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7-1-09



City Council Report

Date: July 1, 2009
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Elizabeth Huning, City Engineer
Subject: Water Line & Gas Line Replacement
Drew Street – University Drive to 7th Street
Council District No. 4

Purpose and Recommendation

The purpose of this report is to provide information to the Council on the bids received for Project No. 04-046-002, Water Line & Gas Line Replacement, Drew Street – University Drive to 7th Street. (See Exhibit "A" for project location)

It is recommended that the Council award this project to the low bidder, Visus Engineering Construction, Inc. for a total award of \$624,800.00.

Background

In April of 2008, the City's Water Resources Department created a prioritized list of aging water mains that require replacement. The size, age, service history, and pipe material were all analyzed to establish which lines should be replaced first. The water main in Drew Street from University Drive to 7th Street was selected as a priority for replacement. When replacing mains, the age and condition of other adjacent City utilities are also considered because it is more economical to replace them at the same time. In this case, the adjacent gas main also required replacement.

Community Impact – Temporary impacts to the area will include construction noise, dust, traffic restrictions, and temporary water and gas service interruption (for a maximum of four hours). Once work is started, project completion is anticipated within seventy-five (75) calendar days.

Discussion

The existing water main in the project limits is 4-inch and 6-inch diameter water main constructed between 1955 and 1960, while the current City Standard is 8-inch minimum diameter. The small size of the existing water main, plus its age and break history made it a replacement priority.

This project will replace these existing mains with approximately 4,150 linear feet of new 8-inch diameter ductile iron pipe. The new water line will provide reliable water service to City customers on Drew Street. The existing water meters, water services and fire hydrants will also be replaced to comply with City standards.

The existing gas main in this area is 2-inch diameter steel pipe constructed in 1955. These lines have exceeded their design life and are being replaced within the same trench as the water main to take advantage of reduced trenching and pavement replacement costs.

Alternatives

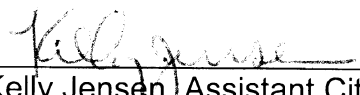
An alternative would be to not proceed with this project and not replace the aging water and gas infrastructure. This is not recommended, since the water mains in this area are undersized, susceptible to water main breaks, water service disruptions, and the water main and gas line have reached the end of their useful lives.

Fiscal Impact

The recommended total award of this project is \$624,800.00, which consists of a low bid of \$568,000.00 plus an additional \$56,800.00 (10% allowance for change orders). This project is funded from the approved FY 09/10 Water and Gas Bond Capital Programs.

Coordinated With

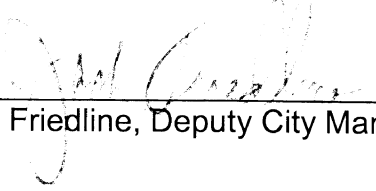
The Water Resources and Energy Resources Departments concur with this recommendation.



Kelly Jensen, Assistant City Engineer



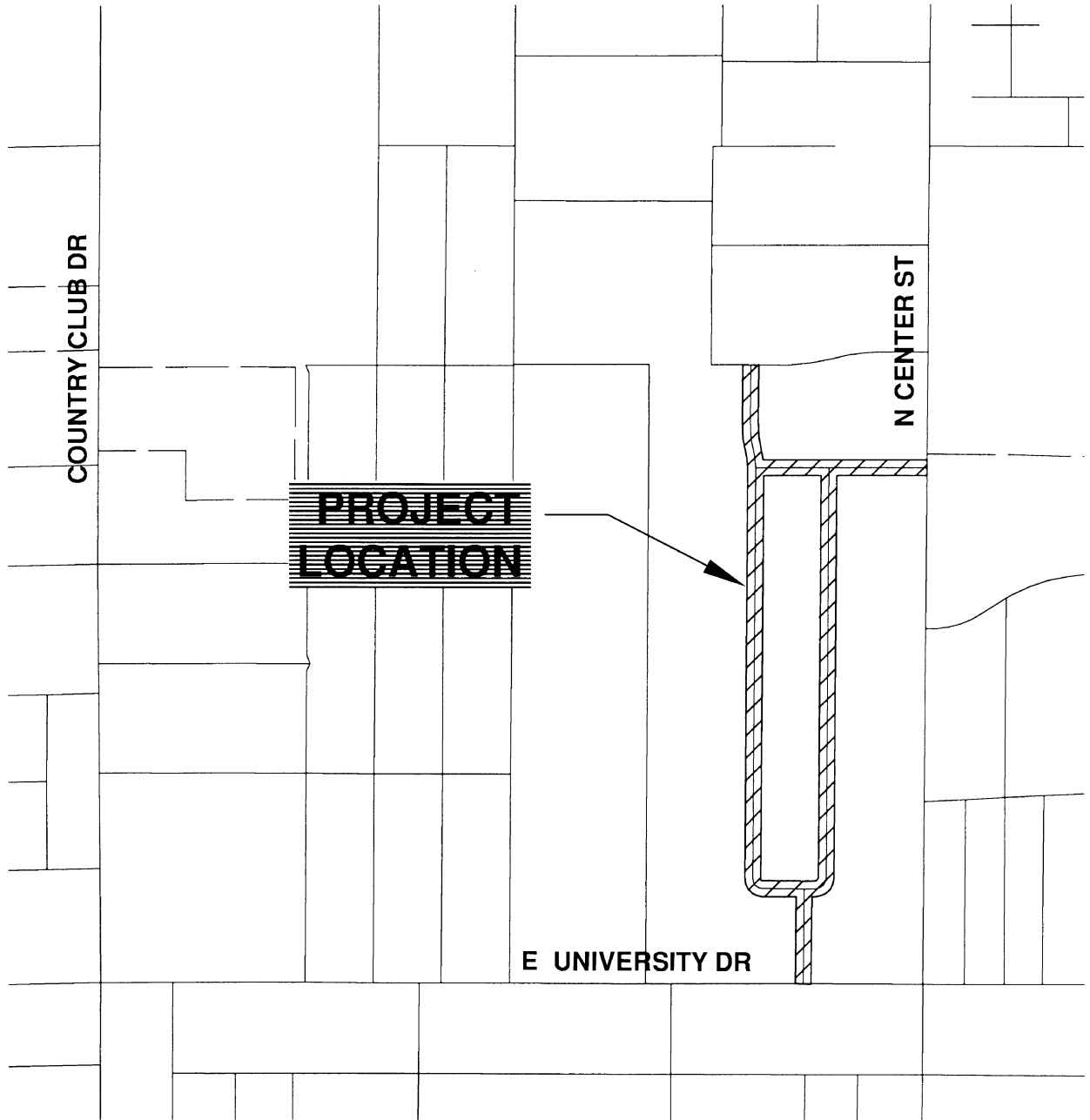
Elizabeth Huning, City Engineer



Jack Friedline, Deputy City Manager



EXHIBIT "A"



DATE SAVED: 4/20/09 1:04-046-002 DREW STREET WATER AND GAS REPLACEMENT\COUNCIL REPORTS\COUNCIL MAP.DWG

PROJECT LOCATION MAP WATER AND GAS LINE REPLACEMENT DREW ST. - UNIVERSITY DR. TO 7TH ST. PROJECT NO. 04-046-002



CITY OF MESA
MESA, ARIZONA

WATER AND GAS LINE REPLACEMENT – DREW STREET, UNIVERSITY
DRIVE TO 7TH STREET

PROJECT NO. 04-046-002

Tabulation of Bids Received, Thursday, May 28, 2009, at 1:00 P.M.

ENGINEER'S ESTIMATE	\$533,460.00
1. Visus Engineering Construction Inc.	\$568,000.00
2. NPL Construction Company	\$574,602.50
3. RK Sanders Inc.	\$575,785.00
4. Sahuaro Pipeline Corporation	\$575,930.50
5. Arizona Pipeline Company	\$579,123.75
6. Pierson Construction Corporation	\$588,200.00
7. B & F Contracting Inc.	\$588,847.50
8. Summit Builders	\$610,296.92
9. T & T Construction Inc.	\$730,825.00
10. Wheeler Construction Inc.	\$775,545.00
Spire Engineering LLC – Bid Rejected – Insufficient License	