



# City Council Report

**Date:** August 24, 2009  
**To:** City Council  
**Through:** Jack Friedline, Deputy City Manager  
**From:** Elizabeth Huning, City Engineer  
**Subject:** ITS Traffic Signal Conversions  
Country Club Drive (McKellips Road to Baseline Road)  
City Project 03-055-001  
Council Districts 1, 3, and 4

## Strategic Initiatives



## Purpose and Recommendation

The purpose of this report is to provide information to the Council on the bids received for ITS Traffic Signal Conversions – Country Club Drive, McKellips Road to Baseline Road (see attached Exhibit “A”).

It is recommended that Council award this project to the low bidder, Kleven Construction, for a total award amount of \$1,161,634.10.

## Background

The City's Transportation Department manages a network of nearly 400 signalized intersections throughout Mesa as part of the City's Intelligent Transportation System (ITS), which is operated at the Traffic Management Center (TMC), located in the Transportation Building at 300 E. 6<sup>th</sup> Street.

There are approximately 55 traffic signals that are still connected to the City's 1980's era traffic signal management system, called *Sonex*, including 12 along the Country Club Drive corridor. This older traffic signal management system is obsolete, no longer supported by the manufacturer, and replacement parts are becoming difficult to find.

## Discussion

This project is Phase 2 of the City's Intelligent Transportation System Master Plan, and includes approximately 5½ miles of new underground conduit and fiber-optic cable along Country Club Drive from McKellips Road to Southern Avenue, and connection to an existing underground cable from Southern Avenue to Baseline Road. Also included are additional branch connections along the Broadway Access Road, University Drive, 8<sup>th</sup> Street, and Brown Road. This project will convert the 12 traffic signals still on the Sonex traffic management system to the modern system, and enhance communications to 10 other traffic signals. New closed-circuit television (CCTV) traffic monitoring cameras and video-based traffic detection systems will also be installed at major intersections.

Community Impact – This project will result in operational improvements for vehicle and pedestrian traffic along the Country Club Drive arterial corridor and provide an improved communications network for the City's traffic signal system and the TMC.

Temporary impacts during construction may include noise, dust, and traffic restrictions. No traffic restrictions will be permitted between Thanksgiving and New Year's Day for the section of Country Club Drive from Baseline Road to 8<sup>th</sup> Avenue. Once work is started, the project is anticipated to be completed in 150 calendar days.

## Alternatives

An alternative to this project would be to not construct these improvements. This would result in continued reliance on an obsolete traffic management system technology, and is not recommended.

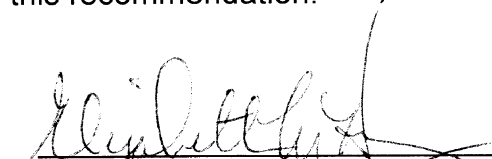
## Fiscal Impact

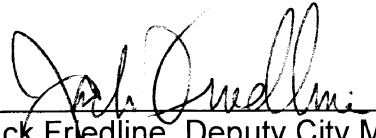
The total award for this project is \$1,161,634.10, comprised of the low bid of \$1,056,031 plus a 10% change order allowance of \$105,603.10. Funding is available in the adopted FY 09/10 Streets Bond Capital Program.

## Coordinated With

The Transportation Department concurs with this recommendation.

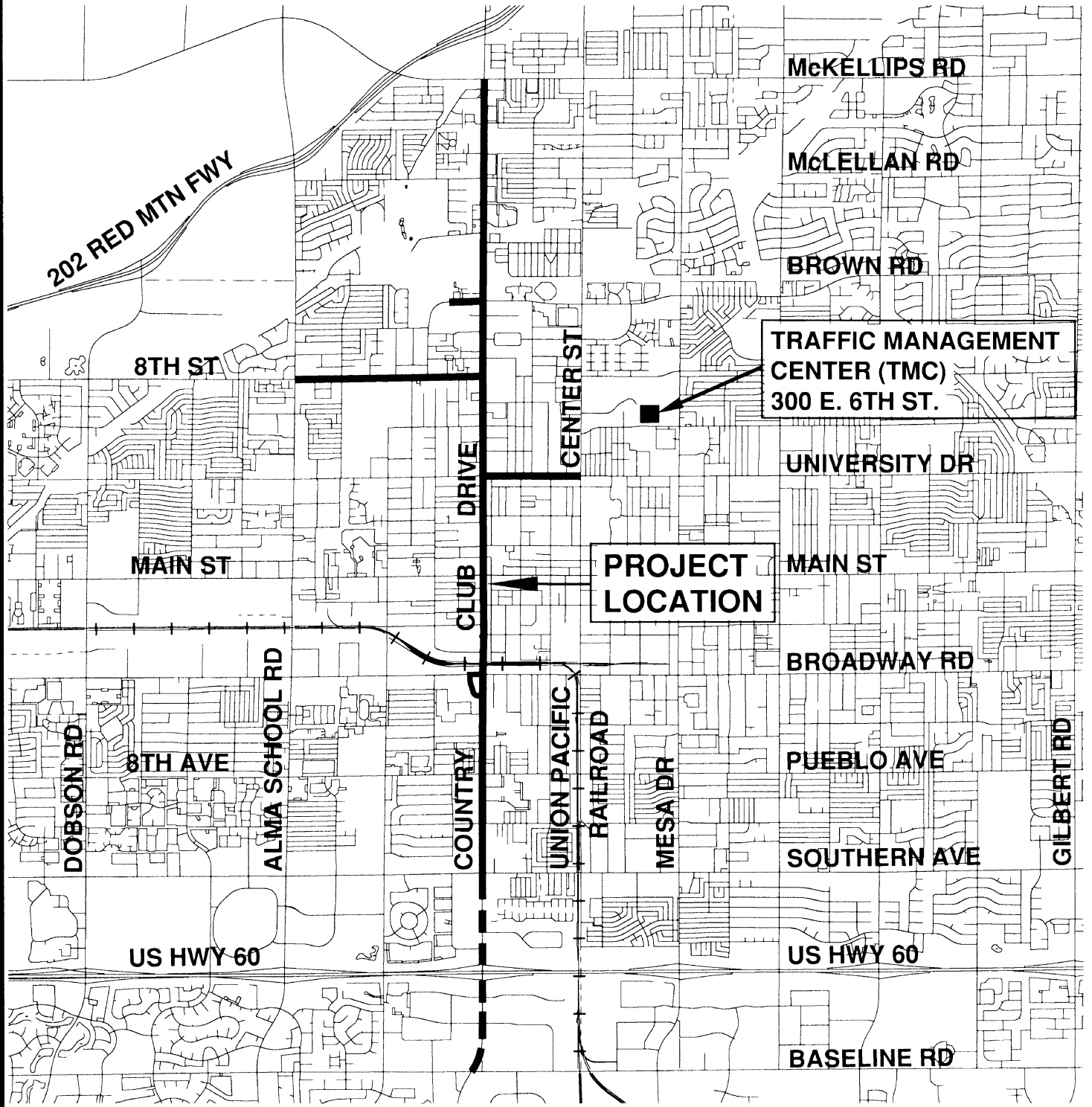
  
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Kelly Jensen, Assistant City Engineer

  
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Elizabeth Huning, City Engineer

  
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Jack Friedline, Deputy City Manager



# EXHIBIT "A" PROJECT LOCATION MAP



## ITS TRAFFIC SIGNAL CONVERSIONS PHASE 2 - COUNTRY CLUB DRIVE (MCKELLIPS RD. TO BASELINE RD.)

PROJECT NO. 03-055-001



CITY OF MESA  
MESA, ARIZONA

ITS TRAFFIC SIGNAL CONVERSIONS – PHASE 2 – COUNTRY CLUB DRIVE  
(MCKELLIPS ROAD TO BASELINE ROAD)

**PROJECT NO. 03-055-001**

Tabulation of Bids Received, Thursday, July 23, 2009, at 1:00 P.M.

<b>ENGINEER'S ESTIMATE</b>	<b>\$1,231,807.50</b>
1. Kleven Construction	\$1,056,031.00
2. Arizona Traffic Signal Inc.	\$1,090,148.75
3. Power Engineers Inc.	\$1,199,785.50
4. Han Mar Energy Inc.	\$1,272,545.25
5. CS Technologies LLC	\$1,273,528.50
6. B & F Contracting Inc.	\$1,351,901.00
7. Kimbrell Electric Inc.	\$1,410,435.27
8. Roadway Electric LLC	\$1,416,033.50
9. G U Y Construction LLC	\$1,502,472.50
10. PDI Construction	\$1,561,914.86
11. Sorensen Construction Inc.	\$1,576,646.82
12. NPL Construction Co.	\$1,691,094.00
13. Utility Construction Company Inc.	\$1,702,585.00
14. Pauley Construction Inc.	\$1,749,341.29
15. Fishel Construction Co.	\$1,813,154.07
16. Contractors West Inc.	\$1,854,478.50