



## Recommendation for Action

**File #:** 19-2292, **Agenda Item #:** 75.

6/19/2019

### Posting Language

Approve an ordinance authorizing negotiation and execution of an Advance Funding Agreement with the Texas Department of Transportation for the design and installation of traffic signal detection, amending the Fiscal Year 2018-2019 Austin Transportation Department Operating Budget Special Revenue Fund (Ordinance No. 20180911-001) to accept funds from the Texas Department of Transportation in the amount of \$8,960,000; and amending the Austin Transportation Department Capital Budget (Ordinance No. 20180911-001) to transfer in and appropriate \$8,960,000 for the design and installation of this project.

### Lead Department

Austin Transportation Department

### Fiscal Note

Funding in the amount of \$8,960,000 is available from the Texas Department of Transportation. A City funding match of \$2,240,000 is required and available in the FY2018-2019 Austin Transportation Department's Capital Budget. A fiscal note is attached.

### Prior Council Action:

Resolution No. 20171214-056 authorized the submittal of a list of potential transportation projects for the Capital Area Metropolitan Planning Organization (CAMPO) 2019-2022 Call for Projects. Approved on a 10-0 vote with Council Member Troxclair off the dais.

### For More Information:

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### Council Committee, Boards and Commission Action:

N/A

### Additional Backup Information:

The purpose of this item before Council is to authorize negotiation and execution of an Advance Funding Agreement and to accept and appropriate funds to complete the design and installation of additional traffic signal vehicle detection at intersections throughout the city. This project will expand the number of signalized intersections with aerial vehicle detection.

The City of Austin currently maintains over 1,000 signalized intersections within its jurisdiction. This project will fill in gaps where detection is missing, and upgrade locations to aerial detection to improve mobility and reliability.

Part of this project will be to upgrade some locations with existing loop detection to aerial detection. Loop detection, which is installed in the street pavement, is effective but is subject to being damaged with any maintenance or construction activities that disrupt the pavement or curblin in the area of the loop. Also, loops must be physically changed if there is a change to the road or lane configuration. Repeated loop

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reconfiguration or repair diminishes life and integrity of the pavement. Replacing existing loops with aerial detection provides for flexibility if there is a change to lane configurations and is not impacted by street surface disruptions.

Expanding the number of intersections with aerial vehicle detection (both replacement of existing loops and the addition of new detection) improves reliability, mobility and safety. Vehicle detection allows signals to function more effectively by adjusting the signal timing based on the congestion at that intersection; which can vary significantly by the time of day. Aerial detection can be set up and maintained remotely by the City's Transportation Management Center operators.

CAMPO has awarded the project federal funding under the Surface Transportation Program Metropolitan Mobility program in amount up to \$8,960,000. Local match funding of \$2,240,000 is available in the Fiscal Year 2018-2019 Austin Transportation Department Capital Budget. Final grant and local match funding amounts are dependent upon actual costs of implementation of this project. Project design and implementation is managed by the Austin Transportation Department.

This project is located within all council districts city-wide.