

ITEM #:	18
DATE:	04-14-26
DEPT:	PW

COUNCIL ACTION FORM

SUBJECT: FREEL DRIVE PRESSURE REDUCING VALVE ASSEMBLY

BACKGROUND:

A pressure reducing valve (PRV) assembly is a critical control component used to manage the transition of water between different pressure zones within the City's water distribution system. These assemblies ensure that water pressure remains within a safe and functional range for both infrastructure and end users (see attached shop drawing of PRV assembly).

An existing pressure reducing valve is located within the Freel Drive right of way, moderating pressure between a pressure zone on the northern portion of Freel Drive and a pressure zone on the southern portion of Freel Drive. The PRV needs to be relocated due to the proposed water service and driveway locations for the new Resource Recovery and Recycling Campus (see attached location map).

The relocated pressure reducing valve assembly will be located outside the proposed driveway and allow the water service to the site to be within a single pressure zone. The existing valve assembly was placed inside a manhole structure when it was originally construction in 1992. The manhole does not provide adequate space to complete proper maintenance of the assembly. The new valve assembly will be placed in a larger 9'x7' structure to allow for adequate maintenance access.

ESI FAB Systems is the only known vendor that builds and supplies these pressure reducing valve assemblies. Therefore, this purchase requires a single-source purchasing arrangement with ESI FAB Systems, which is why a waiver of the City's purchasing policy requirement for formal bidding procedures is needed.

The other five pressure reducing valve assemblies in service for the City were also built and supplied by ESI FAB Systems. Utilizing the same system for this relocation will ensure consistency in maintenance across all six assemblies. City staff has worked directly with ESI FAB Systems to ensure all components of the assembly will be compatible with the current water system.

While the assembly will be purchased separately to ensure proper design and to meet construction timelines, it will be installed as part of the Freel Drive Paving project. The contractor on this project will be provided the assembly by the City and will be responsible for setting the structure and making connections to the existing water main.

Description	Revenue	Expenses
Unobligated Water System Improvement Funds	\$69,975	
Pressure Reducing Valve Assembly		\$69,975
TOTAL	\$69,975	\$69,975

ALTERNATIVES:

1. Waive the City's purchasing policy requirement for formal bidding procedures for Freel Drive Pressure Reducing Valve Assembly and award a contract to ESI FAB Systems, LLC, Olathe, Kansas, in the amount of \$69,975.
2. Direct staff to solicit bids for a replacement PRV.
3. Direct staff to modify the design of the Resource Recovery and Recycling Campus and Freel Drive Paving projects to avoid conflicts with the existing PRV location.

CITY MANAGER'S RECOMMENDED ACTION:

The existing pressure reducing valve must be relocated with the Freel Drive Paving Project to ensure work for the Resource Recovery and Recycling Campus (R3C) can be completed. The lead time on the assembly from ESI FAB Systems is quoted at 10-13 weeks and could impact the timeline of both projects. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as stated above.

ATTACHMENT(S):

[PRV Location Map-.pdf](#)

[PRV Shop Drawing.pdf](#)