



**TOWN OF LOS GATOS
COUNCIL AGENDA REPORT**

MEETING DATE: 1/19/2021

ITEM NO: 4

DATE: January 4, 2021
TO: Mayor and Town Council
FROM: Laurel Prevetti, Town Manager
SUBJECT: Smart Signals Field Improvements (CIP No. 813-0227 Traffic Signal Modernization):
a. Approve the Plans and Specifications;
b. Authorize Advertising the Project for Bid;
c. Authorize the Town Manager to Award and Execute a Construction Agreement in an Amount Not to Exceed \$750,000, Including Contingencies and Change Orders; and
d. Authorize Staff to Execute Future Change Orders in an Amount not to Exceed Ten Percent of the Contract Award Amount.

RECOMMENDATION:

Staff recommends that the Town Council authorize the following actions for the Smart Signals Field Improvements as part of the Traffic Signal Modernization Project (CIP No. 813-0227):

- a. Approve the Plans and Specifications;
- b. Authorize advertising the project for bid;
- c. Authorize the Town Manager to award and execute a construction agreement in an amount not to exceed \$750,000, including contingencies and change orders; and
- d. Authorize staff to execute future change orders in an amount not to exceed ten percent (10%) of the contract award amount.

BACKGROUND:

Town staff began the Traffic Signal Modernization Project in 2018, also referred to as the Smart Signals Project, which would upgrade the Town owned and operated traffic signals (31 in total) and enhance the signal systems with state-of-the-art adaptive technologies. The project is

PREPARED BY: WooJae Kim
Town Engineer

Reviewed by: Town Manager, Assistant Town Manager, Town Attorney, Finance Director, and Parks and Public Works Director

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SUBJECT: Smart Signals Field Improvements (CIP No. 813-0227 Traffic Signal Modernization)

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BACKGROUND (continued):

funded by the Town's Traffic Mitigation Fee program and grants from the Santa Clara Valley Transportation Authority (VTA) and the Metropolitan Transportation Commission (MTC), including the Innovative Deployments to Enhance Arterials (IDEA) grant, for a total project budget of approximately \$2.9 million.

At the December 17, 2019 meeting, the Town Council authorized the Town Manager to proceed with a multi-step procurement process for various components of the project. Subsequently, staff issued two Requests for Proposals (RFPs), one for Adaptive Signal Control and Advanced Traffic Management Systems (ATCS-ATMS) and the other for the design of the Smart Signals Field Improvements. At the May 19, 2020 meeting, Council awarded the design contract for the field improvements to Iteris, Inc. The ATCS-ATMS vendor contract was awarded to Econolite Systems at the June 2, 2020 Town Council meeting.

Field improvements are necessary to upgrade the Town's traffic signals infrastructure and network connectivity to accommodate an adaptive system, which would allow monitoring and control of its operations and performance from a centralized location referred to as the Traffic Management Center (TMC). As part of the Smart Signals Field Improvements, the Town's TMC will be located within the Parks and Public Works Engineering Building at 41 Miles Avenue.

DISCUSSION:

The Plans and Specifications for the Smart Signals Field Improvements are now completed and ready for bid. The field improvements would improve the Town traffic signals infrastructure and network connectivity required to operate an adaptive systems technology to better coordinate signals along the arterials, reduce signalized intersection delays, and achieve higher overall performance. The scope of work for the proposed construction project will:

1. Furnish and install fiber optics cable and equipment to connect Town traffic signals to a high-speed communications network;
2. Provide cellular wireless connectivity for three (3) signaled intersections not connected to the fiber optics or copper signal interconnect network;
3. Enable the ATCS-ATMS to collect data, provide adaptive/responsive coordination to handle complex travel flow patterns, and allow centralized signal operations and monitoring from the Town's TMC in real-time;
4. Furnish and install new video detection systems at Blossom Hill Road and Cherry Blossom Lane and at Blossom Hill Road and Camellia Terrace intersections; and
5. Upgrade ten (10) pedestrian crossing signal heads along Los Gatos Boulevard to countdown display types.

The Plans and Specifications for the project can be viewed on the Town website at <http://www.losgatosca.gov/108/Capital-ImprovementProgram>.

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DISCUSSION (continued):

The engineer's estimate for this project is \$750,000, including a 10% construction contingency, which is within the project budget. There are sufficient funds available for this project through the Town's adopted Fiscal Year (FY) 2020/21 – 2024/25 Capital Improvement Program (CIP) Budget. Field improvements is on the critical path of the Traffic Signal Modernization Projects and will be funded by non-federal project funds.

Once authorized by the Town Council to advertise for bid, the following is the anticipated schedule for the project:

<u>Milestones</u>	<u>Anticipated Timeline</u>
Advertise the Project for Bid	January 22, 2021
Bids Due	February 18, 2021
Award and Execute Agreement	March 2021
Start Construction	April 2021
Anticipated Completion	November 2021
Complete ATCS-ATMS Integration	Early 2022

CONCLUSION:

Approval of the recommendations will allow this project to move forward with the procurement and award process to start the field improvements component of the Traffic Signal Modernization.

COORDINATION:

This report was coordinated with the Town Attorney and the Finance Department.

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FISCAL IMPACT:

Traffic Signal Modernization (CIP No. 813-0227) in the FY 2020/21 – 2024/25 CIP Budget has sufficient funds for the contract.

Traffic Signal Modernization Project 813-0227		
	Budget	Costs
Grant Fund	\$1,826,400	
Traffic Mitigation	\$1,103,289	
Total Project Budget	\$2,929,689	
Proposed Field Construction		\$750,000
ATCS-ATMS Vendor (Econolite)		\$581,649
Project Management (W- Trans)		\$200,000
Design of Field Elements (Iteris)		\$135,390
Staff Costs		\$129,280
Misc. Prior Year Expenditures		\$76,523
Project Costs Committed		\$1,936,817
Available Balance		\$992,872

ENVIRONMENTAL ASSESSMENT:

Alterations to existing roadway facilitates are defined under CEQA Section 15301(c) as Categorically Exempt. A Notice of Exemption is to be filed.