

2012 Large Water Transmission Main Valve Replacement

2012 CIP REPORT

<u>Project Number:</u>	TBD
<u>General Location:</u>	Kaw Water Treatment Plant and 8 th & Kentucky
<u>Project Budget:</u>	\$150,000.00
<u>Project Start Date:</u>	TBD
<u>Project End Date:</u>	TBD
<u>Engineer:</u>	TBD
<u>Engineering Cost:</u>	TBD
<u>Engineering Invoiced:</u>	TBD
<u>Contractor:</u>	TBD
<u>Construction Cost:</u>	TBD
<u>Change Orders:</u>	TBD
<u>Construction Invoiced:</u>	TBD
<u>Other Costs:</u>	TBD

General Project Description

Through the valve exercising program Utilities Department staff have identified large diameter water distribution system isolation valves at various locations that either do not operate, or operate but do not fully seal. These valves are typically 16" in diameter or larger and on water transmission lines of similar diameters. Because there are fewer connecting watermains and the operational need to isolate a larger diameter water transmission main is infrequent, the number of valves on large diameter water transmission mains are fewer and they are located at greater distances apart than those on the smaller water mains that make up the bulk of the water distribution system. This makes the need for each available valve to be fully operational critical to allow timely shutdown in the event of an emergency.

Current Project Status

The current project anticipates replacing four (4) first tier valves and accessories ranging in size from 16" to 24" in diameter. There are two (2) each (1955 and 1958) 24" diameter gate valves located on Kaw Water Treatment Plant Central Service high service pump discharge transmission mains and two (2) each (1886 & 1954) 16" butterfly valves located on the east side of Indiana Street east of the Kaw WTP. Until these four first tier valves are replaced, the Kaw WTP cannot be isolated from the transmission system. Staff has met with BG Consultants to review the project scope and discuss budget estimates and optional methods of designing and procuring the work.

The 2012 project will address second tier valves and will replace a 20" (1958) gate valve at 8th & Kentucky and a 16" (1958) gate valve at 2nd & Maine.

Project Timeline

- May 2011 – Staff met with BG consultants to discuss options for isolation and replacement of first tier plant valves.
- June 2011 – BG Consultants submitted a draft agreement, containing scope and fee estimates, as a supplement to the existing engineering services agreement for construction of public improvements between the city and BG Consultants.

Project Funding

The project budget has been included in the 2010 water utility rates and non-bonded construction fund.

Project Photos

20" Gate Valve 8th & Kentucky - Valve operator and manhole



8th & Kentucky Location



2nd and Maine Location

