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AGENDA 46  
ITEM  
DATE 12-8-08

## City Council Report

**Date:** December 08, 2008  
**To:** City Council  
**Through:** Jack Friedline, Deputy City Manager  
**From:** Elizabeth Huning, City Engineer  
**Subject:** Gas Main Extension (Phase 2) Arizona Farms Road from Apollo Road to Attaway Road  
Project No. 05-023-001

### **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. 05-023-001, Gas Main Extension (Phase 2), Arizona Farms Road from Apollo Road to Attaway Road (See Exhibit "A" for project location).

It is recommended that the Council award this project to the low bidder, Arizona Pipeline Company, for a total award of \$494,862.50.

### **Background**

The City's Magma natural gas system in Pinal County is fed from the El Paso Natural Gas transmission mains at two locations, the Gantzel Gate Station and the Clausen Gate Station. This project will install a new 8-inch gas transmission main in Arizona Farms Road from Attaway Road to Apollo Road to connect the southern portion of the Magma gas system to the Clausen Gate Station, which is located near Arizona Farms Road and Cumberland Road. In addition, a lower pressure 4-inch distribution line will be installed at the same time in a parallel joint trench to serve the adjacent area as it develops. It is significantly less expensive to install these lines in the same trench at once.

The gas main feeding the southern portion of the Magma system is nearing capacity and additional supply to the area is needed as identified in the City's Gas System Master Plan. Additional system capacity is needed to supply the current contracts at the new subdivisions such as Johnson Ranch. The new line will also improve system reliability. Currently, the Johnson Ranch area (which consists of about 10,000 customers) has been supplied by a single gas line and a second supply line is needed in the event the first line is taken out of service.

Community Impact – Temporary impacts to the area will include construction noise, dust and possible traffic restrictions. Once work is started, project completion is anticipated within one-hundred (100) calendar days.

## Discussion

New gas mains will be installed consisting of 9,200 linear feet of 8-inch steel gas pipe and 9,100 linear feet of 4-inch polyethylene (P.E.) gas pipe in joint trench in Arizona Farms Road from Attaway Road to Apollo Road. The new lines will provide the needed capacity and improve system reliability.

## Alternatives

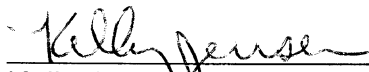
An alternative would be to not proceed with this project and not install the gas main extension. This is not recommended, since the City has agreements with adjacent developments to provide natural gas service. The increased demand on the gas system from the addition of the new customers may lead to system outages during the heating season.


## Fiscal Impact

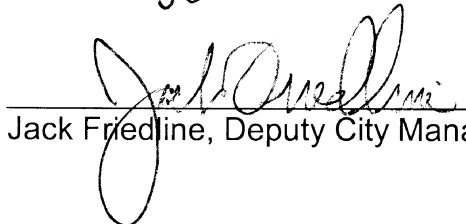
The recommended total award of this project is \$494,862.50. This consists of a low bid of \$449,875.00 plus an additional \$44,987.50 (10% allowance for change orders). This project is funded from the Adopted FY 08/09 Gas Bond Capital program.

## Coordinated With

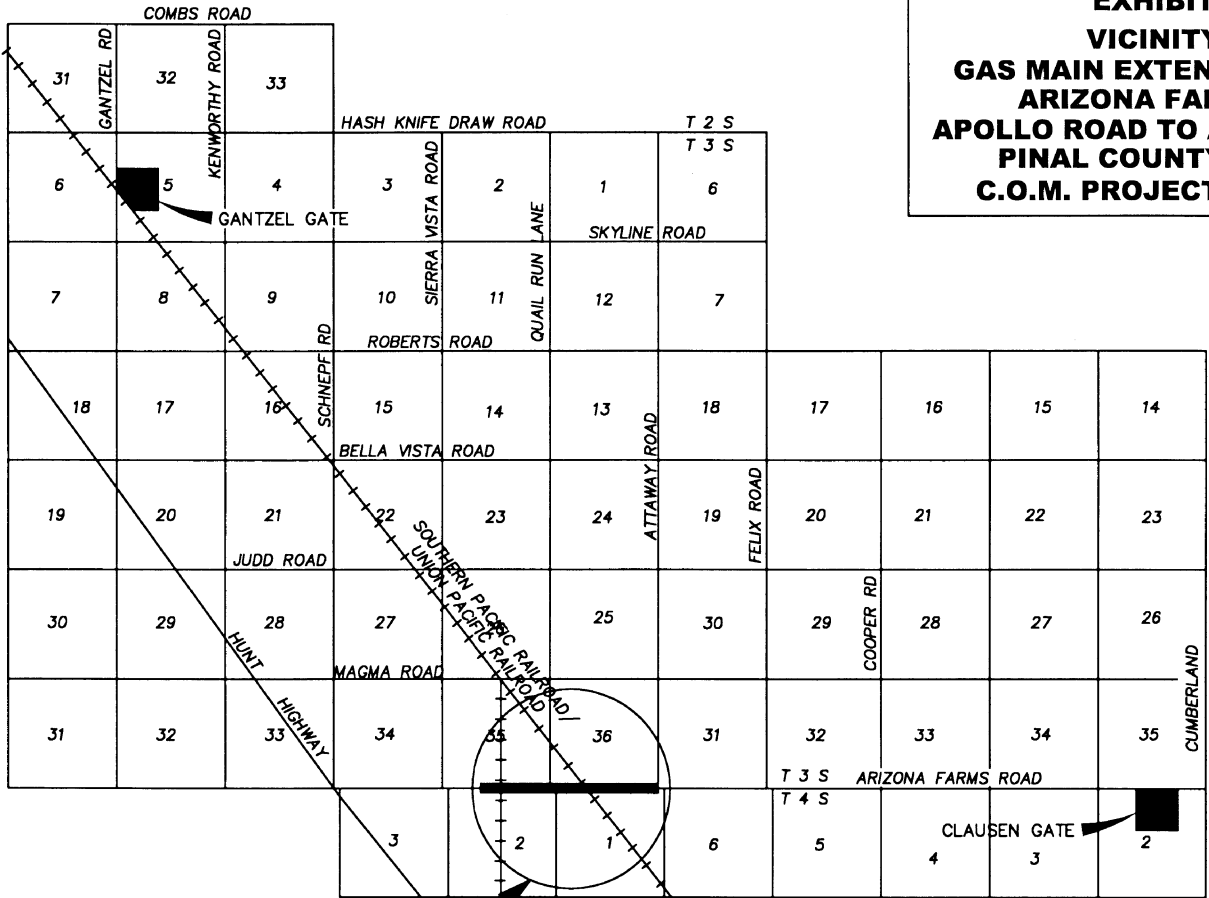
The Utilities Department concurs with this recommendation.

  
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Kelly Jensen, Assistant City Engineer

  
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Elizabeth Huning, City Engineer

  
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Jack Friedline, Deputy City Manager

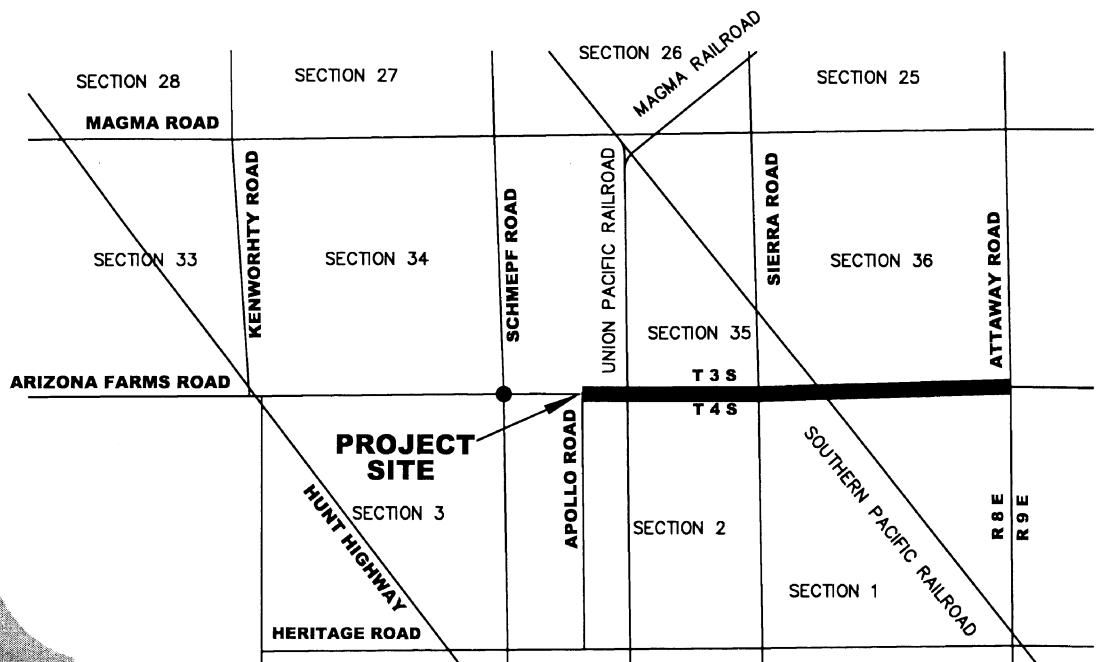
**EXHIBIT "A"**  
**VICINITY MAP**  
**GAS MAIN EXTENSION PHASE 2**  
**ARIZONA FARMS ROAD**  
**APOLLO ROAD TO ATTAWAY ROAD**  
**PINAL COUNTY, ARIZONA**  
**C.O.M. PROJECT #05-023-001**



SEE DETAIL BELOW

**VICINITY MAP**

SCALE: N.T.S.



**DETAIL MAP**

SCALE: N.T.S.



Budget Information:  
FY 08/09 Gas Bond Program

CITY OF MESA  
MESA, ARIZONA

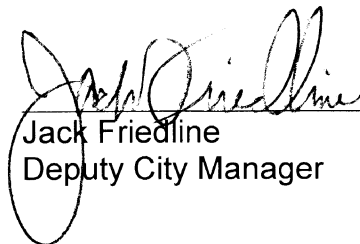
GAS MAIN EXTENSION – PHASE 2  
ARIZONA FARMS ROAD  
APPOLLO ROAD TO ATTAWAY ROAD

PROJECT NO. 05-023-001

Tabulation of Bids Received Thursday, September 18, 2008, at 1:30 P.M.

<b>ENGINEERS ESTIMATE</b>	<b>\$405,706.00</b>
1. Arizona Pipeline Company	\$449,875.00
2. Northern Pipeline Construction, Co.	\$561,460.80
3. Tempest Enterprises, Inc.	\$619,009.15
4. The Fishel Company	\$998,696.04
5. Mastec North America, Inc.	Rejected*

Recommend award to low bidder, Arizona Pipeline Company, in the amount of \$449,875.00 plus an additional \$44,987.50 (10% allowance for change orders) for a total award of \$494,862.50.

  
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Jack Friedline  
Deputy City Manager

\* Licensing Not Submitted