

The County of Yuba

Community Development and Services Agency



TO: Board of Supervisors

FROM: Community Development and Services Agency, Samuel Bunton

SUBJECT: Community Development and Services: Approve Public Interest Finding and award contract to TJKM Transportation Consultants for engineering and construction support services for the HSIP Cycle 11 Signal System Upgrade Project, and authorize the Chair to execute

DATE: June 11, 2024

NUMBER: 336/2024

RECOMMENDATION:

The Department of Public Works recommends the Board of Supervisors approve the Public Interest Finding and award the contract to TJKM Transportation Consultants for engineering and construction services support services for the HSIP Cycle 11 Signal System Upgrade Project, and authorize the Chair to execute.

BACKGROUND:

Yuba County completed a comprehensive Systemic Safety Analysis Report and Local Roadway Safety Plan (LRSP). The collision analysis conducted for the LRSP project was for a period from 2016 to 2020, and the data was obtained from the California Highway Patrol's Statewide Integrated Traffic Records System (SWITRS) and the UC Berkeley SafeTREC's Transportation Injury Mapping Service (TIMS). A total of 5,046 collisions were reported County-wide, with 56% occurring at intersections and 44% occurring on roadway segments. The most common types of collisions occurring at intersections were broadside and rear-end collisions. The most common primary factors observed for collisions were improper turning, unsafe speed, and other collisions. The most common traffic violation categories for Fatal and serious injury collisions were improper turning, DUI, and unsafe speed.

The analysis identified signal system upgrades as a means of addressing the high rates of rear-end collisions and unsafe speed violations at intersections. The County identified the following intersections on the high injury network:

1. River Oaks Blvd. / Plumas Lake Blvd.

2. Olivehurst Ave. / McGowan Pkwy
3. Lindhurst Ave. / Erle Rd.
4. Lindhurst Ave. / North Beale Rd.
5. North Beale Rd. / Feather River Blvd.
6. Linda Ave. / North Beale Rd.
7. Hammonton Smartsville Rd. / Simpson Ln.

Enhancing signal hardware will provide better visibility of intersection signals and aid in the drivers in advance perception of the upcoming intersection. This should reduce speeds at intersections and raise awareness, resulting in fewer rear-end collisions. Installation of pedestrian countdown signal heads and modifications of signal timing to implement leading pedestrian intervals will further enhance pedestrian safety and result in a reduction of collision between pedestrians and vehicles.

DISCUSSION:

The Department of Public Works advertised for proposals on May 8, 2024, and bids were opened on May 22, 2024. TJKM Transportation Consultants was selected as the consultant with a cost of \$109,890.33. The work, in general, will consist of enhancing the signal hardware (lenses, back-plates with retro-reflective borders, mounting, size and number), installing pedestrian countdown signal heads, implementing leading pedestrian intervals, traffic signal controller replacement, and modifications to signal timing. The design start date will be mid-June 2024.

Tasks required to do the work include project management, preliminary engineering studies, environmental services, the preparation of plans, specifications, and estimates, bidding assistance, and construction support.

COMMITTEE ACTION:

The Land Use & Public Works Committee was bypassed as this project is included in the Public Works Budget.

FISCAL IMPACT:

General Fund:	\$0
Non-General Fund:	\$109,890.33
Source of Funds:	\$109,890.33 Highway Safety Improvement Program (HSIP)

ATTACHMENTS:

TJKM Transportation Consultants Agreement
Public Interest Finding