LIVERMORE
CALIFORNIA

CITY COUNCIL STAFF REPORT **ITEM NO. 6.8**

DATE: September 14, 2026

TO: Honorable Mayor and City Council

FROM: Brent Smith, Community Development Director

SUBJECT: Resolution authorizing filing an application for Alameda County Transportation Commission administered funding of $4,566,000 for the Citywide Traffic Signal Upgrade and Interactive Dashboard Project TC202020 via the 2028 Comprehensive Investment Plan and committing any necessary matching funds and stating assurances to complete the project.

RECOMMENDED ACTION

Staff recommends the City Council adopt a resolution authorizing the filing of an application for Alameda County Transportation Commission administered funding of $4,566,000 for the Citywide Traffic Signal Upgrade and Interactive Dashboard Project TC202020 via the 2028 Comprehensive Investment Plan and committing any necessary matching funds and stating assurances to complete the project.

SUMMARY

The City of Livermore (City) is a recipient of discretionary local funding administered by the Alameda County Transportation Commission (ACTC) via Comprehensive Investment Plan (CIP). The 2028 CIP funding is available for technology projects and requires the project to be programmed in the Alameda County 2026 Countywide Transportation Plan (CTP). In addition, the local City Council must approve the request for application of the 2028 CIP funding.

The Citywide Traffic Signal Upgrade and Interactive Dashboard Project TC202020 will modernize signalized intersections along several major corridors in Livermore by deploying an integrated Intelligent Transportation System (ITS) that combines advanced traffic detection systems, upgraded communications infrastructure, Advanced Transportation Controller (ATC) cabinets and controllers, and a centralized traffic management dashboard. The project will transform conventional traffic signals into connected, smart intersections to enhance transportation safety, operational efficiency, mobility, and environmental sustainability.

Staff recommends the City Council authorize filing an application request for $4,566,000 in 2028 CIP funding for the Citywide Traffic Signal Upgrade and Interactive Dashboard Project TC202020, commit $1,523,000 of matching funds, and state assurances to complete the Project. Staff is requesting

authorization to file grant applications for two additional projects (Isabel Pedestrian Bridge and Trail Project TB202618 and East Avenue Corridor Active Transportation Plan Implementation Project TB202222) as separate Council items at this meeting.

DISCUSSION

The CIP is Alameda County Transportation Commission's (CTC) near-term strategic planning and programming document through which fund sources administered by Alameda CTC are programmed through a consolidated process to maximize investments in transportation infrastructure and program operations needs that are essential for enhancing, developing, and maintaining the county's multi-modal transportation system.

The 2028 CIP includes a call for projects for $200 million in combined Alameda CTC-administered discretionary local funding sources, including Measures B and BB (MB/MBB), Vehicle Registration Fee (VRF), Transportation Fund for Clean Air (TFCA), I-580 Toll Revenues, federal One Bay Area Grant Program Cycle 4 (OBAG 4), and Community Action Resource and Empowerment (CARE) funding for eligible capital projects and programs within Alameda County.

The eligible project categories include:

- Bicycle and/or pedestrian capital projects and programs
- Complete streets capital and road improvement projects
- Transit-related capital projects
- Shuttle and other program operations
- Technology projects
- Plans

The eligible projects and programs must be included in or wholly consistent with the CTP project list and meet the required minimum match. In addition, a separate governing body-approved resolution of local support is required to be submitted with each 2028 CIP application. Available funding will be prioritized for eligible projects that can demonstrate construction readiness or begin operations within the first two years of the 2028 CIP (FY 2027-28 and FY 2028-29).

Based on the above requirements, staff recommends the City Council authorize the filing of an application request for $4,566,000 in 2028 CIP funding for the Citywide Traffic Signal Upgrade and Interactive Dashboard Project TC202020.

The Citywide Traffic Signal Upgrade and Interactive Dashboard Project will modernize the City's traffic signal infrastructure by replacing outdated video detection cameras with advanced AI-enabled traffic detection systems. These new systems will improve roadway safety through enhanced detection capabilities, including advanced dilemma zone detection and more reliable detection of bicyclists and pedestrians.

The project will also install cellular communications infrastructure at signalized intersections where fiber and radio communications are either not feasible or not providing a good benefit-cost ratio.

In addition, the project will replace obsolete traffic signal cabinets with ATC cabinets. These upgraded cabinets are designed to support emerging transportation technologies, including connected and

autonomous vehicles, and enhance the long-term adaptability of the City's traffic management system. Traffic signal controllers will also be upgraded to provide full compatibility with the ATC platform. To further improve accessibility and meet current standards, existing pedestrian push-button systems will be upgraded with Accessible Pedestrian Signal (APS) devices, providing safer and more accessible crossing assistance for individuals with disabilities.

The video detection system replacement and cellular communications infrastructure are ready for construction pending available funding. The design for cabinet replacements will commence as soon as funding becomes available and is expected to be completed within six months. The project scope and schedule meet the requirements of the 2028 CIP funding.

FISCAL AND ADMINISTRATIVE IMPACTS

The Citywide Traffic Signal Upgrade and Interactive Dashboard Project are currently included in the 2025-2030 Capital Improvement Plan as Traffic Signal Modification Project TC202020 and funded with a total of $300,000 from Measure BB-Local Street & Road (Fund 552). This 2028 CIP funding of $4,566,000 will augment the existing budget and help reduce the amount needed from the current funding source. Existing project funds are insufficient to provide the required $1,523,000 local match for the 2028 CIP funding. Budget adjustments and roadway funding appropriations will be requested if grant funds are awarded for the project.

COMMUNITY PILLAR

1: A Safe Community That Thrives

GOAL

10: Work to maintain a safe and efficient local transportation network and address safety concerns

ATTACHMENTS

1. Project Location Map
2. Resolution

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Fiscal Review by:

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