



Bay Area Infrastructure Financing Authority
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Memorandum

TO: BAIFA

DATE: March 8, 2017

FR: Executive Director

W. I. 6844

RE: I-880 Express Lanes Construction

- i. Contract Amendment – On-Call Construction Management Services: Zoon Engineering, Inc. (\$4,980,000)
- ii. Cooperative Agreement – Oversight during Construction: Caltrans (\$900,000)
- iii. Cooperative Agreement(s) – Express Lanes Paving: Caltrans (\$3,000,000)

This memorandum seeks Authority approval for the following contract actions related to construction of the I-880 Express Lanes Project (the Project) in Alameda County: (i) amend a contract with Zoon Engineering, Inc. (Zoon) for additional funding related to construction management services; (ii) enter into a cooperative agreement with Caltrans for oversight during construction; and (iii) enter into one or more cooperative agreements with Caltrans to include express lanes paving in its Capital Preventative Maintenance (CAPM) contract.

Background

The Project will convert the existing I-880 high-occupancy vehicle lanes to express lanes in Alameda County from Hegenberger Road to Dixon Landing Road in the southbound direction and from Dixon Landing Road to Lewelling Boulevard in the northbound direction. The Project requires construction of new foundations for overhead signs and structures and lighting standards, installation of conduit and subsurface vaults, reconstruction of median barriers, restriping freeway lanes and paving to prevent pavement scarring. The project also includes installation of fiber optics and establishing connections to partner agency fiber optics and leased-line services for the backhaul communications network.

In addition to the Project, Caltrans has secured separate funding for projects to replace the median barrier and to rehabilitate the pavement in the same I-880 corridor. To minimize the overall construction duration and construction impacts to the public, BAIFA and Caltrans staffs have identified significant opportunities to optimize delivery of the separate projects. The optimization started in 2015 when Caltrans agreed to install BAIFA median foundations as part of its median barrier replacement project. The median barrier contractor began work in Spring 2016.

Later this year, BAIFA and Caltrans will advertise separate construction projects to complete the remaining Project civil elements and to repave portions of I-880. BAIFA and Caltrans have agreed to move some BAIFA required paving into the Caltrans CAPM repaving project to maximize efficiencies. BAIFA paving includes paving to minimize pavement scarring due to restriping and realignments. Upon substantial completion of the Express Lanes civil work, BAIFA will install toll equipment under the existing Toll Systems Integrator Contract with Transcore ICP. The I-880 Express Lanes are projected to open in 2019. The BAIFA Express Lanes Civil Contract has an engineer's estimate of \$40 million. Staff will return to the Authority later this year for approval to award this contract.

To deliver the Project as currently planned, BAIFA requires a consultant for construction management services and agreements with Caltrans for contract oversight and design and construction services.

i. Contract Amendment – On-Call Construction Management Services over I-880 Express Lanes Civil Contract: Zoon (\$4,980,000)

In February 2016, after a competitive procurement, BAIFA authorized a contract with Zoon to provide construction management services for the Project. Zoon has since provided 1) support staff to Caltrans for administration of the Caltrans median barrier contract; and 2) support for the BAIFA Express Lanes Contract prior to advertisement. Attachment A includes a summary of Zoon Engineering and its project team's small business and disadvantaged business enterprise status.

Staff recommends amending this contract to provide additional pre-construction and construction management services for the Project including, but not limited to, contract administration, construction engineering, materials testing, inspection, traffic management during construction, and schedule review for the BAIFA Express Lanes Construction Contract to advertise this spring. Zoon will act as the resident engineer for the civil construction and backhaul communications network projects and will also manage schedule coordination of the toll system integrator with the civil construction and backhaul communications network contractor(s). Staff is requesting a contract amendment not to exceed \$4,980,000 for the work, which represents approximately six direct full time staff over the estimated two years of daytime and nighttime construction.

ii. Cooperative Agreement – Oversight During Construction of I-880 Express Lanes Civil Contract and Toll System Integration: Caltrans (\$900,000)

Staff recommends entering into an agreement with Caltrans for oversight of BAIFA's construction contracts within the State's right-of-way. Caltrans estimates the effort to provide oversight services will not exceed \$900,000 through 2019. This includes part-time roadway and structure construction oversight engineers and design engineers to review of submittals and changes.

iii. Cooperative Agreement(s) – Design and Construction of I-880 Express Lanes Paving: Caltrans (\$3,000,000)

Staff recommends entering into one or more agreements with Caltrans to design and construct BAIFA related pavement rehabilitation and striping on Caltrans' Capital Preventative Maintenance (CAPM) contract. Caltrans estimates these efforts, cumulatively, will not exceed \$3,000,000 through 2019.

Recommendation

Staff recommends the Authority authorize the Executive Director or his designee to negotiate and enter into the following for the I-880 Express Lanes: (i) Contract amendment with Zoon to provided construction management services in an amount not to exceed \$4,980,000; (ii) Cooperative agreement with Caltrans for oversight during construction in an amount not to exceed \$900,000; and (iii) Cooperative agreement(s) with Caltrans for inclusion of express lane paving in its I-880 Capital Preventative Maintenance contract in a total amount not to exceed \$3,000,000.



Steve Heminger

SH:pl
Attachments

Attachment A – Small and Disadvantaged Business Participation

			DBE* Firm			SBE** Firm		
	Firm Name	Role on Project	Yes	If Yes, List #	No	Yes	If Yes, List #	No
subconsultant	Zoon Engineering, Inc.	Construction/Project Management			X	X	58549	
	WRECO	Biological Monitoring Services	X	30066		X	60800	
subconsultant	Park Engineering, Inc.	Construction Inspection	X	41711		X	1757722	
subconsultant	VSCE, Inc	Public Information	X	34787		X	39283	
subconsultant	S&C Engineers, Inc.	Construction Management Services				X	21993	
subconsultant	Alta Vista	Construction Staking			X			X
subconsultant	Consolidated Engineering Laboratories	Materials Testing			X			X

*Denotes certification by the California Unified Certification Program (CUCP).

**Denotes certification by the State of California.

REQUEST FOR AUTHORITY APPROVAL

Summary of Consultant Contract Amendment

Work Item No.:	6844
Vendor:	Zoon Engineering, Inc. Emeryville, CA
Work Project Title:	On-Call Construction Management Services: I-880 Express Lanes Project Construction Management and Administration
Purpose of Project:	To complete construction management and construction administration services for the I-880 Express Lanes Project in Alameda County.
Brief Scope of Work:	Consultant shall perform construction management and construction administration in accordance with BAIFA and Caltrans standard guidelines for the I-880 Express Lanes Project in Alameda County.
Project Cost Not to Exceed:	\$4,980,000 this amendment Total contract amount before this amendment: \$1,000,000 Total approved contract amount with this amendment: \$5,980,000
Funding Source:	BATA Express Lanes Capital Project
Fiscal Impact:	Funding is included in the Express Lane Capital Project Budget as adopted in the FY 2016-17 Toll Bridge Program Operating and Capital Budget (BATA Resolution No. 118, Revised)
Motion by Authority:	That the Executive Director or his designee is authorized to negotiate and enter into a contract amendment with Zoon Engineering, Inc. to perform construction management services for the I-880 Express Lanes Project in Alameda County, as described above and in the Executive Director's memorandum dated March 8, 2017, and the Chief Financial Officer is directed to set aside funds in the amount of \$4,980,000 for such contract amendment.
BAIFA:	<hr/> Jake Mackenzie, Chair
Approved:	Date: March 22, 2017

REQUEST FOR AUTHORITY APPROVAL

Summary of Proposed Cooperative Agreement

Work Item No.:	6840
Consultant:	California Department of Transportation (Caltrans)
Work Project Title:	Oversight of Construction Phase for I-880 Express Lanes in Alameda and Santa Clara Counties
Purpose of Project:	The purpose of the BAIFA Express Lane project is to develop Express Lanes that utilize excess capacity of the existing High Occupancy Vehicle lanes. The project will also provide non-carpool eligible drivers with a reliable travel time option.
Brief Scope of Work:	Caltrans will provide oversight including review and comment on contract change orders and field design changes required during construction of the proposed improvements. BAIFA staff and BAIFA construction management consultants will administer the construction contracts.
Cost Not to Exceed:	\$900,000
Funding Source:	BATA Express Lanes Capital Project Budget
Fiscal Impact:	Funding is included in the Express Lanes Capital Project Budget as adopted in the FY 2016-17 Toll Bridge Program Operating and Capital Budget (BATA Resolution No. 118, Revised)
Motion by Authority:	That the Executive Director or his designee is authorized to negotiate and enter into a cooperative agreement with Caltrans as described above and in the Executive Director's memorandum dated March 8, 2017, and the Chief Financial Officer is directed to set aside funds in the amount of \$900,000 for such agreement.
BAIFA:	<hr/> Jake Mackenzie, Chair
Approved:	Date: March 22, 2017

REQUEST FOR AUTHORITY APPROVAL

Summary of Proposed Cooperative Agreement(s)

Work Item No.:	6840
Agency:	California Department of Transportation (Caltrans)
Work Project Title:	I-880 Capital Preventative Maintenance (CAPM) Contract
Purpose of Project:	The Caltrans I-880 CAPM Contract will rehabilitate pavement along I-880 in Alameda County. The CAPM project is primarily a Caltrans funded and constructed project. BAIFA will be constructing an Express Lanes conversion project along the portions of the same I-880 corridor as the CAPM project. To minimize the overall construction duration and construction impacts to the public, BAIFA and Caltrans staffs have identified significant opportunities to optimize delivery of the separate projects, including incorporation of BAIFA required paving into the CAPM project.
Brief Scope of Work:	Caltrans will provide design and construction support to incorporate BAIFA paving into the Caltrans CAPM project. This effort will require one or more cooperative agreements for support and construction.
Cost Not to Exceed:	Total authorized for cooperative agreements(s) is not to exceed \$3,000,000, cumulatively, including support and construction
Funding Source:	BATA Express Lanes Capital Project Budget
Fiscal Impact:	Funding is included in the Express Lane Capital Project Budget as adopted in the FY 2016-17 Toll Bridge Program Operating and Capital Budget (BATA Resolution No. 118, Revised)
Motion by Authority:	That the Executive Director or his designee is authorized to negotiate and enter into one or more cooperative agreements with Caltrans as described above and in the Executive Director's memorandum dated March 8, 2017, and the Chief Financial Officer is directed to set aside funds in the amount of \$3,000,000 for such agreements(s).
BAIFA:	<hr/> Jake Mackenzie, Chair
Approved:	Date: March 22, 2017