



## AGENDA MEMORANDUM

Action Item for the City Council Meeting of September 17, 2024

**DATE:** September 17, 2024

**TO:** Peter Zanoni, City Manager

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**Purchase of Iteris, Inc. Video Wall Installation and Integration,  
ClearGuide Roadways and ClearGuide Signals Traffic Analytic  
Software, Advance Radar Detection Equipment, and Support Services**

### **CAPTION:**

Motion authorizing execution of a three-year Professional Service Agreement with Iteris, Inc. of Santa Ana, California with an office in Austin, Texas, through the BuyBoard Cooperative, in an amount not to exceed \$1,156,743.60, for the purchase of ClearGuide Roadways Service and ClearGuide Signal Performance Measures software, a one-time expense for VantageRadius Plus advanced radar detection equipment, Video Wall, and Traffic Signal installation and Integration Assistance in support of the Public Works Department Traffic Management Center (TMC), with FY 2024 funding from the Street Fund.

### **SUMMARY:**

This is a motion to approve funding for the purchase of a video wall, traffic analytic software, equipment and support services in support of the City's Traffic Management Center (TMC).

### **BACKGROUND AND FINDINGS:**

The Traffic Management Center (TMC), which was approved by City Council in 2016, is managed by the Department of Public Works. It became operational in 2017 and serves as a centralized location to manage, oversee, and monitor communications to signalized intersections and school zone flashers. A TMC allows staff to remotely monitor traffic operations and respond to alerts for malfunctioning equipment in real-time.

The TMC relies on a video wall to display live surveillance of intersections. This video wall is an integral part of the TMC since it provides an opportunity for staff to view various information simultaneously when managing traffic issues or incidents. The monitors are now experiencing

issues with outages and poor resolution as a result of age. Replacement is recommended as the monitors are obsolete.

The Public Works Department seeks to improve TMC equipment and performance through these purchases. They will provide staff with the capability to analyze corridor performance, mobility, and safety. Support services will also be provided to support limited staff. All software, equipment and support are found on the Buyboard. Costs for both the software and equipment are intersection based. Descriptions of each are summarized below:

1. ClearGuide Roadways (257 intersections) – This software will assist staff by providing real-time data on operations through map tools, congestion alerts, hotspot analyses, performance measure reports, and trend maps. It will provide 24/7/365 monitoring of corridors.
2. ClearGuide Signal Performance Measure (SPM) (25 intersections) – This software provides 24/7/365 signalized intersection monitoring without the need for special cabinet hardware. It provides a bird’s eye view of mobility on corridors, monitors the health and safety of intersections, and identifies and prioritizes optimization of traffic signals. The SPM Software works in conjunction with the VantageRadius Plus advanced radar detection sensors.
3. VantageRadius Plus Sensor (100 sensors and equipment) – Radar sensors can detect vehicle presence (stop bar detection) within 80ft. These sensors are equipped with both stop bar and advanced detection up to 600-ft utilizing 4D/HD radar that tracks speed, angle, height and distance. This increases the ability to obtain accurate information enabling the intersection to operate at peak efficiency. Most of our intersections use radar detection that only provide stop bar detection (vehicle presence) with a range up to 80-ft. The ability to have advanced detection on successive intersections is what creates the ability to coordinate and improve traffic flow. The SPM software and equipment will be utilized at 25 intersections along two corridors identified on the 2022 Texas A&M Transportation Institute (TTI) most congested corridor list in the Corpus Christi District. Corridors and overall rank in the State are listed below:
  - a. Staples Street- SPID/SH358 to Yorktown (155<sup>th</sup>)
  - b. Saratoga Boulevard/Rodd Field – Greenwood to SPID (213<sup>th</sup>)
4. Installation and Integration Support Services - Support service to assist staff in utilizing the analytics to improve performance on roads and intersections.
5. Video Wall- Iteris, Inc. will replace eight (8) existing LCD monitors, cables and associated rack mount equipment. They will design the new wall to be equipped with eight (8) 55-inch monitors and supporting cabling and software and provide system and training.

### **PROCUREMENT DETAIL:**

This procurement is through the BuyBoard Cooperative. Contracts awarded through the BuyBoard Cooperative have been competitively procured, in compliance with local and state procurement requirements.

### **ALTERNATIVES:**

An alternative is to not approve the purchase of software, equipment, and support services. City staff would continue to utilize manual data collection to resolve operational, maintenance,

and safety concerns along corridors. The existing video wall and radar equipment would continue to fail until they become unusable.

**FISCAL IMPACT:**

Expenditures will total \$1,156,743.60 for FY24 to provide for two software purchases totaling \$282,300.00, one-time installation and integration assistance totaling \$120,000.00, a one-time expense of \$754,443.60 for two equipment purchases with funding available in the Street Fund.

**Funding Detail:**

Fund:	1041	Streets Fund
Department:	33	Streets
Organization/Activity:	12300	Traffic Engineering
Project # (CIP Only):	N/A	
Account:	530000	Professional Services

**RECOMMENDATION:**

Staff recommends approval to execute this motion authorizing a three-year professional service agreement with Iteris, Inc. of Santa Ana, California for the Public Works Department as presented.

**LIST OF SUPPORTING DOCUMENTS:**

Price Sheet  
Cooperative Service Agreement  
Presentation