



Department Source: City Utilities - Sewer/Stormwater

To: City Council

From: City Manager & Staff

Council Meeting Date: January 16, 2018

Re: Bid Call for Sinclair Road Culvert Replacement at Mill Creek

Executive Summary

Staff has prepared for Council consideration an ordinance authorizing the call for bids through the Purchasing division for the replacement of the culvert pipes at Sinclair Road and Mill Creek.

The metal culverts that carry Mill Creek under Sinclair Road are rusted and in danger of failure. This project was on the list of projects for the successful storm water ballot in 2015. A public hearing was held on April 3, 2017.

Discussion

Three metal culverts, from three to five feet in diameter currently carry the flow of Mill Creek under Sinclair Road at the first low spot in the road south of Nifong Boulevard. See attached diagram. The culverts have been failing for many years; maintenance staff has conducted two major maintenance activities to stabilize the pipes and road. In addition to failing, the culverts are undersized and regularly clog with debris from upstream, both causing roadway flooding during heavy rainfall events.

The Storm Water Utility plans to replace the metal culverts with a 24-foot wide arch structure that will span a reconstructed channel. Staff considers the arch and stabilized channel to be the lowest maintenance and most environmentally sound option. The arch structure also allows for the shortest time-frame for construction.

The work is being coordinated with a proposed pedway to be constructed along Sinclair at some point in the near future. The culvert was also designed for a future roadway widening and can be extended to accommodate that.

This work will require the closure of Sinclair Road for at least 6 weeks. Construction plans are being finalized, and construction is expected in the summer or fall of 2018.

Fiscal Impact

Short-Term Impact: The current project estimate is \$650,000 paid for by Storm Water Utility Funds.

Long-Term Impact: The maintenance burden at this location will be greatly reduced.



Vision & Strategic Plan Impact

Vision Impacts:

Primary Impact: Environment, Secondary Impact: Development, Tertiary Impact: Tertiary

Strategic Plan Impacts:

Primary Impact: Public Safety, Secondary Impact: Infrastructure, Tertiary Impact: Tertiary

Legislative History

Date	Action
04/03/2017	(PH6-17) Council authorized staff to proceed with the Sinclair Road Culvert Replacement at Mill Creek project at a Public Hearing
02/06/2017	(R8-17) Setting a Public Hearing – Sinclair Road Culvert Replacement at Mill Creek Project
10/27/2016	An interested parties meeting was held.
02/15/2016	(R20-16) Council authorized staff to enter into an agreement for professional engineering services with Allstate Consultants, LLC for design of a replacement culvert under Sinclair Road at Mill Creek.
04/07/2015	Voters approved rate increase for Storm Water Utility with this project as one of the priorities.
03/09/2015	An interested parties meeting was held.
10/24/2012	An interested parties meeting was held.

Suggested Council Action

Authorize a bid call through the Purchasing division to construct the Sinclair Road Culvert Replacement at Mill Creek project.