



Legislation Details (With Text)

File #: ID#16-3097 **Version:** 1 **Name:** Inflow and Infiltration Flow Reduction
Type: Action Item **Status:** Passed
File created: 12/12/2016 **In control:** Public Works
On agenda: 1/19/2017 **Final action:** 1/19/2017
Title: Approve Engineer of Record (EOR) Supplemental 4 Work Order to McKim and Creed in the amount of \$199,112.25 for the Inflow and Infiltration Flow Reduction Project (15-004-UT) and authorize the appropriate officials to execute same. (consent)

Sponsors:

Indexes: **, 2. Economic & Housing Opportunity, 4. Environmental Stewardship, 5. Superior Public Service

Code sections:

Attachments: 1. NE II Smoke testing Supplemental Work Order, 2. Basin6A, 3. Basin6B, 4. Basin6C

Date	Ver.	Action By	Action	Result
1/19/2017	1	City Council		
1/17/2017	1	Council Work Session		

SUBJECT/RECOMMENDATION:

Approve Engineer of Record (EOR) Supplemental 4 Work Order to McKim and Creed in the amount of \$199,112.25 for the Inflow and Infiltration Flow Reduction Project (15-004-UT) and authorize the appropriate officials to execute same. (consent)

SUMMARY:

March 19, 2015, City Council approved a work order to EOR McKim & Creed to identify sources and quantity of Inflow and Infiltration (I/I) of problematic sewer basins to remediate in the amount of \$146,200.

August 14, 2015, City Manager approved supplemental 1 work order for the removal of temporary flow meters and the installation of open channel meters and a level sensing device at various locations increasing the work order by \$14,550.

October 1, 2015, City Council approved supplemental 2 work order to relocate and add extra flow sensors, followed by site investigations to exactly locate points of I/I and generate maintenance work orders for the City to immediately implement. To summarize, the goal of this phase of the project is to "Find and Fix" significant sources of I/I in the Marshall Street WRF and East WRF basins, in the amount of \$179,825.

June 16, 2016, City Council approved supplemental 3 work order that provided for I/I flow reduction verification via metering and the determination of the resulting savings and return on investment for the East and Marshall Street WRF basins. In addition, flow monitoring was started on the North East WRF basin in the amount of \$126,700.

Supplemental 4 provides for Smoke and Dye Testing in the Northeast WRF Basin. It is expected that after the remediation of the defects found in the Northeast WRF Basin the I/I flow reduction will be approximately 15%, similar to that accomplished in the East WRF and Marshall Street WRF basins. For those two basins the cost savings for conveyance and treatment is projected to be approximately \$630,000/yr. This supplemental is in the amount of \$199,112.25 for a new work order value of \$666,387.25.

APPROPRIATION CODE AND AMOUNT:

0315-96665-561300-535-000-0000 \$119,112.25

Funds are available in Capital Improvement Project 315-96665, Sanitary Sewer Repair and Replacement, to fund this work order.