



City Council Report

Date: November 17, 2008
To: City Council
Through: Jack Friedline, Deputy City Manager
From: Elizabeth Huning, City Engineer
Subject: Gas and Water Line Replacement in City of Mesa Quarter Section 30A
City of Mesa Project No. 02-353-001
Council District No. 4

Purpose and Recommendation

The purpose of this report is to provide information to the Council on the results of the bids received for Project No. 02-353-001, Gas and Water Line Replacement in City of Mesa Quarter Section 30A (See Exhibit "A" for project location).

It is recommended that the Council award this project to the low bidder, Pierson Construction Corporation, for a total award of \$2,557,995.00.

Background

Quarter Section 30A is bounded by west Broadway Road to the north, west 8th Avenue to the south, south Country Club Drive to the west and south Center Street to the east. The existing water lines consist primarily of 4-inch cast iron pipe (CIP) which was installed between 1939 and 1952. The fire-flow in this area is below acceptable limits and needs to be brought up to current standards. In addition, the frequency of breaks of water lines in this area has increased during the past several years and has resulted in disruption of water service, property damage, and escalating maintenance costs.

The existing gas lines consist primarily of 1.5-inch and 2-inch steel gas lines that were installed between 1938 and 1958. The frequency and severity of leaks in the area has also increased in the last several years. Also, there have been an increase in the number of gas service lines and gas meter set assemblies not up to current code requirements discovered due to building remodels that have occurred over the past fifty years.

The purpose of this project is to install a new water lines and gas lines including valves and fire hydrants, and abandon the existing water lines and gas lines in their current locations.

Community Impact – Temporary impacts to the area will include construction noise, dust, traffic restrictions, temporary water service interruption (for a maximum of four hours), and temporary gas service interruption (for a maximum of four hours). Once work is started, project completion is anticipated within one hundred fifty (150) calendar days.

Discussion

For the water portion of this project, 2,800 linear feet of new 12-inch ductile iron pipe (DIP) and 12,000 linear feet of new 8-inch DIP will be installed. The new water lines will provide reliable water service and sufficient fire flow to our customers. All existing water meters will be replaced with automated meter reading (AMR) compatible water meters. All existing water service lines and fire hydrants will be replaced.

For the gas portion of this project, 13,300 linear feet of 2-inch polyethylene (PE) gas line will be installed. The new gas lines will provide safe and reliable gas service to our customers. All existing gas meters will be replaced with AMR compatible gas meters. Many of the existing gas meter set assemblies will be relocated to new locations due to current code requirements. All existing gas service lines will be replaced.

Alternatives

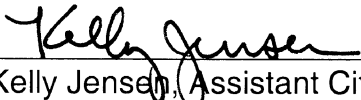
An alternative would be to not proceed with this project and not replace the aging water lines and gas lines. This is not recommended, since this area has insufficient fire flow and is susceptible to water main breaks, water service disruptions, and the water mains have reached the end of their useful life. The gas mains and services are susceptible to leaks and have also reached the end of their useful life.

Fiscal Impact

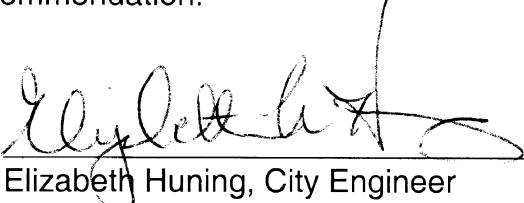
The recommended total award of this project is \$2,557,995.00, which consists of a low bid of \$2,325,450.00 plus an additional \$232,545.00 (10% allowance for change orders). This project is funded from the Adopted FY 08/09 Water Bond Capital program and Gas Bond Capital program.

Coordinated With

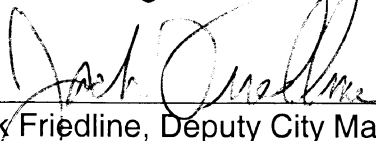
The Utilities Department concurs with this recommendation.



Kelly Jensen, Assistant City Engineer



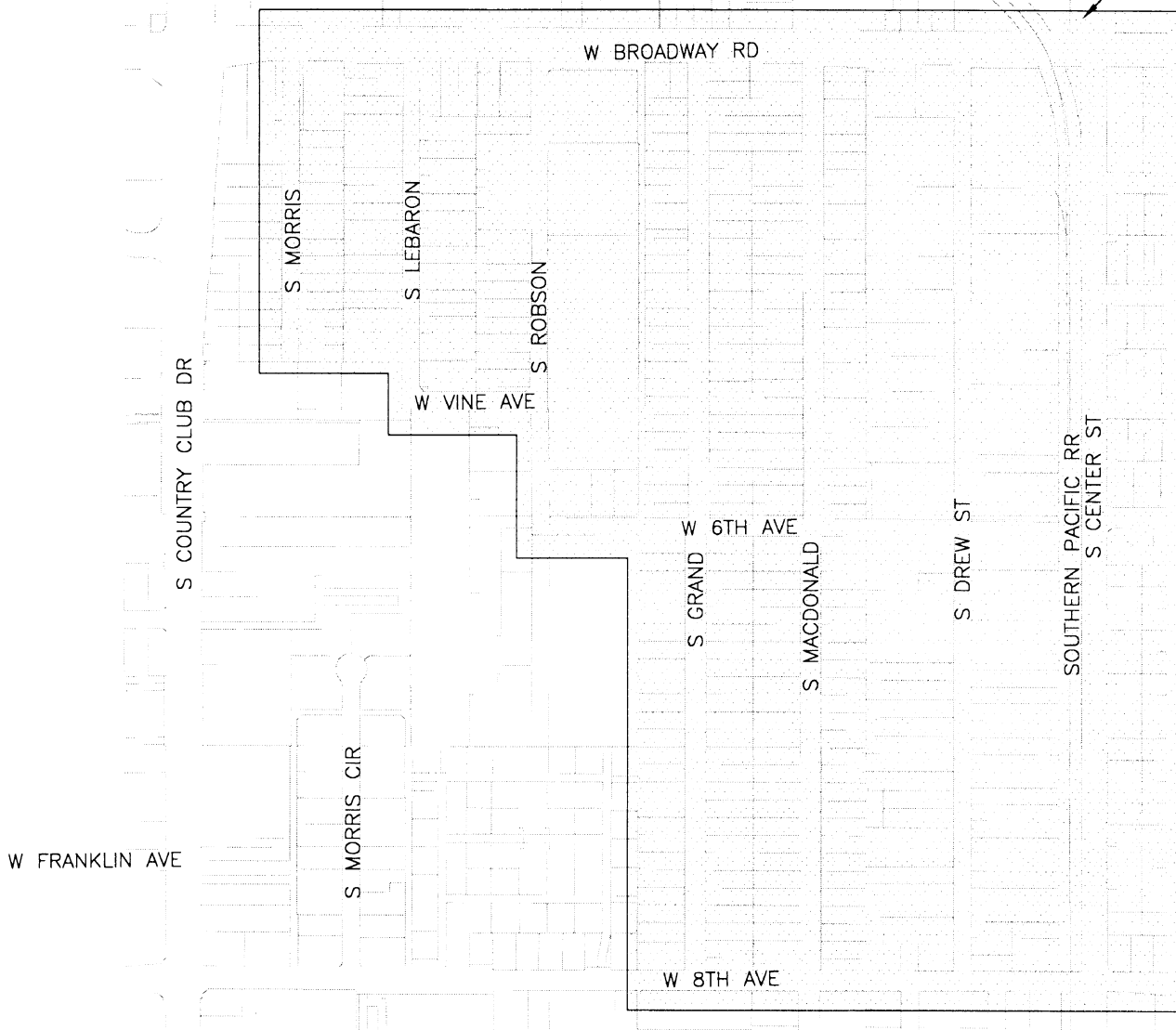
Elizabeth Huning, City Engineer



Jack Friedline, Deputy City Manager

VICINITY MAP GAS AND WATER REPLACEMENT QUARTER SECTION 30A C.O.M. PROJECT NO. 02-353-001

PROJECT
AREA



LOCATION MAP

N.T.S.

ESPROJECT/GAS/GAS DRAWINGS/Q.S. 30A REPLACEMENT/VICINITY MAP



Budget Information:
Funding from the Adopted FY 08/09 Water Bond
Capital Program and Gas Bond Capital program

CITY OF MESA
MESA, ARIZONA

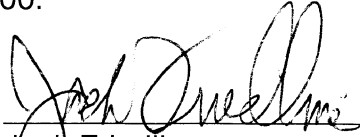
GAS AND WATER LINE REPLACEMENT
QUARTER SECTION 30A

PROJECT NO. 02-353-001

Tabulation of Bids Received, Thursday, October 23, 2008, at 1:30 P.M.

ENGINEER'S ESTIMATE	\$2,381,500.00
1. Pierson Construction Corporation	\$2,325,450.00
2. B & F Contracting, Inc.	\$2,538,290.00
3. Spire Engineering, Inc.	\$2,557,000.00
4. Visus Engineering Construction, Inc.	\$2,699,000.00
5. Shiya Strephans Contracting Co.	\$2,780,750.00
6. Arizona Pipeline Company	\$2,799,420.00
7. Talis Construction Corporation	\$2,911,675.21
8. K R Swerdfeger Construction, Inc.	\$2,930,425.00
9. Standard Construction Company, Inc.	\$3,132,350.00
10. Kelco Contracting, LLC	\$3,179,158.00
11. T & T Construction, Inc.	\$3,231,576.00
12. Blucor Contracting	Incorrect License

Recommend award to low bidder, Pierson Construction Corporation, in the amount of \$2,325,450.00 plus an additional \$232,545.00 (10% allowance for change orders) for a total award of \$2,557,995.00.



Jack Friedline
Deputy City Manager