

**CITY OF TEMECULA
AGENDA REPORT**

TO: City Manager/City Council

FROM: Patrick Thomas, Director of Public Works/City Engineer

DATE: December 13, 2022

SUBJECT: Authorize the Purchase of Traffic Equipment for the Emergency Vehicle Pre-Emption Upgrade Program, Flashing Beacons & Speed Advisory Signs, and the Traffic Signal Equipment Enhancement Program for the Department of Public Works - Traffic Division

PREPARED BY: Anissa Sharp, Management Assistant
Nick Minicilli, Senior Traffic Engineer

RECOMMENDATION: That the City Council authorize the purchase of traffic equipment for the Emergency Vehicle Pre-Emption Upgrade Program, Flashing Beacons & Speed Advisory Signs, and the Traffic Signal Equipment Enhancement Program for the Department of Public Works - Traffic Division, in the amount of \$600,000.

BACKGROUND: On June 14, 2022, The City Council adopted the Capital Improvement Program (CIP) for Fiscal Years 2023-2027. The Department of Public Works – Traffic Division has thoroughly assessed the condition and efficiency of multiple traffic components and determined that upgrades to various equipment are necessary to effectively enhance and improve traffic operations throughout the city. After considerably review, the Traffic Division obtained cost estimates and quotes from multiple vendors for the purchase of highly specialized and proprietary equipment associated with each Capital Improvement Program project as outlined below.

The Emergency Vehicle Pre-Emption Upgrade Program will enhance and upgrade emergency vehicle pre-emption equipment at various signalized intersections Citywide. The project includes upgrade of pre-emption optical detectors, wiring, and optical processor cards to improve emergency vehicle response times. This project enhances traffic safety and supports the long-term maintenance and rehabilitation of City assets and infrastructure.

The Flashing Beacons & Speed Advisory Signs Circulation Project maintains the City's Neighborhood Traffic Calming Program, School Area Safety, and Arterial Traffic Calming by installing flashing beacons, rectangular rapid flashing beacons (RRFB) and speed advisory signs to advise motorists of school zones, crosswalks, and speed limits. This project improves traffic safety on roadways, neighborhoods, and school zones.

The Traffic Signal Equipment Enhancement Program includes the enhancement and upgrade of existing traffic signal equipment at various signalized intersections citywide. This includes

replacement of traffic signal controllers, battery back-up systems, Light Emitting Diode (LED) traffic signal indications, traffic signal controller cabinets, service cabinets, safety street lighting, signal communication equipment, and fiber optic cable. This project also aims to upgrade existing traffic signal conductors including conduit, service conductors, and detector cable to comply with current standards.-This project enhances traffic safety and supports the long-term enhancements and rehabilitation of City assets and infrastructure.

All purchases with manufacturers and suppliers for materials, parts, and equipment are as required to provide continuity and standardization of all traffic components to effectively maintain traffic circulation operations, and are associated with each of the various capital improvement projects, as follows:

Project	Vendor	Amount
Emergency Vehicle Pre-Emption Upgrade Program	NexTech Systems, Inc.	\$105,000
Flashing Beacons & Speed Advisory Signs	NexTech Systems, Inc.	\$70,000
Traffic Signal Equipment Enhancement Program	Swarco McCain Inc.	\$175,000
Traffic Signal Equipment Enhancement Program	Western Systems Inc.	\$130,000
Traffic Signal Equipment Enhancement Program	Battery Systems Inc.	\$120,000

FISCAL IMPACT: Adequate funds are available in each of the project budgets, as identified in the Capital Improvement Program for Fiscal Years 2023-2027.

ATTACHMENTS: None