




Memorandum

Date: 02.16.17

RE: Citizen Advisory Committee
February 22, 2017

To: Citizens Advisory Committee

From: Eric Cordoba – Deputy Director for Capital Projects 

Subject: **ACTION** – Adopt a Motion of Support to Increase the Amount of the Professional Services Contract with Parsons Brinckerhoff, Inc. by \$820,000, to a Total Amount Not-to-Exceed \$8,470,000, to Complete Construction Support Services for the I-80/Yerba Buena Island Ramps Improvement Project (Phase 1), and Authorize the Executive Director to Modify Contract Payment Terms and Non-Material Contract Terms and Conditions

Summary

The Transportation Authority is working jointly with the Treasure Island Development Authority (TIDA) on the development of the I-80/Yerba Buena Island (YBI) Ramps Improvement Project. In July 2013, through Resolution 14-02, the Transportation Authority awarded a contract to Parsons Brinckerhoff, Inc. (PB) for construction support services including construction inspection and testing, and in October 2015, through Resolution 16-16, approved a contract amendment bringing the total contract not to exceed amount to \$7,650,000. The project is currently in the construction phase, approximately 97% complete and progressing well. In October 2016, the project reached a significant milestone with the opening of the I-80/YBI Ramps (Phase 1) to traffic. Now that Phase 1 is substantially complete and additional funding has been secured for the Southgate Road Realignment Improvements (Phase 2), it is an appropriate time to assess the remaining effort for PB to provide construction support services to close out Phase 1 of the project. This consultant contract amendment will be fully reimbursed by a combination of Federal Highway Bridge Program, State Prop 1B funds, and Bay Area Toll Authority funds and will be drawn down from the approved construction phase budget for the project.

BACKGROUND

The Transportation Authority is working jointly with the Treasure Island Development Authority (TIDA) on the development of the I-80/Yerba Buena Island (YBI) Interchange Improvement Project. TIDA requested the Transportation Authority, in its capacity as the Congestion Management Agency, to lead the effort to prepare and obtain approval for all required technical documentation for the project because of its expertise in funding and interacting with the California Department of Transportation (Caltrans) on design aspects of the project. The scope of the project includes two major components: 1) the I-80/YBI Ramps Improvement Project (YBI Ramps Project); and 2) the seismic retrofit of the existing YBI Bridge Structures on the west side of the island, which is a critical component of island traffic circulation leading to and from the SFOBB. The YBI Ramps Project – Phase 1 (original project) and YBI Ramps Project – Phase 2: Southgate Road Realignment Improvements (new phase of critical improvements) are discussed below.

YBI Ramps Project – Phase 1

The YBI Ramps Project – Phase 1 consists of replacing the existing westbound on-ramp and the westbound off-ramp located on the east side of YBI with a new westbound on-ramp and a new westbound off-ramp that would improve the functional roles of the current ramps. Since 2008, the project team has worked closely with Caltrans on all aspects of the project development process. The Final Environmental Impact Report/Environmental Impact Statement was approved in December 2011 with Caltrans as the National Environmental Policy Act lead agency under delegation from the Federal Highway Administration and the Transportation Authority as the California Environmental Quality Act lead agency. The Transportation Authority also completed the Plans, Specifications and Estimates and right of way certification efforts for the project in March 2013. On December 17, 2013, through Resolution 14-37, the Transportation Authority awarded a construction contract to the lowest responsible and responsive bidder, Golden State Bridge, Inc., in the amount of \$49,305,345 for the project, and authorized a construction allotment of \$63,874,686.

YBI Ramps Project – Phase 2: Southgate Road Realignment Improvements

Based on discussions with TIDA, Caltrans, and the Bay Area Toll Authority (BATA), the Transportation Authority will take the lead on the implementation of critical Phase 2 improvements. The Phase 2 project as proposed will increase the length of the on-ramp and off-ramp on a new alignment to allow the YBI Ramps Project to function as designed. Southgate Road as realigned would effectively function as an extension of the on- and off-ramps for the project, and would separate traffic heading to westbound and eastbound I-80, thereby eliminating queue spillback onto I-80 and congestion at the Southgate Road/Hillcrest Road intersection. The extended ramps would provide direct access from Hillcrest Road to the westbound on-ramp, and would ensure all truck turning movements are accommodated. In addition, the I-80 eastbound off-ramp would be reconstructed.

DISCUSSION

The purpose of this memorandum is to seek a motion of support to increase the amount of the professional services contract with Parsons Brinckerhoff, Inc. (PB), to complete construction support services for I-80/YBI Ramps Phase 1 improvements.

In July 2013, through Resolution 14-02, the Transportation Authority awarded a contract to PB for construction support services including construction inspection and testing, and in October 2015, through Resolution 16-16, approved a contract amendment bringing the total contract not to exceed amount to \$7,650,000. The Phase 1 improvements are approximately 97% complete and progressing well. In October 2016, the project reached a significant milestone with the opening of the I-80/YBI Ramps to traffic. Now that Phase 1 is open and funding has been secured for Phase 2, it is an appropriate time to assess the remaining effort for PB to close out Phase 1 construction support services. Construction completion and project close out of Phase 1 is anticipated by December 31, 2017. This consultant contract amendment will be fully reimbursed by a combination of Federal Highway Bridge Program, State Prop 1B funds, and BATA funds and will be drawn down from the approved construction phase budget for the project. Any costs not reimbursed by federal, state or regional funds will be reimbursed by TIDA.

The construction of the Phase 1 project is occurring in close proximity to the Caltrans construction of the SFOBB East Span Seismic Safety Project and the tightly constrained working areas on YBI result in multiple on-going changes and modifications to design and construction methods. Overall project complexity and site challenges have resulted in additional design services during construction and construction management, inspection, testing and support efforts beyond what was anticipated in the

original scope. In addition, there are three significant items that have been added to the scope the project which are 1) landscaping; 2) Vista Point improvements; and associated coordination with the opening of the bicycle and pedestrian path on the east span of the SFOBB; and 3) Southgate Road Realignment Improvements.

As mentioned above, the Southgate Road Realignment Improvements are necessary to ensure the new I-80 westbound ramps function as designed. The improvements need to be completed in a timely manner not only to complement the I-80 westbound ramps, but to support the overall roadway circulation on YBI. In addition, the I-80 eastbound off-ramp needs to be completed prior to construction of the seismic retrofit of the existing YBI Bridge Structures on the west side of the island. In order to expedite the construction of the improvements and take advantage of the upcoming construction season, staff plans to deliver a limited portion of Phase 2 improvements this summer through construction change orders to the existing construction contract with Golden State Bridge.

Funding for Phase 2: Southgate Road Realignment Improvements

Staff has been working with Caltrans, BATA and the California Transportation Commission to secure funding for these critical Phase 2 improvements. The total estimated cost for the project is \$38.4 million. The improvements have been deemed eligible for Federal Highway Bridge Program (HBP) Local Bridge Seismic Retrofit and Prop 1B Local Bridge Seismic Retrofit funds as a component of the I-80/YBI Westbound Ramps project under “Special Case Roadway” criteria. The Transportation Authority recently received a funding agreement from Caltrans Local Assistance for \$29.6 million in HPB funding, combined with \$2.5 million of Prop 1B funds for a total of \$32.1 million. BATA has identified two other funding sources, Bridge Seismic Retrofit and Bridge Rehabilitation, for the remaining \$6.3 million. A summary of the funding is as follows:

HBP Funding	\$ 29.6 million
Prop 1B Local Match	\$ 2.5 million
<u>BATA Funding</u>	<u>\$ 6.3 million</u>
Total Funding	\$ 38.4 million

Execution of this contract amendment is contingent on the allocation of additional federal and state funds as discussed above for the Southgate Road Realignment Improvements, anticipated to be allocated by Caltrans in April 2017.

Since a portion of this contract is funded with federal financial assistance from the Federal Highway Administration, administered by Caltrans, the Transportation Authority has adhered to federal regulations pertaining to disadvantaged business enterprises (DBE). To date, PB has maintained approximately 15% DBE participation by contracting with three sub-consultants: African-American-owned and San Francisco-based firm Transamerican Engineers & Associates; Hispanic-owned firm Garcia and Associates; and Asian-owned firm Applied Materials Engineering (AME). In August 2015, Garcia and Associates was no longer considered a DBE firm based on Caltrans’ DBE requirements. In order to meet the DBE contract goal, the Transportation Authority approved the addition of AME to the consultant contract.

ALTERNATIVES

1. Adopt a motion of support to increase the amount of the professional services contract with PB by \$820,000, to a total amount not-to-exceed \$8,470,000, to provide construction support services to complete the I-80/Yerba Buena Island Ramps Improvement Project (Phase 1), and authorize the

Executive Director to modify contract payment terms and non-material contract terms and conditions, as requested.

2. Adopt a motion of support to increase the amount of the professional services contract with PB by \$820,000, to a total amount not-to-exceed \$8,470,000, to provide construction support services to complete the I-80/Yerba Buena Island Ramps Improvement Project (Phase 1), and authorize the Executive Director to modify contract payment terms and non-material contract terms and conditions, with modifications.
3. Defer action, pending additional information or clarification from staff.

FINANCIAL IMPACTS

This consultant contract amendment will be fully reimbursed by a combination of Federal Highway Bridge Program (HBP), State Prop 1B Seismic Retrofit, and BATA funds. Execution of this contract amendment is contingent on the allocation of additional federal and state funds for the Southgate Road Realignment Improvements, anticipated to be allocated by Caltrans in April 2017. Any costs not reimbursed by federal, state or regional funds will be reimbursed by TIDA. The proposed contract amendment will be included in the Transportation Authority's mid-year budget amendment.

RECOMMENDATION

Adopt a motion of support to increase the amount of the professional services contract with PB by \$820,000, to a total amount not-to-exceed \$8,470,000, to provide construction support services to complete the I-80/Yerba Buena Island Ramps Improvement Project (Phase 1), and authorize the Executive Director to modify contract payment terms and non-material contract terms and conditions.

Attachment:

1. Scope of Services

Attachment 1

Scope of Services

Contractor shall provide the necessary full construction management services for the I-80/YBI Ramps Project in San Francisco, California. The construction management contract for the YBI Ramps Project will consist of a three-phase effort with Phase 1 consisting of pre-construction services; Phase 2 consisting of construction phase management services, and Phase 3 consisting of post construction phase services.

The construction management (CM) services required will include:

TASK 1 – PRE-CONSTRUCTION SERVICES (Completed)

- Perform constructability / biddability review of the construction contract documents (construction plans, special provisions, bid proposal and relevant information) for the project and submit a constructability report on discrepancies, inconsistencies, omissions, ambiguities, proposed changes and recommendations.
- Prepare a detailed Critical Path Method (CPM) construction schedule including pre-construction and construction activities.
- Management of the construction contract bidding phase; and management of the pre-bid conference and bid opening procedures including review of bids, bid bonds, insurance certificates and related contractor bid proposal submittals; and assist the Transportation Authority in selecting the recommended lowest qualified bidder.
- Process construction contract for execution by the contractor.
- Arrange for, coordinate and conduct a pre-construction conference, including preparation of meeting minutes.
- Complete review, comment and approval of the Construction Contractor's baseline schedule of work.
- Review and comment on Transportation Authority's construction contract administration procedures and policies.

TASK 2 – CONSTRUCTION PHASE SERVICES (Ongoing)

- Perform all necessary construction administration functions as required by the Transportation Authority's Construction Contract Administration Procedures, Caltrans Standard Specifications, the project Special Provisions, and Caltrans Construction and Local Programs Manual including:
 - Perform all required field inspection activities, monitor contractor's performance and enforce all requirements of applicable codes, specifications, and contract drawings.
 - Provide inspectors for day-to-day on the job observation/inspection of work. The inspectors shall make reasonable efforts to guard against defects and deficiencies in the work of the Construction Contractor and to ensure that provisions of the contract documents are being met.
 - Prepare daily inspection reports documenting observed construction activities.
 - Hold weekly progress meetings, weekly or as deemed necessary, between contractors, the Transportation Authority, Caltrans oversight, U.S. Coast Guard, TIDA, the City and other interested parties. Prepare and distribute minutes of all meetings.
 - Take photographs and videotape recordings of pre-construction field conditions, during construction progress, and post construction conditions.

- Prepare and recommend contractor progress payments including measurements of bid items. Negotiate differences over the amount with the contractor and process payments through the Transportation Authority Project Manager.
- Monitor project budget, purchases and payment.
- Prepare monthly progress reports documenting the progress of construction describing key issues cost status and schedule status.
- Prepare quarterly project status newsletters and issue press releases for project milestones. Provide one groundbreaking ceremony and one ribbon cutting ceremony. (Completed)
- Establish and process project control documents including:
 - Daily inspection diaries
 - Weekly progress reports
 - Monthly construction payments
 - Requests for Information (RFI)
 - Material certifications
 - Material Submittals
 - Weekly Statement of Working Days
 - Construction Change Orders
 - State Compliance Monitoring Unit to review contractor certified payrolls
- Review of construction schedule updates:
 - Review construction contractor's monthly updates incorporating actual progress, weather delays and change order impacts. Compare work progress with planned schedule and notify construction contractor of project slippage. Review Construction Contractor's plan to mitigate schedule delay. Analyze the schedule to determine the impact of weather and change orders. (Completed)
- Evaluate, negotiate, recommend, and prepare change orders. Perform quantity and cost analysis as required for negotiation of change orders.
- Analyze additional compensation claims submitted by the Construction Contractor and prepare responses. Perform claims administration including coordinating and monitoring claims responses, logging claims and tracking claims status.
- Process all Construction Contractor submittals and monitor design consultant and Caltrans review activities.
- Review contractor's falsework and shoring submittals. (Completed)
- Review, comment and facilitate responses to RFI's. Prepare responses to RFI on construction issues. Transmit design related RFI's to designer. Conduct meetings with Construction Contractor and other parties as necessary to discuss and resolve RFI's.
- Act as construction project coordinator and the point of contact for all communications and interaction with the Construction Contractor, Caltrans, US Coast Guard, TIDA, the City, US Navy, project designer and all affected parties.
- Schedule, manage and perform construction staking in accordance with the methods, procedures and requirements of Caltrans Surveys Manual and Caltrans Staking Information

Booklet.

- Schedule, manage, perform and document all field and laboratory testing services. Ensure the Construction Contractor furnishes Certificates of Compliance or source release tags with the applicable delivered materials at the project site. Materials testing shall conform to the requirements and frequencies as defined in the Transportation Authority's Construction Contract Administration Procedures, Caltrans Construction Manual and the Caltrans Materials Testing Manuals.
- Prepare / submit a Source Inspection Quality Management Plan (SIQMP) to Caltrans and perform source inspection of commercial materials per the approved SIQMP. (Completed)
- Coordinate and meet construction oversight requirements of Caltrans, US Coast Guard, TIDA, the City and the US Navy for work being performed within the respective jurisdictions. Construction Manager shall be responsible for coordinating with Caltrans, US Coast Guard, TIDA and the City regarding traffic control measures, press releases, responses to public inquiries, and complaints regarding the project.
- Monitor contractor's safety and health program for compliance with applicable regulations for the protection of the public and project personnel. Report any noted deficiencies to the contractor.
- Facilitate all necessary utility coordination with respective utility companies.
- Provide coordination and review of Construction Contractor's detours and staging plans with Caltrans, and San Francisco Bay Bridge construction management staff.
- Maintain construction documents per Federal and State requirements. Enforce Labor Compliance requirements.
- Quality Assurance/Quality Control (QA/QC) – Establish and implement a QA/QC procedure for construction management activities undertaken by in-house staff and by subconsultants. The QA/QC procedure set forth for the project shall be consistent with Caltrans' most recent version of the "Guidelines for Quality Control/Quality Assurance for Project Delivery". Enforce Quality Assurance requirements.
- Oversee environmental mitigation monitoring. Review contractor environmental deliverables and track compliance with project permits. (Completed)
 - Review construction documents and project permits to familiarize staff with anticipated issues and required surveys and monitoring schedules. (Completed)
 - Provide written and photo and/or video documentation of pre-construction field conditions for phases of construction with regards to environmental resource protection. A total of 4 site visits are anticipated, with 2 visits per construction year. (Completed)
 - Conduct nesting bird surveys for all vegetation removal activities, and for the moving of the historical buildings. If active nests are encountered coordinate with and state and federal agencies as needed to ensure compliance with the federal Migratory Bird Treaty Act and project permits. A total of 8 site visits are anticipated, with 4 visits per construction year. (Completed)
- Monitor and enforce Construction Contractor SWPPP compliance.

- Provide additional CM services per Amendment A: (ADDITIONAL SERVICES)
 - Coordinate building permit and resolve design/City issues related to the relocation of Quarters 10 and Building 267 to Clipper Cove. (Completed)
 - Provide time lapse photography and web-based photography management system. (Completed)
 - Provide 3.5 months additional CM services, mitigative efforts, and change orders associated with species protection/compliance with the Federal Migratory Bird Treaty Act. Mitigate project delays caused by nesting birds.(Completed)
 - Provide expedited submittal reviews required to mitigate project delays caused by nesting birds. (Completed)
 - Provide additional source inspection for Glass Fiber Reinforced Concrete Architectural Cladding
 - Provide coordination, change order, source inspection necessitated by Caltrans – directed change from modular bridge expansion joints to specialized seismic bridge expansion joints. (Completed)
 - Provide additional utility coordination to identify existing utilities and to relocate these utilities. Provide detailed coordination with San Francisco Public Utilities Commission Water and Power. (Completed)
 - Provide coordination and CM services related to construction staging changes requested by United States Coast Guard and Caltrans.
- Provide additional CM services per Amendment B: (ADDITIONAL SERVICES)
 - Provide 12 months additional CM services primarily focused on Glass Filter Reinforced Concrete Architectural Cladding, Irrigation and Landscaping, Vista Point improvements, and Southgate Road advanced improvements.

TASK 3 – POST-CONSTRUCTION SERVICES

- Perform Post Construction Phase activities including:
 - Prepare initial punch list and final punch list items.
 - Finalize all bid item, claims, and change orders. Provide contract change order documentation to project designer. Coordinate preparation of record drawings (as-built drawings) by project designer.
 - Provide final inspection services and project closeout activities, including preparation of a final construction project report per Federal and State requirements.
 - Turn all required construction documents over to Transportation Authority and Caltrans for archiving.

GENERAL PROJECT ADMINISTRATION

The Construction Manager will also perform the following general project administrative duties:

- a) Prepare a monthly summary of total construction management service charges made to each task. This summary shall present the contract budget for each task, any re-allocated budget amounts, the prior billing amount, the current billing, total billed to date, and a total percent billed to date. Narratives will contain a brief analysis of budget-to-actual expenditure variances, highlighting any items of potential concern for Transportation Authority consideration before an item becomes a funding issue.

- b) Provide a summary table in the format determined by the Transportation Authority indicating the amount of DBE firm participation each month based upon current billing and total billed to date.
- c) Provide a monthly invoice in the standard format determined by the Transportation Authority that will present charges by task, by staff members at agreed-upon hourly rates, with summary expense charges and subconsultant charges. Detailed support documentation for all Construction Manager direct expenses and subconsultant charges will be attached.

The Construction Manager shall demonstrate the availability of qualified personnel to perform construction engineering and construction contract administration.

The Construction Manager shall maintain a suitable construction field office in the project area for the duration of the project. Under a separate contract with the Transportation Authority, the Construction Contractor will be required to provide a construction trailer for the construction management team's use which shall include desks, layout table, phone, computers, fax machine, reproduction machine, file cabinets and for use for weekly construction meetings. The Construction Manager shall provide all necessary safety equipment required for their personnel to perform the work efficiently and safely. The Construction Manager personnel shall be provided with radio or cellular-equipped vehicles, digital camera, and personal protective equipment suitable for the location and nature of work involved.

The Construction Manager shall provide for the consultant field personnel a fully operable, maintained and fueled pick-up truck which is suitable for the location and nature of work to be performed (automobiles and vans without side windows are not suitable). Each vehicle shall be equipped with an amber flashing warning light visible from the rear and having a driver control switch.

The Construction Manager field personnel shall perform services in accordance with Caltrans and FHWA criteria and guidelines and subject to the following general requirements:

All reports, calculations, measurements, test data and other documentation shall be prepared on forms specified and/or consistent with Caltrans standards.

All construction management services and construction work must comply with the requirements of the Transportation Authority, Caltrans, U.S. Coast Guard and TIDA. The Construction Manager will report directly to Eric Cordoba, the Transportation Authority's Project Manager.

The Construction Manager shall demonstrate competency in all fields of expertise required by this RFP. The Transportation Authority is undertaking this effort in its capacity as CMA for San Francisco and in cooperation with TIDA, the City's Mayor's Office, and Caltrans District 04.