



STAFF REPORT

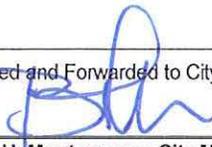
Date: Tuesday, September 13, 2016

To: Bryan H. Montgomery, City Manager

From: Kevin Rohani, P.E. Public Works Director/City Engineer

Subject: Agreement with TJKM Transportation Consultants for Engineering Design Services Associated with CIP Project Number 192 – FY 2016/17 Traffic Signal Modernization Project

Approved and Forwarded to City Council:


Bryan H. Montgomery, City Manager

Background and Analysis

The City's Capital Improvement Program for the 2016/2017 Fiscal Year includes a project to improve the traffic signal system on major streets in Oakley. Traffic operations and public safety have become one of the more important issues for the community. Staff from both Public Works and the Police Department are continually working to improve the traffic operations on City streets. This project will replace some of the older internal components of the City's traffic signal systems, which will allow better and more coordinated traffic signal operations.

The project proposes improvements at six intersections: Empire Avenue & West Cypress Road, Empire Avenue & Laurel Road, Main Street & Carol Lane, Main Street & East Cypress Road, Main Street & Laurel Road, and O'Hara Avenue & Carpenter Road. The improvements include installation of illuminated street name signs, vehicle video detection, upgrading signal timing, reviewing turn radii for truck movements, and redesign of lane geometry.

Staff will continue to work on other measures to improve the traffic operations in Oakley with projects such as signal synchronization, which was implanted earlier this year, and primarily funded by a Metropolitan Transportation Commission (MTC) grant.

TJKM Transportation Consultants is a premier engineering firm with over 40 years of experience in transportation and traffic engineering in the Bay Area. They have extensive experience working with various municipalities providing on-call traffic engineering services. They have worked successfully in the past for the City of Oakley on various projects.

Fiscal Impact

Approval of the resolution will authorize the City Manager to execute an agreement with TJKM Transportation Consultants, for a cost not to exceed \$38,700. The 2016/17 Fiscal Year Capital Improvement Program has allocated funding for this project from Traffic Impact Fee (TIF) funds.

Staff Recommendation

Staff recommends that the City Council adopt the resolution approving the agreement with TJKM Transportation Consultants for design services associated with CIP 192 – FY 2016/17 Traffic Signal Modernization Project and authorizing the City Manager to enter into the agreement.

Attachments

- 1) Resolution
- 2) TJKM Proposal

RESOLUTION NO.____-16

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF OAKLEY APPROVING AN AGREEMENT WITH TJKM TRANSPORTATION CONSULTANTS FOR ENGINEERING DESIGN SERVICES ASSOCIATED WITH THE FY 2016/17 TRAFFIC SIGNAL MODERNIZATION PROJECT NUMBER 192 AND AUTHORIZING THE CITY MANAGER TO EXECUTE THE AGREEMENT

WHEREAS, as part of the Fiscal Year 2016/17 Budget, the City of Oakley approved a 5-Year Capital improvement Program (CIP); and

WHEREAS, Project Number 192 is to design the improvements for the FY 2016/17 Traffic Signal Modernization Project; and

WHEREAS, TJKM Transportation Consultants is a premier engineering firm with over 40 years of experience in transportation and traffic engineering in the Bay Area and have extensive experience working with various municipalities providing on-call traffic engineering services and have worked successfully in the past for the City of Oakley on various projects; and

WHEREAS, TJKM Transportation Consultants have submitted a proposal to prepare design services for CIP Project Number 192 for an amount not to exceed \$38,700; and

NOW, THEREFORE, BE IT RESOLVED AND ORDERED, that the City Council of the City of Oakley hereby approves the proposal with TJKM Transportation Consultants for the preparation of engineering concept design drawings, and cost estimates for CIP Project Number 192 for an amount not to exceed \$38,700, in the form attached hereto as Exhibit A, and authorizes the City Manager to execute into the agreement.

PASSED AND ADOPTED by the City Council of the City of Oakley at a meeting held on the 13th of September, 2016 by the following vote:

AYES:
NOES:
ABSENT:
ABSTENTIONS:

APPROVED:

ATTEST:

Kevin Romick, Mayor

Libby Vreonis, City Clerk

Date

August 18, 2016

Kevin Rohani, P.E.
Public Works Director/City Engineer
3231 Main Street
Oakley, CA 94561

Subject: Scope of Work and Fee for Traffic Signal Modifications PS&E at six intersections in the City of Oakley (CIP # 192).

Dear Mr. Rohani:

TJKM Transportation Consultants is pleased to submit our Scope of Work and fee to prepare traffic signal modification plans, specifications, and estimates for improvements along Empire Avenue, Main Street, and O'Hara Avenue in the City of Oakley. The City has identified modifications at six intersections on those corridors which include video detection and internally illuminated sign installations, pole relocations, signal phasing upgrades, lane geometry changes, and verification of truck turning radii. TJKM will prepare a full PS&E package per City of Oakley requirements.

TJKM has broken down our effort into five main tasks:

1. Field Verification
2. Preparation of Plans
3. Preparation of Engineer's Estimate
4. Preparation of Technical Specifications
5. Construction Support Services

SCOPE OF SERVICES

TASK 1: FIELD VERIFICATION

TJKM will acquire the latest set of as-built plans from City of Oakley and use them for field verification. As part of this task TJKM will go on site and check existing infrastructure, items include; signal cabinet, conduits, pull boxes, traffic signal poles, and lane geometry to verify the feasibility of proposed improvements as listed in Task 2 below.

TASK 2: PREPARATION OF PLANS

TJKM will use the AutoCAD master base file provided by the City and prepare scaled design plans in AutoCAD for the following intersections:

1. Empire Avenue at W. Cypress Road
 - a. Improvements include:
 - i. Installing Internally Illuminated Street Name Sign

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DBE #40772 ♦ SBE #38780



2. Empire Avenue at Laurel Rd
 - a. Improvements include:
 - i. Redesign lane geometry per discussion with City Staff
 - ii. Install video detection
3. Main Street at Carol Lane
 - a. Improvements include:
 - i. Upgrade existing 5-phase signal to 8-phase signal.
4. Main Street at E. Cypress Road
 - a. Improvements include:
 - i. Install video detection
 - ii. Check turn radii for trucks at intersection
5. Main street at Laurel Road
 - a. Improvements include:
 - i. Install video detection
6. O'Hara Avenue at Carpenter Road
 - a. Improvements include:
 - i. Redesign lane geometry per discussion with City Staff
 - ii. Install video detection

The design plans will be prepared and submitted for 60%, 90% and 100% submittal levels. After each submittal, the City should provide one set of non-conflicting comments which will be incorporated in to the next level of submittal.

Deliverables

- Full Size PDF Plan Set Submittals at 60%, 90%, and 100%.

TASK 3: PREPARATION OF ENGINEER'S ESTIMATE

TJKM will prepare an Engineer's estimate of probable construction cost for each intersection and submit with the plan set. After each submittal, the City should provide one set of non-conflicting comments which will be incorporated in to the next level of submittal.

Deliverables

- Engineer's Estimate at 60%, 90%, and 100%.

TASK 4: PREPARATION OF TECHNICAL SPECIFICATIONS

TJKM will prepare technical specifications for all proposed improvements at the six intersection. The specifications will accompany the plan set and engineer's estimate at each submittal starting with 90%. The specifications will be prepared in MS Word format using the City of Oakley Standard Specification format. The technical specifications will be provided to the City to insert into their master specifications document for the construction package.



Deliverables

- MS Word file submittals at 90%, and 100%.

TASK 5: CONSTRUCTION SUPPORT SERVICES (OPTIONAL TASK)

TJKM will provide construction support services during construction. Services to be provided include:

- Attend the pre-construction meeting
- Prepare responses to contractor’s RFIs during the construction phase, as needed
- Review contractor submittals and assist the City Inspector with specific design issues during construction
- Attend one construction progress meeting to answer design questions (if any) and clarify design elements when requested by City staff
- Assist with the issuance and negotiation of change orders

BUDGET

TJKM can perform the above scope of services on a milestone basis for not to exceed \$38,700. See table below.

Table 1: Proposed Cost

<i>Tasks</i>	<i>Total</i>
Task 1: Field Verification	\$2,500
Task 2: Preparation of Plans	\$30,700
Task 3: Preparation of Engineer’s Estimate	\$2,500
Task 4: Preparation of Technical Specifications	\$2,000
Task 5: Construction Support	\$1,000
Subtotal	\$38,700

Please note, any additional work outside of this scope will require an amendment to the original scope of work, such as an additional signal improvements and will not be performed without your prior approval.

Please feel free to contact me at (408) 421-0768 or via e-mail at rjariwala@tjkm.com, if you have any questions regarding this proposed work scope and fee. We look forward to working with you.

Sincerely,

Rjariwala

Ruta Jariwala