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## *Memorandum*

TO: BAIFA

DATE: July 11, 2018

FR: Executive Director

W. I. 6844

RE: Contract Change Order - I-880 Express Lanes Civil Construction Contract: Bay Cities Paving and Grading (\$3,000,000)

This memorandum seeks Authority approval of a contract change order with Bay Cities Grading and Paving, Inc. (Bay Cities) in an amount not to exceed \$3,000,000 for additional construction services on the I-880 Express Lanes Project (the Project) in Alameda County.

### **Background**

The Project is currently underway to convert 51 miles of 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 civil roadway improvements include construction of new foundations for overhead signs, structures and lighting; installation of conduit, subsurface vaults and signs; 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 (Backhaul).

To maximize efficiencies and minimize the overall construction duration and impacts to the public, BAIFA and Caltrans have agreed Caltrans will install express lanes foundations as part of its median barrier replacement project (over 90 percent complete) and will include express lanes paving in its 880 repaving project (began construction Spring 2018).

On June 28, 2017, the Authority authorized a contract with Bay Cities Paving & Grading in an amount of \$43,934,898 and a contingency in the amount of \$10,551,490 to complete construction on the remaining express lanes civil elements. Bay Cities is about 40 percent complete with construction. Upon substantial completion of the Express Lanes civil work, BAIFA will install toll equipment under the existing Toll Systems Integrator Contract with Transcore, LP. The I-880 Express Lanes are projected to open in late 2019.

BAIFA and Caltrans staffs have identified another opportunity to maximize efficiencies and minimize contractor mobilization costs, construction duration and impacts to the public by using the express lanes civil contractor, Bay Cities, to install fiber lateral connections to connect Caltrans' closed circuit television (CCTV) cameras and changeable message signs at up to 31 locations to the Backhaul. Since 2016, MTC staff has conducted a performance-based device maintenance and repair pilot project with Caltrans along the I-880 corridor for traffic operation system (TOS)

devices, such as CCTV cameras, changeable message signs, vehicle detectors and ramp meters. However the existing, antiquated communication infrastructure for these freeway management devices hinders effective operations. These technology assets currently rely on leased telephone lines (both dial-up and wireless) to connect to the transportation management center. Leased telephone lines present a number of challenges, including limited bandwidth capacity, high operational and maintenance costs, and unreliable repair times (dependent on the service provider's availability). Installing fiber laterals to connect the cameras and changeable message signs to the Backhaul will: a) improve camera quality and images while reducing latency; b) enable additional video data and information sharing in preparation for the 880 Express Lane opening; and c) help eliminate the recurring cost for leased communications, currently estimated at \$574,000 per year.

The Bay Cities contract includes constructing laterals to express lanes equipment. This change order will increase the quantity of this work. If the new laterals were to be issued as a standalone project, costs would be expected to be at least 30 percent higher than they are under a change order. Caltrans staff is preparing the design plans and obtaining environmental clearance for this proposed work at no cost to MTC.

The proposed change order work is estimated at \$3,000,000. Funds for this change order are provided by the MTC Service Authority for Freeways and Expressways (SAFE) and have been transferred to the Express Lanes Capital Project Budget.

Attachment A includes a summary of Bay Cities' and its project team's small business and disadvantaged business enterprise status.

### **Recommendation**

Staff recommends the Authority authorize the Executive Director or his designee to enter into a contract change order with Bay Cities in amount not to exceed \$3,000,000 for additional construction services on the I-880 Express Lanes Project.



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Steve Heminger

SH:al  
Attachments

**Attachment A**  
Small and Disadvantaged Business Participation

Firm Name	Role on Project	DBE* Firm			SBE** Firm		
		Yes	If Yes, List #	No	Yes	If Yes, List #	No
Bay Cities Paving and Grading, Inc.	General Contractor			X			X
Chrisp Company	Subcontractor			X			X
Independent Structures	Subcontractor			X			X
FBD Vanguard	Subcontractor			X			X
MF Maher	Subcontractor			X			X
Farwest Safety Inc.	Subcontractor			X	X	6544	
Avar Construction	Subcontractor			X			X
Coral Construction	Subcontractor			X			X
Sturgeon Electric	Subcontractor			X			X
Bridgeway Civil Construction	Subcontractor			X			X

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

\*\*Denotes certification by the State of California.

## REQUEST FOR AUTHORITY APPROVAL

### Summary of Proposed Contract Change Order

Work Item No.: 6844

Contractor: Bay Cities Grading and Paving, Inc. (Bay Cities)

Work Project Title: I-880 Express Lanes Construction Contract

Purpose of Project: Construction of I-880 Express Lanes

Brief Scope of Work: Convert the existing I-880 high-occupancy vehicle lanes to express lanes between the Santa Clara County line and the Hegenberger Road/Lewelling Boulevard interchanges in Alameda Count. This change order is for installation of fiber lateral connections to the Backhaul to connect Caltrans cameras and changeable message signs at up to 31 locations.

Project Cost Not to Exceed: This change order: \$3,000,000  
Contract amount before this change order: \$43,934,898 plus a contingency of \$10,551,490  
Maximum contract amount after this change order: \$46,934,898 plus a contingency of \$10,551,490

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 2018-19 Toll Bridge Program Operating and Capital Budgets (BATA Resolution No. 124).

Motion by Authority: That the Executive Director or his designee is authorized to negotiate and enter into a contract change order with Bay Cities in an amount not to exceed \$3,000,000 as described above and in the Executive Director's memorandum dated July 11, 2018, and the Chief Financial Officer is directed to set aside funds in the amount of \$3,000,000 for such change order.

BAIFA:

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Jake Mackenzie, Chair

Approved: Date: July 28, 2018