



City Council Report

Date: May 2, 2022
To: City Council
Through: Scott J Butler, Deputy City Manager
From: R.J. Zeder, Transportation Department Director
Erik Guderian, Deputy Transportation Director
Maria Angelica Deeb, Transportation Projects Coordinator
Subject: Connected Vehicle Intelligent Transit and freight Signal Priority project
Intergovernmental Agreement between Maricopa County and the City of Mesa

Purpose and Recommendation

The purpose of this report is to request the approval of a Resolution authorizing the City Manager to enter into an Intergovernmental Agreement (IGA) between the Maricopa County (County) and the City of Mesa (City).

The IGA is for identification of the funding and the roles and responsibilities of the City are listed with respect to the Project's design, construction, operation & management and ownership.

Staff recommends that Council approve this Resolution, authorizing Staff to participate in the design and construction of this signal prioritization, and own, operate and maintain the equipment installed within the City's jurisdiction as part of this Project upon completion of the Project.

Background

The Maricopa Association of Governments (MAG) System Management and Operations (SM&O) Plan identified as a regional priority the installation and configuration of roadside unit (RSU) devices at traffic signals along MC-85/Buckeye Road between 107th Ave (MC-85 corridor) and 59th Ave Rural Road between Loop 202 Red Mountain Freeway and US 60, and Power and Sossaman Road between Loop 202 Santan and ASU Polytechnic Campus/Innovation Way.

This project will install such traffic signal devices and upgrade traffic signal controllers as needed to support connected vehicle (CV) applications. Development, integration, and configuration of the Multimodal Intelligent Traffic Signal System (MMITSS) application at equipped traffic signals will also be included in this project.

Discussion

Mesa would participate at no cost to the City. There is no increased liability or significant maintenance cost. Mesa will be adding communication via DSRC radio between the traffic signal cabinet and a vehicle. This will potentially add efficiency for transit signal priority but the ultimate control over the traffic signal will remain as it exists today with the traffic signal controller and the malfunction monitor in the cabinet as the safety features. There is no additional cost as the existing Mesa cabinets need no upgrades to support the new traffic signal devices.

Alternatives

The City Council could choose not to enter into this IGA. The City's lack of participation would prevent the City from ensuring the deployment of the traffic signal devices that could increase the City's communication and improve traffic signal prioritization.

Fiscal Impact

There is no financial impact to the City.

Coordinated With

This Agreement has been coordinated with the Maricopa Association of Governments and the Maricopa County Department of Transportation.