



Recommendation for Action

File #: 19-1973, **Agenda Item #:** 73.

6/20/2019

Posting Language

Approve an ordinance authorizing negotiation and execution of an Advance Funding Agreement with the Texas Department of Transportation for the design and implementation of an Emergency Vehicle Preemption system; 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 \$5,824,000; and amending the Austin Transportation Department Capital Budget (Ordinance No. 20180911-001) to transfer in and appropriate \$5,824,000 for design and implementation of this project.

Lead Department

Austin Transportation Department

Fiscal Note

Funding in the amount of \$5,824,000 is available from the Texas Department of Transportation. A City funding match of \$1,456,000 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:

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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 design and implement citywide Emergency Vehicle Preemption and allow for broader deployment of transit signal priority.

This project will provide for preemption capabilities at all city-controlled signalized intersections within the city (approximately 1,000 signals). With this preemption system, an emergency vehicle will send a message to the traffic signal ahead of its arrival at the intersection, indicating that it is responding to an emergency. The signal will adjust the signal phasing to provide the emergency vehicle with a green light through the intersection.

Implementing the proposed emergency vehicle preemption (EVP) system provides the city with improved safety and versatility in the management of the signal system. EVP increases safety by reducing emergency vehicle response times. Research shows that deployment of EVP can result in a 30-56 second delay decrease per signal. EVP also increases safety by reducing the risk of injury and property damage to EMS and AFD staff and vehicles due to collisions in intersections. Displaying a red light to opposing traffic at the

intersection as an emergency vehicle is approaching reduces the risk to the driving public. Implementation of Transit Signal Priority (TSP) software improvements will improve mobility by allowing for broader signal priority for transit vehicles. This gives the city the ability to better manage signal operations during daily rush hour, as well as off peak times or during an incident. Included in this project is a communication vulnerability assessment and system upgrades and expansion, since reliable communications to signals is critical to successful deployment of EVP and TSP.

CAMPO has awarded the project federal funding under the Surface Transportation Program Metropolitan Mobility program in amount up to \$5,824,000. The City is providing a local match in the amount of up to \$1,456,000 from funding 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.