



DEPARTMENT OF TRANSPORTATION

Fresno Area Express ♦ Fleet ♦ Handy Ride

DATE: December 9, 2021

TO: FILE, CAD/AVL Change Order (Radio Assessment)

FROM: Joseph Portale, Capital Development Specialist – Fresno Area Express (FAX)

SUBJECT: COST ANALYSIS, Computer Aided Dispatch and Automated Vehicle Location (CAD/AVL) Change Order

Summary

FAX is working with Intueor to make system-wide technological enhancements to improve its operational efficiency, security, and customer satisfaction along with its quality of transit service and customer information. FAX has worked to upgrade the existing radio-based CAD/AVL system with a system that will improve the efficiency transfer rate for the CAD/AVL system providing real-time route and vehicle information via an interface to passengers, dispatchers, and supervisory personnel. The original contract value approved by Council for this work is \$387,063.68. A scope change has been requested to incorporate a radio system assessment as part of the CAD/AVL project for in the amount of \$93,050.00, bringing the total contract value to \$480,113.68. Intueor's final proposal has been concluded to be fair and reasonable for this change order to provide consulting services to help us to update our end-of-life Radio and Dispatch network.

Labor Rates

Based on the previous bids FAX assumes it would be paying an estimated \$323.74 an hour for CAD/AVL consulting services. We received bids for consulting work on the original CAD/AVL scope shown in the first chart below. After considering inflation from the Producers Price Index for Management Consulting, it was determined that there has been just over 15% inflation between March of 2020 (when the original bids were received) and October of 2021. Based on the data from the two quotes and the 15% PPI inflation, we can expect to pay approximately \$323.74 per hour for our current CAD/AVL consulting. Because the estimated cost of the change order is lower than our calculated potentially cost, FAX deems Intueor's price to be fair and reasonable for this change order.

Product - Consulting

Product Information was gathered from previous quotations made for FAX and for CAD/AVL consulting within the past two (2) years. The results are as follows:

	BerryDunn Consulting (March 2020)	Intueor Consulting (March 2020)
Consulting cost (per hour)	\$302.61	\$258.04
Total quoted cost for CAD/AVL consulting contract	\$453,914.00	\$387,063.70
Hourly Rate with 15.49% increase based on Producers Price Index for Management Consulting Increase (between March 2020 to October 2021)	\$349.47	\$298.00

Discussion

In Determining if the current price is fair and reasonable, FAX's most recent quote from Intueor will be compared to past competitive quotes received within the past two years.

Organization	Prices (per hour)	Percentage Difference
Sales Quote	\$275.00	21.31%
BerryDunn Consulting	\$349.47 (as adjusted for inflation)	
Sales Quote	\$275.00	7.72%
Intueor Consulting	\$298.00 (as adjusted for inflation)	

Quote / BerryDunn: The price difference at first appears to be significant, but the pricing that BerryDunn quoted in 2020 included a project principle and project manager that had a higher rate than that of the sales quote.

Quote / Intueor: The price difference between FAX's most recent quote and the Intueor quote when adjusted for inflation is little over 7% lower than previously quoted. This is with the PPI for Management/Scientific/Technical Consulting (change of 15.49% between March 2020 and October 2021).

Preparer

Joseph Portale performed the above cost analysis evaluations, using previous competitive bids, received in March of 2020, for consulting on the CAD/AVL system enhancement, along with information from the consumer price index.

Signature: _____

Date: _____

11/10/21