

**VII. TIME CONSTRAINTS**

Following project acceptance, in accordance with RCW 60.28, the contract retainage will be released upon receipt of clearances from the Washington State Departments of Revenue and Labor and Industries, and a mandatory 45-day waiting period for filing claims and liens.

**VIII. LIST OF ATTACHMENTS**

A. Vicinity Map