



RESOLUTION AWARDING A FOUR-YEAR PROFESSIONAL SERVICES CONTRACT TO WSP USA, INC. IN AN AMOUNT NOT TO EXCEED \$5,500,000 FOR CONSTRUCTION MANAGEMENT SERVICES FOR THE YERBA BUENA ISLAND WESTSIDE BRIDGES PROJECT, AND AWARDING A TWO-YEAR PROFESSIONAL SERVICES CONTRACT TO S&C ENGINEERS, INC. IN AN AMOUNT NOT TO EXCEED \$3,000,000 FOR CONSTRUCTION MANAGEMENT SERVICES FOR THE YERBA BUENA ISLAND SOUTHGATE ROAD REALIGNMENT IMPROVEMENTS PROJECT, AND AUTHORIZING THE EXECUTIVE DIRECTOR TO NEGOTIATE CONTRACT PAYMENT TERMS AND NON-MATERIAL CONTRACT TERMS AND CONDITIONS

WHEREAS, The Transportation Authority has been working jointly with the Treasure Island Development Authority (TIDA) and the Office of Economic and Workforce Development on the development of the I-80/Yerba Buena Island (YBI) Interchange Improvement Project; and

WHEREAS, The Transportation Authority is in the process of completing the YBI Ramps Improvement Project – Phase 1, which included constructing new westbound on and off ramps to the new Eastern Span of the San Francisco-Oakland Bay Bridge, and is now proceeding with implementation of two additional construction projects including the YBI Westside Bridges and YBI Southgate Road Realignment Improvements Projects; and

WHEREAS, The YBI Westside Bridges encompasses eight existing bridge structures on the west side of YBI; and

WHEREAS, The project purpose is to bring the bridge structures up to current seismic safety standards, and to accomplish this, five structures will be seismically retrofitted and three structures will be demolished and replaced with realigned roadway, an overcrossing structure, and new retaining walls; and



WHEREAS, The YBI Southgate Road Realignment Improvements are Phase 2 of the YBI Ramps project and are being fast-tracked since they are required to be completed before the YBI Westside Bridges Project can be constructed; and

WHEREAS, The YBI Southgate Road Realignment Improvements will increase the length of the on-ramp and off-ramp on a new alignment to allow the YBI Westbound Ramps Project to function as designed; and

WHEREAS, On May 12, 2017, the Transportation Authority issued a Request for Proposals (RFP) for construction management services for these projects; and

WHEREAS, The Transportation Authority received three proposals in response to the RFP by the due date of June 12, 2017; and

WHEREAS, A multi-agency technical review panel comprised of staff from the Transportation Authority, TIDA and the San Francisco Municipal Transportation Agency interviewed all three firms on January 22, 2017; and

WHEREAS, Based on the results of this competitive selection process, the panel recommended award of professional services contracts to WSP USA Inc. (WSP) to provide construction management services for the YBI Westside Bridges Project and S&C Engineers, Inc. (S&C Engineers) to provide construction management services for the YBI Southgate Road Realignment Improvement Project; and

WHEREAS, The contract for the YBI Westside Bridges project will be 100% reimbursed through a combination of Federal Highway Bridge Program (HBP), State Prop 1B and TIDA funds, and the contract for the Southgate Road Realignment Improvements project will be 100% reimbursed through a combination of Federal HBP, State Prop 1B, and Bay Area Toll Authority funds; and



WHEREAS, The first year's activities for both contracts are included in the adopted Fiscal Year 2017/18 budget and sufficient funds will be included in future year budgets to cover the remaining cost of the contracts; and

WHEREAS, At its June 28, 2017 meeting, the Citizens Advisory Committee considered and unanimously adopted a motion of support for the staff recommendation; now, therefore, be it

RESOLVED, That the Transportation Authority hereby awards a four-year professional services contract to WSP in an amount not to exceed \$5,500,000 for construction management services for the YBI Westside Bridges Project, and a two-year professional services contract with S&C Engineers in an amount not to exceed \$3,000,000 for construction management services for the YBI Southgate Road Realignment Improvements Project; and be it further

RESOLVED, That the Executive Director is hereby authorized to negotiate contract payment terms and non-material contract terms and conditions; and be it further

RESOLVED, That for the purposes of this resolution, "non-material" shall mean contract terms and conditions other than provisions related to the overall contract amount, terms of payment, and general scope of services; and be it further

RESOLVED, That notwithstanding the foregoing and any rule or policy of the Transportation Authority to the contrary, the Executive Director is expressly authorized to execute agreements and amendments to agreements that do not cause the total agreement value, as approved herein, to be exceeded and that do not expand the general scope of services.

Attachments (2):

1. Scope of Services for the YBI Westside Bridges Project
2. Scope of Services for the YBI Southgate Road Realignment Improvements

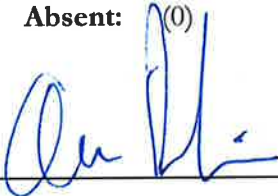


The foregoing Resolution was approved and adopted by the San Francisco County Transportation Authority at a regularly scheduled meeting thereof, this 25th day of July, 2017, by the following votes:

Ayes: Commissioners Breed, Cohen, Farrell, Fewer, Kim, Peskin, Ronen, Safai, Sheehy, Tang and Yee (11)

Nays: (0)

Absent: (0)

 7/26/17
Aaron Peskin Date
Chair

ATTEST:  8/1/17
Tilly Chang Date
Executive Director

Attachment 1

Construction Management Services for the Yerba Buena Island Westside Bridges Project Scope of Services

The Transportation Authority will be using the Construction Manager/General Contractor (CM/GC) project delivery method for the YBI Westside Bridges project. The construction management contract for the Yerba Buena Island Westside Bridges 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:

Phase 1 - Pre-Construction Services with CM/GC Project Delivery Method

- Resident Engineer or a small team from the CM services team will be involved in the pre-construction phase, along with other participants including Design Consultant, CM/GC and Independent Cost Estimator (ICE), Owner, etc.
- Provide ICE with the following experience construction cost estimator knowledge, skills, and experience:
 - For the Lead Structure and Civil Cost Estimator roles (may be performed by the same person), preference will be given to individuals who have:
 - Proficiency in production-based, heavy civil estimation software platforms
 - Experience performing contractor-style, production-based cost estimates for major bridge, tieback walls and soil nail walls of projects of similar scope, size and complexity to the YBI Westside Bridges project, including experience with:
 - Tall bridge piers,
 - CIDH and CISS foundations,
 - Bridge seismic retrofit,
 - Bridge demolition,
 - Large retaining walls,
 - Steep terrain,
 - Hard rock excavation, and
 - Roadway and interchange work.
 - Experience estimating costs for projects in locations that encounter geotechnical and environmental conditions similar to those encountered at the Project site.
 - Ten or more years of recent and relevant estimating experience in all trades of heavy civil and transportation, along with a knowledge of construction means, methods, and equipment in these areas.
 - Experience with identifying, assessing and pricing risk.

- Experience working on CM/GC projects and an understanding of the CM/GC delivery method, including the roles and responsibilities of the various parties (owner, CM/GC, Design Consultant, ICE, CM) involved.
 - Experience working with owners, designers, and CM/GCs, serving as an Independent Cost Estimator on a CM/GC project(s).
 - Experience working for a construction contractor estimating and/or managing construction projects that are relevant to the YBI Westside Bridges project.
 - Experience estimating projects with Disadvantage Business Enterprise (DBE) including experience in DBE outreach and pricing of DBE work in construction contracts.
- The ICE construction cost estimating scope of services to be provided includes, but is not limited to, the following:
 - Provide an early (prior to 35% Opinion of Probable Construction Cost (OPCC)) independent analysis of cost and schedule impacts for design alternatives (e.g., bridge and wall types) under consideration.
 - Provide independent cost estimates during final design, utilizing contractor style (production-based) methodologies and production-based heavy civil estimating software platforms. Cost estimates are expected to occur at three pricing milestones during the design phase (35%, 65%, 95%) and for the bid for each construction contract (work package). The bid will take place at the point in time when the Transportation Authority, the Design Consultant, and the CM/GC Contractor agree that the Project has been designed to a sufficient level of detail to allow the CM/GC Contractor to accurately bid the Project or work package.
 - Provide summary and detailed cost breakdowns and translate production-based estimates into Transportation Authority unit price estimate format. Utilize Transportation Authority standards with a demonstrated familiarity of California labor laws.
 - Bid review and assessment for recommendation in award of a construction contract.
 - Attend reconciliation meetings between the Transportation Authority and the CM/GC Contractor at pricing milestones and after bid submittal (as necessary) for each contract or work package. The CM/GC Contractor's responsibility at these meetings is to gain a common understanding of bidding assumptions (including means and methods, equipment, material costs, and risk assignment) and advise the Project Team if there are more cost effective ways of accomplishing the work.
 - Provide feedback on risk management which may include risk identification, assessment, cost quantification, and assignment of the probability of occurrence. Document cost savings and efficiencies through the risk management process.
 - Provide assistance to the Project Team with respect to determining cost impacts of: project phasing, labor availability, mobilization and site access, sequence of design and construction, and availability and procurement of equipment and materials.
 - Attend and participate in the following meetings:
 - Initial Kickoff Meeting;
 - Design workshops prior to each pricing milestone and bid;

- Risk workshops prior to each pricing milestone and bid;
- Price reconciliation meeting(s) following each pricing milestone and bid; and
- Regular Project Team meetings/conference calls (anticipated to occur each week) during the pre-construction phase of the Project to discuss work in progress, work completed, upcoming priorities, issues, and risks to the Project scope, schedule review and update, and any budget or contract issues. It is anticipated that the ICE will be required to attend, in-person, one of these meetings per month at a co-located project facility, to be determined in the San Francisco areas. The ICE will be expected to participate remotely (conference call/web) in the remaining regularly scheduled Project Team meetings.
- Maintain meeting minutes, including participation, topics, actions items, and decisions made.
- The construction of this Project will be funded, in part, by Federal Funds and will include a DBE goal for each federally funded construction contract. The CM/GC Contractor will be expected to engage in DBE outreach, including interviewing potential DBEs, to estimate the cost of construction while meeting the specified goal.
- Demonstrate practicality in approach and concentrate remarks and discussions on critical path and high-risk activities as identified in the Risk /Opportunity Register that will be developed during the Risk Workshops and maintained by the Transportation Authority and the Design Consultant.
- Provide schedule and cost analysis, as needed, for any change orders issued during the construction phase of the Project.

Phase 2 – Construction Phase Services

- 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.
- 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 Assistance Procedures 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, USCG, 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.
- 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
 - Review of 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.
- 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, 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, USCG, 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.
- Coordinate and meet construction oversight requirements of Caltrans, USCG, TIDA, the City and the US Navy for work being performed within the respective jurisdictions. Construction Manager shall be responsible for coordinating with Caltrans, USCG, TIDA and the City regarding traffic control measures, press releases, responses to public inquiries, and complaints regarding the project.
- Oversee environmental mitigation monitoring performed under a separate contract by the Transportation Authority's design and environmental consultant team. Monitor and enforce Construction Contractor SWPPP compliance.
- Enforce safety and health requirements and applicable regulations for the protection of the public and project personnel.
- Facilitate all necessary utility coordination with respective utility companies.
- Provide coordination and review of Construction Contractor's detours and staging plans with Caltrans, and SFOBB 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.

Phase 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 selected 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, USCG and TIDA. The selected 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 the Congestion Management Agency (CMA) for San Francisco and in cooperation with TIDA, the City's Mayor's Office, and Caltrans District 4.

Attachment 2
**Construction Management Services for the Yerba Buena Island Southgate Road
Realignment Improvements**
Scope of Services

The Transportation Authority will be using the more traditional Design-Bid-Build project delivery method for Yerba Buena Island (YBI) Southgate Road Realignment Improvements. The construction management contract for the YBI Southgate Road Realignment Improvements 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:

Phase 1 – Pre-Construction Services

- Perform constructability 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.
- Perform biddability review of the 100% contract documents (construction plans, special provisions, bid proposal and relevant information) for the project and submit a biddability report on discrepancies, inconsistencies, omissions, ambiguities, proposed changes and recommendations.
- Prepare a detailed 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.

Phase 2 – Construction Phase Services

- 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 Assistance Procedures 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, USCG, 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.
- 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
 - Review of 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.
- 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, 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, USCG, 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.
- Coordinate and meet construction oversight requirements of Caltrans, USCG, TIDA, the City and the US Navy for work being performed within the respective jurisdictions. Construction Manager shall be responsible for coordinating with Caltrans, USCG, TIDA and the City regarding traffic control measures, press releases, responses to public inquiries, and complaints regarding the project.
- Oversee environmental mitigation monitoring performed under a separate contract by the Transportation Authority's design and environmental consultant team. Monitor and enforce Construction Contractor SWPPP compliance.
- Enforce safety and health requirements and applicable regulations for the protection of the public and project personnel.
- 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.

Phase 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 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 Authority, Caltrans, USCG and TIDA. The selected Construction Manager will report directly to Eric Cordoba, the Transportation Authority's Project Manager.

The successful 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.