

AGENDA ITEM # _____

DATE: February 23, 2015

COAC NUMBER: 15-5440

**CITY OF GOODYEAR
CITY COUNCIL ACTION FORM**

SUBJECT: Mayor execute Amendment One of Intergovernmental Agreement (JPA 14-0004967) with the State of Arizona for installation of conduit, cable and other equipment along Van Buren.	PRESENTER: Hugh Bigalk, Assistant City Traffic Engineer COMPANY: ADOT CONTACT: Cynthia Childers
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RECOMMENDATION:

Execute Amendment One of Intergovernmental Agreement (JPA 14-0004967) with the State of Arizona, acting by and through its Department of Transportation, to establish responsibility for funding, purchasing, installation and maintenance responsibilities of fiber optic conduit, cable and equipment along Van Buren Street from Estrella Parkway to Cotton Lane in the City of Goodyear.

PURPOSE:

This project will install fiber optic conduit, fiber optic cable and ITS equipment along Van Buren Street from Estrella Parkway to Cotton Lane in the City of Goodyear utilizing Congestion Mitigation and Air Quality (CMAQ) funding. It is included in the Maricopa Association of Governments' (MAG) Transportation Improvement Program (TIP) as a project to help mitigate air quality issues within the MAG Region. Once completed City staff will be able to monitor traffic, adjust traffic signal timings and coordinate traffic signals along this corridor from a central location. With this amendment to the original IGA, the scope of the project and amount of Federal funding does not change, but the City's match reduces by \$205,579.

BACKGROUND AND COMMUNITY BENEFIT:

The installation of fiber optic conduit, fiber optic cable and ITS equipment will enable real-time monitoring, adjustment to traffic signal timing and traffic signal coordination. These functions will benefit the community through the mitigation of traffic congestion and the ability to manage traffic of special events from the City's Traffic Management Center (TMC).

Van Buren Street is an arterial roadway in the City of Goodyear that is a key corridor parallel to I-10. This project will connect to the following four traffic signals:

- Van Buren Street and Estrella Parkway (Also connected to Estrella Parkway fiber optic cable)
- Van Buren Street and Sarival Avenue
- Van Buren Street and 167th Avenue
- Van Buren Street and Cotton Lane (Also connected to Cotton Lane fiber optic cable)

This project will install fiber optic conduit and fiber optic cable to connect the traffic signals at the previously mentioned intersections to the City's fiber optic backbone, in addition to installing ITS equipment that will allow for real time monitoring of traffic signals and adjustment of traffic signal timing from the City's Traffic Management Center. This project will also connect fiber optic cable along Van Buren Street to fiber optic cable along Estrella Parkway and Cotton Lane in order to provide a redundant fiber optic loop.

Upon completion of this project, mobility along this corridor is anticipated to be improved.

When this project was first envisioned in Fall 2009, the expected costs of the project were \$1,000,027. Following the MAG project prioritization process, Congress only appropriated \$749,164 for the project. Pursuant to the funding requirements, the federal government's funding is to represent 94.3 % of the costs of a programmed project subject to the appropriated amount. This requirement resulted in a City match obligation of \$45,283. Because the federal funding is capped, the City is responsible for 100% of the costs incurred over and above \$794,447. Based on the original expected project costs of \$1,000,027, this would have resulted in the City being responsible for an additional \$205,580 (\$1,000,027 - \$749,164 - \$45,282). Another contractual responsibility is the City is required to pay ADOT \$20,000 for Project Management Design Review. Based on the original expected estimated project cost of \$1,000,027, the City's obligation in the original agreement was \$270,863 (\$45,283 + \$205,580 + \$20,000).

Subsequently, the design phase of this project the cost estimate has been updated, and the total construction cost has been reduced to \$794,448. The updated cost estimate and City match has been approved in the Maricopa Association of Governments Transportation Improvement Program and these costs are reflected in the IGA amendment. Based on this updated cost estimate, the City's obligation to ADOT is estimated at \$65,284 which includes the City's match of \$45,284 in addition to \$20,000 in ADOT Project Management Design Review costs.

PREVIOUS ACTIONS AND DISCUSSION:

The project was previously approved in the FY14-18 Capital Improvement Program in FY13-14. The original intergovernmental agreement was approved by City Council on May 12, 2014.

FISCAL ANALYSIS:

Under the terms of the IGA, this project will be funded with \$749,164 in Federal-aid funding. The City's obligation to ADOT is estimated at \$65,284 which includes the City's match of \$45,284 in addition to \$20,000 in ADOT Project Management Design Review costs. These funds are currently available in the project budget.

ATTACHMENTS:

1. IGA Amendment with State of Arizona
2. Exhibit A: Traffic Signal Fiber Optic Interconnect System (as of 12/15/2014) [Map]
3. Exhibit B: Van Buren St. Initial Project Assessment [Map]