



Legislation Text

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Report regarding a resolution authorizing the City Manager to execute a professional services contract with Traffop Corp of Scottsdale, Arizona to procure an automated traffic signal performance measures (ATSPM) system for the East of 101 Traffic Signal Improvements Project (Project No. tr1902) in an amount not to exceed \$278,410. (*Bianca Liu, Senior Engineer*)

RECOMMENDATION

Staff recommends that City Council adopt a resolution authorizing the City Manager to execute a professional services contract with Traffop Corp of Scottsdale, Arizona to procure an automated traffic signal performance measures (ATSPM) system for the East of 101 Traffic Signal Improvements Project (Project No. tr1902) in an amount not to exceed \$278,410.

BACKGROUND/DISCUSSION

In 2017, MTC issued a call for projects for a new regional grant program called Innovative Deployments to Enhance Arterials (IDEA). In September 2017, in response to the call for projects through MTC, staff submitted a Category 1 grant application for the East of 101 Traffic Signal Improvements Project (Project No. tr1902), which would include implementation of a Variable Lane Assignment (VLA) and procurement of an Automated Traffic Signal Performance Measures (ATSPM) System. In February 2018, staff was notified the City's application was approved for grant funding.

On September 12, 2018, the City Council adopted Resolution No. 149-2018 and 152-2018, authorizing the City Manager to execute the Funding Agreements for the IDEA Category 1 Project with MTC, as part of the East of 101 Traffic Signal Improvements Project (Project No. tr1902).

The IDEA program was designed as a funding opportunity to support agencies to deploy advanced technologies along arterials to enhance mobility, sustainability, and safety across all modes of transportation. The core goals of IDEA are to:

1. Improve travel time and travel time reliability along arterials for autos and transit vehicles;
2. Improve safety of motorists, transit riders, bicyclists, and pedestrians;
3. Decrease motor vehicle emissions and fuel consumption; and
4. Improve knowledge of and proficiency in the use of advanced technologies for arterial operations.

The East of 101 Traffic Signal Improvements Project (Project No. tr1902) proposes to improve arterial operations and enhance safety at signalized intersections throughout the City starting with the East of 101 area by deploying an Automated Traffic Signal Performance Measures (ATSPM) system. This project will deploy an ATSPM system at 33 signalized intersections along several corridors in South San Francisco that either parallel US 101, or feed into it. These corridors are critical to the City and region considering they serve as de facto bypass routes to the I-380 and US 101 freeways in the event of incidents or major congestion. In addition to this project, the City is implementing other transportation technology enhancements in the project area aimed at moving traffic more efficiently through these corridors.

The project intersections are shown in Figure 1. The arterials include:

- **Airport Boulevard:** Tower Place to S Produce Avenue (7 signals)
 - Airport Blvd & Tower Place
 - Airport Blvd & Sister Cities Blvd
 - Airport Blvd & Butler Avenue
 - Airport Blvd & Linden Avenue
 - Airport Blvd & Miller Avenue
 - Airport Blvd & Grand Avenue
 - Airport Blvd & Baden Avenue
- **Oyster Point Boulevard:** Gateway Boulevard to Marina Boulevard (7 signals)
 - Oyster Point Blvd & Gateway Blvd
 - Oyster Point Blvd & Veterans Blvd
 - Oyster Point Blvd & FED Ex
 - Oyster Point Blvd & Eccles West
 - Oyster Point Blvd & Eccles East
 - Oyster Point Blvd & Gull Drive
 - Oyster Point Blvd & Marina Blvd
- **Grand Avenue:** Dubuque Avenue to Haskins Way (8 signals)
 - Gateway Blvd & Grand Ave
 - Grand Ave & Dubuque Ave
 - Grand Ave & E Grand Ave
 - E Grand Ave & Harbor Way
 - E Grand Ave & Point Grand
 - E Grand Ave & Littlefield Ave
 - E Grand Ave & Haskins Way
 - E Grand Ave & Roebling Road
- **Forbes Boulevard:** Eccles Avenue to Gull Drive (2 signals)
 - Forbes Blvd & Gull Drive
 - Forbes Blvd & Eccles Ave
- **Gateway Boulevard:** Corporate Drive to 701 (4 signals)
 - Gateway Blvd & 701 Gateway Blvd
 - Gateway Blvd & 651 Gateway Blvd
 - Gateway Blvd & 601 Gateway Blvd
 - Gateway Blvd & Corporate Drive
- **South Airport Boulevard:** Mitchell Avenue to United (5 signals)
 - S Airport Blvd & S Produce Ave
 - S Airport Blvd & Mitchell Ave
 - S Airport Blvd & Utah Ave

- S Airport Blvd & Belle Air Road
- S Airport Blvd & United/Parking lot

The ATSPM system will allow the City to proactively address operational issues by adjusting traffic signals to respond to the needs of the traveling public. The City can monitor and adjust timing plans along intersecting arterials in the East of 101 area during activation of Caltrans incident management flush plans.

On March 2, 2020, staff began advertising a Request for Proposals (RFP) to provide and implement an ATSPM system as part of the East 101 Traffic Signal Improvements Project (tr1902). The RFP was advertised on the City's website and notifications were sent via email to all known vendors of ATSPM systems. The RFP required a system vendor capable of meeting the system requirements included in the Systems Engineering document and furnishing the required software and training. The RFP included language that provided for the basis of the project award to be the best overall value to the City. Due to the recent shelter-in-place order, the City has extended the deadline for the Automated Traffic Signal Performance Measures (ATSPM) System RFP. In response to the advertisement, four proposals from the firms listed below were received on May 1, 2020.

System Vendor	Office Location of Proposer
Cubic/Gridsmart	Knoxville, TN
Econolite Systems	Anaheim, CA
Iteris	Santa Ana, CA
Traffop Corp	Scottsdale, AZ

All of the proposals were evaluated and found to be responsive. Each of the four proposals offered most of the features required by the System Requirements document included in the RFP. A panel of five members was formed, consisting of four City staff and a Principal Transportation Engineer from MTC. The City invited the three top ranked consultants, Econolite, Traffop and Iteris, to vendor interviews held on July 15, 2020. The interview panel determined Traffop to be the most suitable vendor to procure the ATSPM System.

The RFP required a two-part cost proposal, initial project costs for Years 1 through 3, and project costs for Years 4 through 10. The initial project costs are paid for the MTC through the IDEA grant.

The initial project costs include project management; furnish and install ATSPM system; configuration, integration, and deployment; system testing and acceptance; training and training documentation; system documentation; and system license, warranty, and support for Years 1 through 3. The project costs for Years 4 through 10 include only the system license, warranty, and support.

FISCAL IMPACT

This project is included in the City of South San Francisco's Fiscal Year 2020-21 Capital Improvement Program (Project No. tr1902) and is funded by the MTA IDEA Grant and East of 101 Traffic Impact Fees. Traffop Corp was selected to provide an ATSPM system for the project with a total cost of \$253,100, and a proposed total contract amount of \$278,410, which includes a ten percent (10%) contingency to cover any unforeseen conditions or expenses.

Bid Item	Price	Funding Source
Initial Deployment and Years 1 - 3	\$144,585	MTC IDEA Grant
Years 4 - 10	\$108,515	Traffic Impact Fees
10% Contingency (Years 1 - 3 Costs)	\$14,458.50	MTC IDEA Grant
10% Contingency (Years 4-10 Costs)	\$10,851.50	Traffic Impact Fees

RELATIONSHIP TO STRATEGIC PLAN

Approval of this action will contribute to the City's Strategic Plan outcome of improved Quality of Life by deploying advanced technologies along arterials to enhance mobility, sustainability, and safety across all modes of transportation.

CONCLUSION

Staff recommends City Council adopt a resolution authorizing the City Manager to execute a professional services contract with Traffop Corp of Scottsdale, Arizona to procure an automated traffic signal performance measures (ATSPM) system for the East of 101 Traffic Signal Improvements Project (Project No. tr1902) in an amount not to exceed \$278,410.

Attachments:

1. Figure 1 Project Locations
2. Powerpoint Presentation