

AGENDA ITEM #: _____

DATE: November 16, 2020

CAR #: 2020-7038



CITY COUNCIL ACTION REPORT

SUBJECT: Approve an Intergovernmental Agreement with the State of Arizona for the installation of Intelligent Transportation System Equipment along Litchfield Road from MC 85 to Wigwam Boulevard and related budget transfers.

STAFF PRESENTER(S): Hugh Bigalk, City Traffic Engineer;

OTHER PRESENTER(S):

Summary: Consider approving an Intergovernmental Agreement (IGA) with the Arizona Department of Transportation (ADOT) establishing responsibility for funding, purchasing and installation of the Intelligent Transportation System (ITS) Equipment along Litchfield Road from MC 85 to Wigwam Boulevard. Also approve related budget transfers to create a \$553,100 capital project and to allocate Highway User Revenue Fund (HURF) funds and asset management funds to provide the funding needed for the city share of the project costs.

Recommendation:

1. ADOPT RESOLUTION NO. 2020-2090 APPROVING AN INTERGOVERNMENTAL AGREEMENT WITH ARIZONA DEPARTMENT OF TRANSPORTATION FOR THE PURCHASE AND INSTALLATION OF INTELLIGENT TRANSPORTATION SYSTEM EQUIPMENT ALONG LITCHFIELD ROAD FROM MC85 TO WIGWAM BLVD, PROVIDING AUTHORIZATION, DIRECTION, AND AN EFFECTIVE DATE.
2. Approve budget transfer(s) to establish a capital project and to allocate HURF and Traffic Asset Management funds to provide the city share of the project costs.

Fiscal Impact: As shown in Table 1 below, the total federal fund contribution to this project is \$487,600 and the \$65,500 city share is funded from \$54,400 budgeted in FY2021 Traffic Asset Management funds for the portions of this equipment that were planned for replacement this fiscal year. The remaining \$11,100 in funding is provided through \$1,400 in deferrals of other replacements in the Traffic Asset Management program and \$9,700 from savings in the HURF traffic signal maintenance budget. This \$9,700 represents the environmental expense and the city share of the new, rather than replacement equipment in this project.

**Table 1
Project Costs**

Item	City	ADOT (Federal)	Total
Design: ADOT Plan Review	\$ 30,000	\$ 0	\$ 30,000
Design: Environmental	6,000	0	6,000
Construction	29,500	487,600	517,100
Total Cost:	\$ 65,500	\$ 487,600	\$ 553,100

In addition to the new assets funded, the federal funded portions of the project advances \$407,900 in other replacements by one to six years. These advancements may result in increases in General Fund contributions to that asset management fund for several years. However, this is a one-time effect of the advancements.

Along with the McDowell Road – SR303 to ¼ West of Dysart Road project (Project 42033), also on this agenda (CAR 2020-7037), these projects represent the use of the remaining special census funds that are due to the city.

Because the project cost is in excess of \$100,000 this meets the criteria to be budgeted and accounted for as a capital project. Budget transfers are required to create the capital project using the federal funds and the HURF and Traffic asset management funds to the new Litchfield Road ITS Project (Project 42032).

Table 2 below provides the planned completion dates for the phases and is anticipated to be complete by June 2021.

**Table 2
Project Schedule**

Phase	Start	End
Design	November 2020	January 2021
Construction	February 2021	June 2021

The City is responsible for the operation and maintenance of the ITS Equipment which is included in the HURF base operating budget and future replacements will be incorporated into the Traffic Signal Asset Management Plan.

Background and Previous Actions

On September 14, 2015, City Council approved the use of the City's allotment of Maricopa Association of Governments (MAG) Special Census Funds, totaling \$785,000, for the Elwood

Street/Cotton Lane/Estrella Parkway/Elliot Road Fiber Optic Interconnect Project (COAC #15-5666). The project received MAG End of Year Close Out Funding and the special census funds were not used.

Staff Analysis

In June 2019 the MAG issued a call for qualified ITS Projects. The City submitted multiple projects and the Litchfield Road ITS Equipment Project was not approved for Congestion Mitigation and Air Quality (CMAQ) projects. The City requested MAG fund the project utilizing the City's special census funds and it was approved by MAG Regional Council in April 2020.

The project will replace existing, outdated traffic signal controllers and video detection equipment at sixteen intersections and installed vehicle travel time hardware at thirteen intersections along Litchfield Road. The new traffic signal controllers and video detection systems will modernize the City's traffic signals by providing enhanced performance and diagnostic information to the City's TMC. The vehicle travel time hardware will allow TMC staff to measure performance of the coordinated arterial roadways and report their performance. It will also allow TMC staff to evaluate and adjust traffic signal coordination based on how traffic is moving along Litchfield Road.

Payment of \$30,000 for Project Development Administration (PDA) costs plus the City's matching funds of \$29,500 for equipment costs are due to ADOT 30 days after execution of the IGA. Design of the project will be performed by City of Goodyear staff and the environmental analysis performed by a consultant which is estimated to cost \$6,000. The City will coordinate with ADOT during the procurement of the equipment. The equipment will be installed by City staff and the City will be reimbursed by ADOT for the federal fund contribution for the project. The project will take place in FY2021 with an estimated cost of \$572,100, which includes \$487,600 of federal funding which will be reimbursed by ADOT. The project is anticipated to be completed by the end of FY2021. If the PDA costs or overall project costs exceed the initial estimates then the City will be responsible for any additional costs above the initial estimates.

Attachments

Resolution No. 2020-2090
Intergovernmental Agreement
Exhibit A