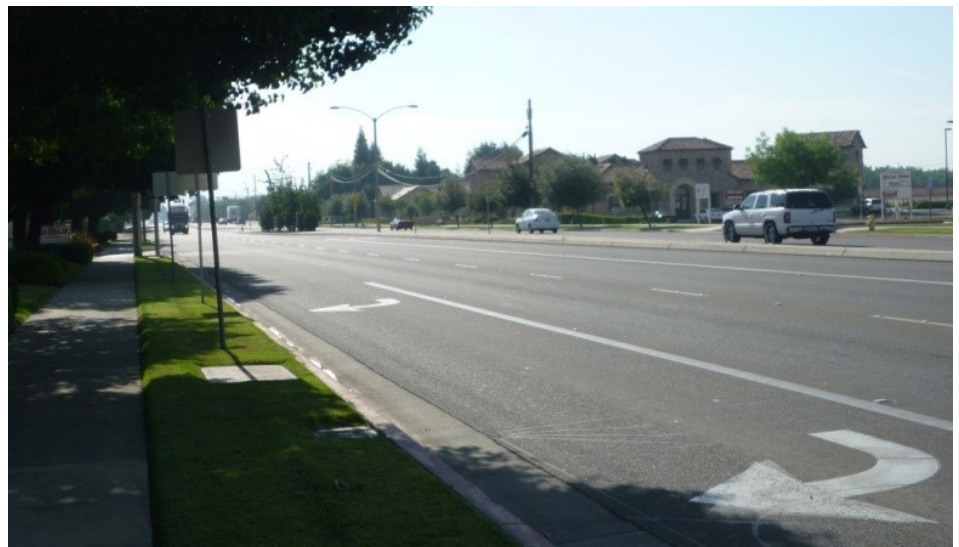


Visalia, CA

ITS / Signal Synchronization Project



PROJECT OWNER:

City of Visalia

PROJECT DATE(S):

2013 - 2017

TJKM CLIENT REFERENCE:

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TJKM FEE:

\$98K

PROJECT DESCRIPTION:

The overall objective of this project was to determine the best communication system for interconnecting traffic signals for three arterial street segments. TJKM determined the communication system level requirements desired by the City that could be implemented within the construction budget constraints and communication needs for the Akers Street, Caldwell Avenue, and Whitendale Avenue corridors.

TJKM prepared plans, specifications and construction cost estimates (PS&E) for interconnecting five traffic signals along Akers Street to the existing interconnect system, five traffic signals along Whitendale Avenue to the City's interconnect system, and a total of 11 traffic signals interconnecting along Caldwell Avenue. The Akers Street Corridor was interconnected using fiber optic cabling. The Whitendale corridor was interconnected using a wireless Ethernet communication system, and the Caldwell Avenue corridor was interconnected using a combination of fiber optic cabling and a wireless Ethernet communication system. As part of the design phase, TJKM assisted the City with preparing an E-76 permit for Caltrans Local Assistance Program.

TJKM also prepared traffic signal coordination plans for the three corridors as well as along Demaree Street, Noble Avenue, and Mineral King Avenue. The objective of this phase was to facilitate traffic progression along the study corridors by updating the traffic signal timing plans to achieve operational efficiency of the signals. Attaining this objective will reduce traffic congestion, reduce traffic delays, reduce the emission of harmful greenhouse gases, reduce automobile travel time along the study corridors, and improve traffic safety.



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