

**GENERAL MEETING OF THE BOARD OF DIRECTORS  
OF THE  
CENTRAL TEXAS REGIONAL MOBILITY AUTHORITY**

**RESOLUTION NO. 09-73**

**HNTB GEC Scope of Services/Work Authorization No. 1 for  
Construction Engineering, Inspection and Construction Management Services  
Related to the 183A Phase II Project**

WHEREAS, the Central Texas Regional Mobility Authority ("CTRMA") was created pursuant to the request of Travis and Williamson Counties and in accordance with provisions of the Transportation Code and the petition and approval process established in 43 Tex. Admin. Code § 26.01, *et. seq.* (the "RMA Rules"); and

WHEREAS, the Board of Directors of the CTRMA has been constituted in accordance with the Transportation Code and the RMA Rules; and

WHEREAS, the CTRMA utilizes HNTB as a General Engineering Consultant ("GEC") pursuant to an existing Agreement for General Consulting Engineering Services dated September 1, 2003 and the CTRMA Board of Directors has authorized the negotiation and execution of a new GEC Agreement (the "New GEC Agreement") that will be executed prior to expiration of the existing Agreement; and

WHEREAS, the GEC provides various services to the CTRMA, including the oversight and management of certain aspects of the development, design, construction and operation of its proposed and existing projects; and

WHEREAS, such GEC services include providing construction engineering, inspection and construction management services during the pre-construction and construction phases of certain projects (the "GEC Construction Services"); and

WHEREAS, the CTRMA has previously caused the design and engineering work to be prepared for the 183A Phase II Project (the "Project"); and

WHEREAS, Work Authorization No. 1 to the New GEC Agreement, including a Scope of Services ("Work Authorization No. 1") describing the GEC Construction Services to be utilized in connection with the Project has been developed and is in substantially the form attached hereto as Attachment "A", and such Work Authorization No. 1 establishes a "not to exceed" amount to be paid as compensation for the GEC Construction Services; and


WHEREAS, it is necessary that the Board of Directors approve Work Authorization No. 1 and its execution prior to the commencement of construction of the Project, with any approval of Work Authorization No. 1 being subject to the final execution of the New GEC Agreement.

NOW THEREFORE, BE IT RESOLVED, that the Board of Directors of the CTRMA hereby adopts and approves Work Authorization No. 1 and the related Scope of Services in substantially the form attached hereto as Attachment "A"; and


BE IT FURTHER RESOLVED, that Work Authorization No. 1 and the related Scope of Services may be finalized and executed by the Executive Director on behalf of the CTRMA at any time after the final execution of the New GEC Agreement and that Work Authorization No. 1 may be amended from time to time by written amendment as deemed necessary the Board of Directors.

Adopted by the Board of Directors of the Central Texas Regional Mobility Authority on the 18<sup>th</sup> day of November, 2009.

Submitted and reviewed by:

  
\_\_\_\_\_  
Tom Nielson  
General Counsel for the Central  
Texas Regional Mobility Authority

Approved:

  
\_\_\_\_\_  
Ray A. Wilkerson  
Chairman, Board of Directors  
Resolution Number 09-73  
Date Passed 11/18/09

ATTACHMENT "A"

TO

RESOLUTION 09-73

HNTB GEC Scope of Services/Work Authorization No. 1 for 183A Phase II Project

**EXHIBIT D**  
**WORK AUTHORIZATION**

**Work Authorization No. 1.0**

This Work Authorization is made as of this \_\_\_ day of \_\_\_\_\_, 20\_\_\_, under the terms and conditions established in the AGREEMENT FOR GENERAL CONSULTING ENGINEERING SERVICES, dated as of \_\_\_\_\_, 20\_\_\_ (the Agreement), between the Central Texas Regional Mobility Authority (Authority) and HNTB Corporation (GEC). This Work Authorization is made for the following purpose, consistent with the services defined in the Agreement:

*183A Phase II*  
*Construction Engineering & Inspection and Construction Management Services*

**Section A. - Scope of Services**

A.1. GEC shall perform the following Services:

Please reference Attachment A – Scope of Work

A.2. The following Services are not included in this Work Authorization, but shall be provided as Additional Services if authorized or confirmed in writing by the Authority.

Please reference Attachment A – Scope of Work

A.3. In conjunction with the performance of the foregoing Services, GEC shall provide the following submittals/deliverables (Documents) to the Authority:

Please reference Attachment A – Scope of Work

**Section B. - Schedule**

GEC shall perform the Services and deliver the related Documents (if any) according to the following schedule:

Services defined herein are expected to be substantially complete within **thirty two (32) months** from the date this Work Authorization 1.0 becomes effective. This Work Authorization 1.0 will not expire until all tasks associated with the Scope of Services are complete.

**Section C. - Compensation**

C.1. In return for the performance of the foregoing obligations, the Authority shall pay to the GEC the amount not to exceed **\$9,594,539.00** based on Attachment B -Fee Estimate. Compensation shall be in accordance with the Agreement.

The Authority and the GEC agree that the budget amounts contained in Attachment B-Fee Estimate for the various companies and firms composing the GEC are

estimates and that these individual figures may be redistributed and/or adjusted as necessary over the duration of this Work Authorization. The GEC may alter the compensation distribution between tasks or work assignments to be consistent with the Services actually rendered within the total Work Authorization amount. The GEC shall not exceed the maximum amount payable without prior written permission by the Authority.

C.2. Compensation for Additional Services (if any) shall be paid by the Authority to the GEC according to the terms of a future Work Authorization.

**Section D. - Authority's Responsibilities**

The Authority shall perform and/or provide the following in a timely manner so as not to delay the Services of the GEC. Unless otherwise provided in this Work Authorization, the Authority shall bear all costs incident to compliance with the following:

N/A

**Section E. - Other Provisions**

The parties agree to the following provisions with respect to this specific Work Authorization:

N/A

Except to the extent expressly modified herein, all terms and conditions of the Agreement shall continue in full force and effect.

Authority: Central Texas Regional Mobility  
Authority

GEC: HNTB Corporation

By: \_\_\_\_\_

By: \_\_\_\_\_

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**CENTRAL TEXAS RMA**  
**ATTACHMENT A – SCOPE OF WORK**  
**WORK AUTHORIZATION NO. 1**

**SERVICES TO BE PROVIDED BY THE GENERAL ENGINEERING CONSULTANT**  
**(GEC)**

**General**

The services to be performed by the GEC will include, but not be limited to, construction engineering & inspection and construction management services necessary to oversee the construction of the 183A Phase II Project through a Design-Bid-Build construction contract. This will entail those professional services and associated deliverables required to complete the inspection and oversight activities associated with the management of the contractor(s) (hereinafter referred to as the Contractor).

The GEC will maintain a Construction Management staff at the Contractor-provided Project Field Office to manage and administer the planning, execution, and control of the construction engineering and inspection, including invoicing and administrative support for activities required to complete the overall construction oversight efforts. This staff will represent the CTRMA's interests as defined in the construction contract. To effectively perform the tasks associated with this scope, it is anticipated that the GEC will provide a core fulltime Construction staff at the Field Office.

**1. Construction Supervision, Inspection and Testing (Code 13620)**

The GEC will be the single point of contact between the CTRMA and the respective Contractor and the Engineer(s) of Record, acting as an extension of CTRMA staff by providing qualified technical and professional personnel to perform the duties and responsibilities assigned under the terms of this Agreement. The GEC shall not control or direct the construction under the construction contract. Field inspections, testing and oversight reviews by the GEC will not relieve the Contractor of sole responsibility for the means and methods of construction, or for health or safety precautions in connection with the work under the construction contract. The Engineer(s) of Record will remain responsible for design related services.

**1.1. Construction Inspection and Engineering**

The GEC will provide quality control and assurance oversight for the construction of the Project through construction inspection and engineering services in accordance with the Construction Quality Management Plan. Included with this task will be the following efforts:

- Establish and maintain the Project Field Office operation within the Contractor-provided facility; including the purchase, installation and maintenance of IT equipment; leasing and maintenance of project vehicles; and any additional expenses required by the Project.
- Review the Contractor's plan for construction Quality Control to be used in the field.
- Inspect Contractor's construction operations.
- Maintain diary and associated required documentation.
- Schedule and lead Pre-Construction conference for the Project.
- Document pre-Project conditions via still photography and video.
- Coordinate review of concrete, asphalt and lime mix designs as submitted by the Contractor for concurrence with contract documents as required by the Project design and specifications. The Engineer(s) of Record will be responsible for final approval.
- Coordinate, prepare, and attend weekly Project Construction Progress Meetings with the Contractor. Review for accuracy and completeness Contractor prepared meeting minutes and required action items for distribution and archive.

## **1.2. Project Controls**

Specific tasks will include:

### **1.2.1. Database Maintenance and Construction Electronic Data Management System (EDMS)**

- Develop project document control protocol.
- Perform training of field personnel in the use of Construction EDMS applications and work processes.
- Maintain a database and software associated with the EDMS and the user interfaces with EDMS.
- Develop and maintain Dashboard access for real-time project financial, schedule and other data status.
- Provide security monitoring of network access.
- Provide maintenance of servers, workstations, and network equipment as required for field staff.

### **1.2.2. Tracking Maintenance**

- Maintain the tracking database for correspondence, transmittals, requests for information, meeting minutes, action items, submittals, Inspector daily reports, project diary, project schedule, change orders, pay estimates, lien waivers, shop drawings, working drawings, erection drawings, catalog cut sheets, mix designs, non-conformance reports, payment certifications, Insurance and Bonds, material test data, schedules, audits, related technical data, and issues associated with the Project.

### **1.2.3. Data Backups**

- Perform backup of Project database on a daily basis.

#### **1.2.4. Document Distribution**

- Assign identification coding to incoming and outgoing project related documentation and perform entry into the EDMS.
- Prepare, manage, record, distribute and archive documentation of project activities, progress, and related communications.
- Log and track submittals and deliverables.

#### **1.2.5. Response to Open Records Requests**

- Perform retrieval of documents as a result of Open Records Requests.

#### **1.2.6. Mail Services**

- Provide mail services for the Project (US, Priority, Courier, Internal and External).

### **1.3. Materials Testing**

The GEC will provide Quality Control and Quality Assurance testing of materials incorporated into the Project. Coordinate materials testing operations, and review Material Test Reports. Materials Testing procedures will include:

#### **1.3.1. Quality Control & Assurance**

- Review Contractor provided Certification Program for materials utilized by the Project for the construction of the Project in accordance with the Construction Quality Management Plan.
- Review Contractor developed procedures and requirements for handling, storage, shipping, and preservation of materials incorporated into the work; including Corrective Action procedures for test or inspection failures, malfunctions or deficiencies.
- Submit construction QC/QA Material Certification letter monthly to CTRMA.
- All material test results will be reviewed by the Resident Engineer.

#### **1.3.2. Verification**

- Develop and implement a testing plan in compliance with TxDOT's Guide Schedule of Sampling and Testing for the Project.
- Perform the testing of construction materials utilized on the Project.
- Prepare and manage Non-Compliance Reports (NCRs) for failing tests as appropriate.
- Prepare control charts for applicable test values.
- Provide materials advice as deemed necessary.
- Maintain a material testing database.
- Review mill and shop inspection and laboratory tests and field tests of construction materials performed by the testing engineer and the off-site materials testing agency.



#### **1.4. Survey Support**

The GEC will:

- Provide control points and associated vertical and horizontal quality assurance survey checks with documentation for the Contractor's use to establish line and grade.
- Perform miscellaneous spot checks as needed during the duration of the Project.
- Perform a low level flight upon completion for Asset Management and as-built verification.

#### **1.5. Traffic Control Assurance**

The GEC will:

##### **1.5.1. Quality Control and Assurance**

- Review, monitor and recommend modifications to the Contractor's maintenance of traffic/traffic control operations according to applicable specifications and standards.

##### **1.5.2. Compliance**

- Document and issue deficiency reports to the Contractor on any non-compliance of traffic control devices or layouts.

##### **1.5.3. Coordination**

- Coordinate with the Contractor, affected third parties, interested agencies, emergency responders and CTRMA for major traffic disruptions.

##### **1.5.4. Meetings**

- Attend meetings pertaining to the traffic control and maintenance of traffic that are held by the Contractor, designers or interested parties.

#### **1.6. Environmental Compliance**

The GEC will:

##### **1.6.1. Document Review**

- Review applicable Environmental Permits.

##### **1.6.2. Quality Control & Assurance**

- Monitor Contractor's compliance with the SWPPP plans and permit requirements; coordinate other environmental concerns during construction.
- Monitor Contractor's operations for adherence to environmental commitments contained within the environmental studies.

##### **1.6.3. Coordination**

- Coordinate with the Contractor for adherence to the Project permits and documenting as such. The GEC will issue non-compliant documentation in instances where permit requirements fall below requirements.
- Coordinate environmental commitments consistently throughout the CTRMA Projects.

- Coordinate permit close-out activities.

**1.6.4. Meetings**

- Attend, hold and/or document any environmental compliance meetings as deemed appropriate.

**1.7. Utility Engineering**

The GEC will:

**1.7.1. Utility Adjustment Coordination**

- Participate in meetings, as necessary, in the utility coordination process.
- Schedule periodic meetings with utility owner's representatives for coordination purposes.
- Attend meetings with CTRMA and other interested parties as directed.
- Meet with the Contractor and/or designer as necessary to resolve matters relating to schedules, utility identification, design changes, conflict resolution, and negotiation with utility owners.
- Assist CTRMA with negotiating the details of utility agreements with the utility companies. Details will include any necessary betterment percentages, indirect costs, plans, estimates and schedules for the utility companies' activities. The GEC will also prepare draft agreements for CTRMA's use including the necessary exhibits and information concerning the Project (such as reports, plans and surveys).
- Monitor and report utility adjustment status.

**1.7.2. Utility Engineering**

- Review existing utility information for conflicts with the proposed Project and provide a utility conflict analysis as necessary.
- Provide a conceptual utility relocation plan if necessary.
- Review utility plans for compliance with the TxDOT Utility Accommodation Policy, compatibility with the Project features, betterment inclusion and constructability.
- Provide oversight review of location, materials, and backfilling of trenches associated with utility adjustments; the GEC is not responsible for actual location of utilities.

**1.8. Technical Advice**

The GEC will:

- Advise and assist the CTRMA on matters of construction related to interpretation of design details, construction techniques and procedures, specifications, standard construction details, and construction plans prepared by the Design Engineer(s).
- Seek clarifications from the Design Engineer(s) on the intent reflected in the designs, plans, and specifications. The Engineer of Record will remain responsible for design related services.

**1.9. Final Punch List / Final Inspection**

The GEC will:

- Coordinate with the Contractor in the generation of preliminary and final punch lists.
- Monitor the resolution of outstanding construction items.
- Verify and certify Final Inspection Reports of the completed construction; issue recommendations and certification of completion of construction.

**1.10. Deliverables**

- Diary (objective and consisting of documented facts and statements only)
- Inspector Daily Reports
- Pay Item Computation (if needed)
- Documentation of Contractor Progress Payments
- Embankment, Sub-grade, Sub-base and Base Course Testing
- Concrete Plant and Concrete Related Field Inspection Reports (calibrations, gradations, admixtures, slump, air content, etc.)
- Concrete Delivery Tickets with an attached documentation indicating date, pay item(s), placement location and cumulative quantity
- HMA Plant Reports
- HMA and Concrete Mix Designs
- HMA Tickets (for HMA binder, surface or leveling course binder mixes and tack coat) indicating date, pay item(s), placement location, cumulative total, and any additional information needed
- Drilled Shaft drilling logs
- Concrete Volume Checks
- Miscellaneous and Material Certifications
- Off-Site Testing and Inspection Reports
- Accident Reports prepared by others for major accidents within the work zone (fatality or medical treatment required)
- Miscellaneous documents (source of aggregate, Shop Drawings, Subcontractor acceptance, and Purchase Orders)
- Weekly Progress Reports and Weekly Meeting Minutes
- Project Close-Out Documentation

**2. Construction Litigation - Dispute/Claims Support (Code 13680)**

The GEC will provide consultation and assistance to the CTRMA, the testing engineer, and the General Counsel of the CTRMA related to aspects of the design, construction, duties, and services required during the construction of the Project.

**2.1. Dispute Analysis**

- The GEC will assemble supporting documentation, review, analyze and provide opinions to CTRMA on the Contractor's submittal of a dispute.

**2.2. Claim Package Analysis**

- The GEC will review, analyze and provide opinions to CTRMA on the Contractor's claim package submittal.
- Participate as needed in preparation and presentation to Dispute Resolution Board.

**3. Project Oversight – Construction (Code 13720)****3.1. Project Management**

The GEC will:

- Develop and maintain a staffing plan for consistency and appropriate levels of field staffing. Provide staff to manage the daily activities of the Project according to the Construction Quality Management Plan.
- Work with CTRMA, TxDOT, design consultants, third party consultants, utility companies, public agencies, contractors and the general public to coordinate construction activities.
- Coordinate the details of and participate in Project's Partnering Meeting, if held, as a representative of the CTRMA. The costs associated with the Partnering Meetings, such as venue and facilitator, will be the responsibility of CTRMA.
- Coordinate, contract and provide oversight for any required sub-consultants.

**3.2. Construction Quality Management Plan (CQMP)**

The GEC will:

- Develop a CQMP consisting of GEC's Quality Control/Quality Assurance Plan integrated with the Contractor's Quality Plan; including at a minimum:
  - Identification of Contractor's Construction Quality Manager
  - Qualification of the GEC Quality Control personnel
  - Checklists for quality inspections for specific work items including inspection "hold-points"
  - Documentation procedures for field inspections, materials testing, and EDMS interface
  - Generation, tracking, and resolution of Non-Conformance Reports (NCRs)
  - Issue resolution escalation structure
- Maintain the CQMP as a living document by the addition, modification, or deletion of

provisions as necessary and issue revisions as the Project progresses.

### **3.3. Document Controls**

The GEC will:

- Develop and implement a Document Control Plan.
- Maintain Project files for the duration of the Project.
- Transfer Project files to CTRMA upon completion of the work or as directed by the CTRMA.

### **3.4. Program Reporting**

The GEC will:

- Prepare and issue monthly status reports on the Project's construction status which will document any issues, delays encountered, and corrective actions as necessary.
- Provide a monthly update to CTRMA on key milestones accomplished during the preceding month, meetings and key activities for the upcoming month, and identify outstanding issues requiring resolution.
- Track, monitor, and report on contracts and budgets for the GEC and sub-consultants.
- Track, monitor, and prepare reports on DBE utilization for the GEC and sub-contractors, and DBE programs for other program contracts including construction contracts.

### **3.5. Trust Indenture Obligations**

The GEC will:

- Perform all duties and services, render opinions, and issue certificates specified for the GEC in the Trust Agreement(s) necessary for securing the revenue bonds issued by the CTRMA to finance the Project.
- Prepare Quarterly Reports with an Executive Summary that provides a comprehensive summary of the monthly reports and the overall Project progress.

### **3.6. Project Meetings & Documentation**

#### **3.6.1. Meetings**

The GEC will facilitate the following project meetings to assess progress, schedule, and quality of services being provided as well as identify issues:

- Project Construction Progress Meetings (Weekly)
- Issue Resolution Meetings (As Needed)

#### **3.6.2. Documentation**

The GEC will prepare agendas, meeting minutes, action items and follow-up action item status for each of the Project meetings and distribute to attendees and appropriate personnel.

### **3.7. CTRMA Construction Coordination Support**

The GEC will support CTRMA in coordination and any interlocal agency agreements including exhibit preparation and supporting document preparation and assembly with the following agencies:

- Texas Department of Transportation (TxDOT)
- Federal Highway Administration (FHWA)
- Capital Area Metropolitan Planning Organization (CAMPO)
- Capital Metropolitan Transportation Authority (CAPMETRO)
- Williamson County
- Travis County
- Local Municipalities and Municipal Utility Districts
- Other Agencies as identified and as directed by CTRMA

### **3.8. General Technical Support**

The GEC will provide technical support and management assistance as required by the CTRMA toward the successful completion of the Project; including:

- Advise the CTRMA on matters of engineering related to interpretation of design details, construction techniques and procedures, specifications, standard construction details, and construction plans prepared by the Design Engineer(s).
- Seek clarifications from the Design Engineer(s) when necessary on the intent reflected in the design plans and specifications. The Engineer of Record will remain responsible for design related services.

### **3.9. Project Scheduling**

The GEC will:

- Evaluate, monitor and verify according to contractual requirements, the construction schedule (baseline and updates) as submitted by the Contractor.
- Report and verify the Contractor's progress and upcoming milestones on a monthly basis to CTRMA.
- Identify, catalog, and archive Baseline Schedule and schedule revisions. Evaluate time impacts and report to CTRMA.

### **3.10. Contract Management and Administration**

The GEC will:

#### **3.10.1. Change Order Processing & Management**

- Provide review of Change Orders on the Project and process in accordance with the Project Construction Management Plan and coordinate with external agencies as required.
- Review Change Order cost estimates prepared by the Contractor, evaluate Contractor claims for extension of time, and provide comments to CTRMA.
- Maintain, log and retain all documents associated with Change Orders.
- Provide constructability reviews of Work Sequence Plans submitted by the Contractor. The Contractor will be responsible for final approval.

- Assist in review of Contractor initiated alternative design or substitution proposals. The Engineer(s) of Record will be responsible for the design and approval of any design alternative, alteration or revision.
- Coordinate with the Engineer(s) of Record.

#### **3.10.2. Requests for Information (RFI) Processing and Management**

- Review and facilitate responses to RFIs on the Project.
- Maintain, log and retain all documents associated with RFIs.
- Coordinate with the Engineer(s) of Record.

#### **3.10.3. Shop Drawing / Submittals Processing and Management**

- Review shop drawings, erection drawings, working drawings, samples, material and product certifications, and catalog cuts and brochure submittals for general conformance with the design plans and specifications submitted by the Contractor prior to forwarding to the Design Engineer. The Engineer of Record will be responsible for final approval.
- Maintain, log and retain all documents associated with shop drawings.
- Coordinate with the Engineer(s) of Record.

#### **3.10.4. Contractor Pay Requests**

- Review and provide required certifications to the CTRMA for processing of the Contractor's partial and final pay requests.
- Evaluate the pay requests for proper documentation and signature by the Contractor in accordance with the requirements of the Contract and to ensure that it accurately reflects monies due for acceptable work completed.

#### **3.10.5. Records Management**

- Maintain and retain pertinent documentation on the Project.
- At the completion of the Project, return all such documentation to CTRMA for their storage.
- Coordinate document integration with the CTRMA EDMS.

#### **3.11. Record Drawings**

- Compile and provide the CTRMA with Record Plans incorporating construction revisions into the original "as bid" construction plans. The GEC is not responsible for any errors or omission in the information provided by the Contractor that are incorporated into the record drawings.

#### **3.12. Deliverables**

- Change Orders, Partial and Final Pay Estimates.
- Correspondence.
- RFI files and Log.
- Submittal log.
- Approved DBE Utilization Plan, all DBE / EEO related correspondence, and Contractor daily headcounts.

- Letters from the CTRMA to the Contractor documenting acceptance, time extension(s), and/or assessment of Liquidated Damages for all Interim Completion Dates, Substantial Completion Dates, and/or Final Completion Date, as applicable.
- Final Record Drawings.
- Comprehensive construction contract progress reporting with weekly frequency of reporting for all large contracts.

#### **4. Public Involvement (Code 13750)**

Support CTRMA in the administration, management and coordination of the overall public involvement efforts.

##### **4.1. Public Information and Construction Updates**

Coordinate and assist with public outreach concerning Project information and construction updates, including:

- Work with the Contractor to develop Public Information Plan (PIP) for the Project.
- Respond to public inquiries regarding the Project, specifically with the use of a telephone hotline phone number and an e-mail hotline address.
- Coordinate with the Contractor to prepare and conduct monthly briefings to stakeholders, as needed.

##### **4.2. Public Outreach Support**

Coordinate / support / assist various public outreach meetings and events, as requested by the CTRMA; including:

- Small meetings and one-on-one meetings with stakeholders.
- Project tours for visitors and other delegations.

##### **4.3. Media Outreach Support**

Assist the CTRMA Director of Communications, as requested, with the following public and media outreach tasks:

- Update the Project web site.
- Issuance of public notices of traffic phase changes and local road detours and closures with the Contractor.
- Respond to media inquiries.
- Respond to Open Record Requests.



**SUMMARY**

Task	Fee
Construction Inspection & Engineering Services - Field Office	\$7,963,972
Project Oversight (Construction) - Design Office	\$1,630,567
<b>TOTAL</b>	<b>\$9,594,539</b>

Manhours							
A	B1	B	C	D	E	F1	F
<i>Principal</i>	<i>Technology Expert</i>	<i>Dep PM</i>	<i>Senior Project Engineer</i>	<i>Project Engineer</i>	<i>Technician</i>	<i>Project Administrator</i>	<i>Clerical / Administrative Support</i>
\$ 92.00	\$ 92.00	\$ 77.00	\$ 64.00	\$ 58.00	\$ 37.00	\$ 37.00	\$ 26.00
0	0	3284	7972	3284	37124	3184	2053
774	1398	1466	1360	1782	1130	200	1060
774	1398	4750	9332	5066	38254	3384	3113
\$ 71,208	\$ 128,616	\$ 365,750	\$ 597,248	\$ 253,300	\$ 1,415,398	\$ 125,208	\$ 80,938
					\$ 82,954		
\$ 110,728	\$ 199,998	\$ 434,443	\$ 657,749	\$ 306,675	\$ 1,471,431	\$ 132,131	\$ 97,510
\$ 21,832	\$ 39,434	\$ 96,023	\$ 150,600	\$ 67,197	\$ 356,374	\$ 30,881	\$ 21,414
\$ 203,769	\$ 368,048	\$ 896,216	\$ 1,405,597	\$ 627,172	\$ 3,326,157	\$ 288,219	\$ 199,861

Labor Costs	
Premium OT	
Overhead Costs	
Profit	12%
Total Loaded Labor Cost	
<b>Direct Expenses</b>	
Construction Inspection & Engineering Services - Field Office	\$ 633,500
Project Oversight (Construction) - Design Office	\$ 12,000
<b>Total Direct Expenses</b>	<b>\$ 645,500</b>
<b>Subconsultants</b>	
Rodriguez Transportation Group	\$ 700,000
Rodriguez Engineering Laboratories	\$ 711,000
Keville Enterprises, Inc.	\$ 40,000
Payne Consultants, Inc.	\$ 33,000
Surveying	\$ 150,000
<b>Total Subconsultants</b>	<b>\$ 1,634,000</b>
<b>Total Loaded Labor</b>	<b>\$ 7,315,039</b>
<b>Total Direct Expenses</b>	<b>\$ 645,500</b>
<b>Total Subconsultants</b>	<b>\$ 1,634,000</b>
<b>Total</b>	<b>\$ 9,594,539</b>

Construction Inspection & Engineering Services - Field Office

MANHOURS

Task	Brief Description	(Labor Rates)	MANHOURS							TOTAL HRS	
			A	B1	B	C	D	E	F1		F
1.0	Construction Supervision, Inspection and Testing (Code 13610)										
1.1	Construction Inspection and Engineering			1900	6640	832	24000	3184	72	33528	
1.2	Project Controls										
1.2.1	Database Maintenance and EDMS						208		159	367	
1.2.2	Tracking Maintenance						416		318	734	
1.2.3	Data Backups						416		318	734	
1.2.4	Document Distribution						3210		366	3576	
1.2.5	Response to Open Records Request						104		40	144	
1.2.6	Mail Services						104		300	404	
1.3	Materials Testing										
1.3.1	Quality Control & Assurance			48	180	80				308	
1.3.2	Verification			80	240		5440			5760	
1.4	Survey Support				120					120	
1.5	Traffic Control Assistance										
1.5.1	Quality Control & Assurance			46	116					162	
1.5.2	Compliance			40	188					228	
1.5.3	Coordination			40	124					164	
1.5.4	Meetings			40	140					180	
1.6	Environmental Compliance										
1.6.1	Document Review			40	180		600		20	840	
1.6.2	Quality Control & Assurance			176	200					376	
1.6.3	Coordination			100	100		200		20	420	
1.6.4	Meetings				86		200			286	
1.7	Utility Engineering										
1.7.1	Utility Adjustment Coordination				120	38				158	
1.7.2	Utility Engineering				120	38				158	
1.8	Technical Advice			414	1232	1064	832			4142	
1.9	Final Punch List / Final Inspection			40	32	32	64			168	
1.0	Project Oversight - Construction (Code 13720)										
1.9	Project Scheduling			160		240				400	
1.10	Contract Management and Administration										
1.10.1	Change Order Processing & Management			40	70	40	40		20	210	
1.10.2	RFI Processing & Management			40	70	40	40		20	210	
1.10.3	Shop Drawing/Submittals Process & Management					20	40			60	
1.10.4	Contractor Pay Requests			60		80	210			350	
1.10.5	Records Management			20		180	100		200	500	
	Premium Overtime Hours						4484			4484	
	<b>TOTAL GFC TEAM DIRECT LABOR</b>		0	0	3284	7972	3284	37124	3184	2052	56901
	% Total by Classification		0.00%	0.00%	5.77%	14.01%	5.77%	65.24%	5.60%	3.61%	
	Labor Costs		\$ -	\$ -	\$ 252,868	\$ 310,208	\$ 164,200	\$ 1,373,588	\$ 117,208	\$ 53,378	\$ 2,172,250
	Premium Overtime (Rate x hr x 0.5)						\$ 82,954			\$ 82,954	
	Overhead Costs	102.30%	\$ -	\$ -	\$ 258,912	\$ 522,402	\$ 168,124	\$ 1,406,417	\$ 120,624	\$ 54,651	\$ 2,531,132
	Profit	12.00%	\$ -	\$ -	\$ 61,414	\$ 123,913	\$ 29,879	\$ 343,555	\$ 28,612	\$ 12,964	\$ 610,336
	<b>Total Loaded Labor</b>		\$ -	\$ -	\$ 373,195	\$ 1,156,533	\$ 372,203	\$ 3,206,514	\$ 207,043	\$ 170,996	\$ 5,066,472
	<b>Direct Expenses</b>										
	Plotting and Reproduction	Cost	\$ -								
	Computer Lease	\$ 140,000									
	Mail and Deliveries	\$ 6,000									
	Vehicle Cost, Fuel & Maintenance	\$ 302,000									
	Electronic Document Control	\$ 140,000									
	Travel and Field Expenses	\$ 35,500									
	Field Materials Testing	\$ 50,000									
	<b>Total Direct Expenses</b>	\$ 633,500									
	<b>Subconsultants</b>										
	Rodriguez Transportation Group	\$ 700,000									
	Rodriguez Engineering Laboratories	\$ 711,000									
	Kaville Enterprises, Inc.	\$ 40,000									
	Fugro Consultants, Inc.	\$ 33,000									
	Surveying	\$ 150,000									
	<b>Total Subconsultants</b>	\$ 1,634,000									
	<b>Total Loaded Labor</b>	\$ 5,066,472									
	<b>Total Direct Expenses</b>	\$ 633,500									
	<b>Total Subconsultants</b>	\$ 1,634,000									
	<b>Total</b>	\$ 7,363,972									

Project Oversight (Construction) - Design Office

Task	Work Description	(Labor Rates)	MANHOURLS							TOTAL HRS	
			A	B1	B	C	D	E	F1		F
1.0	Construction Supervision, Inspection and Testing (Code 13620)										
1.1	Construction Inspection and Engineering			430							430
1.2	Project Control										
1.2.1	Database Maintenance and EDMS	80			300					80	480
1.2.2	Tracking Maintenance										
1.2.3	Data Backups										
1.2.4	Document Distribution										
1.2.5	Response to Open Records Request	10								40	40
1.2.6	Mail Services										
1.3	Materials Testing										
1.3.1	Quality Control & Assurance			16							16
1.3.2	Verification										
1.4	Survey Support										
1.5	Traffic Control Assurance										
1.5.1	Quality Control & Assurance										
1.5.2	Compliance										
1.5.3	Coordination										
1.5.4	Meetings			12							12
1.6	Environmental Compliance										
1.6.1	Document Review										
1.6.2	Quality Control & Assurance			40							40
1.6.3	Coordination			24							24
1.6.4	Meetings			40							40
1.7	Utility Engineering										
1.7.1	Utility Adjustment Coordination			40							40
1.7.2	Utility Engineering										
1.8	Technical Advice			220							220
1.9	Final Punch List / Final Inspection										
2.0	Construction Litigation - Dispute/Claims Support (Code 13680)										
2.1	Dispute Analysis	30	100		100	50					280
2.2	Claim Package Analysis	30	100		100	50					280
3.0	Project Oversight - Construction (Code 12720)										
3.1	Project Management	160		160	240	160		200			920
3.2	Construction Quality Management Plan (CQMP)	44		140	160	180			40		564
3.3	Document Controls			40		100				160	300
3.4	Program Reporting	100		120	220		200		300		940
3.5	Trust Indenture Obligations	100	100	480			120			120	920
3.6	Project Meetings & Documentation										
3.6.1	Meetings	100	40	100		200					440
3.6.2	Documentation	20	10	50		150					230
3.7	CTRMA Construction Coordination Support	80	48	96		192	100				516
3.8	General Technical Support		132	100	100	100					432
3.9	Project Scheduling			20		40					60
3.10	Contract Management and Administration										
3.10.1	Change Order Processing & Management		40	40	70	40	40			20	250
3.10.2	RFI Processing & Management			40	70	40	40			20	210
3.10.3	Shop Drawing/Submittals Process & Manage						20	40			60
3.10.4	Contractor Pay Requests					60	80	210			350
3.10.5	Records Management	20	6	20		180	100			200	526
3.11	Record Drawings					200	200			40	440
4.0	Public Involvement Assistance										
4.1	Public Information and Construction Updates						40				40
4.2	Public Outreach Support						20		40		60
4.3	Media Outreach Support						20				20
<b>TOTAL GEC TEAM DIRECT LABOR</b>			<b>774</b>	<b>1398</b>	<b>1466</b>	<b>1360</b>	<b>1782</b>	<b>1130</b>	<b>200</b>	<b>1060</b>	<b>9170</b>
% Total by Classification			8.44%	15.33%	15.99%	14.83%	19.43%	12.32%	2.18%	11.56%	
Labor Costs		\$ 71,208	\$ 128,614	\$ 112,892	\$ 87,040	\$ 89,100	\$ 41,810	\$ 7,400	\$ 27,560	\$ 565,616	
Overhead Costs	155.50%	\$ 110,728	\$ 199,998	\$ 175,532	\$ 135,347	\$ 138,591	\$ 65,015	\$ 11,507	\$ 42,816	\$ 829,533	
Profit	12%	\$ 21,832	\$ 29,431	\$ 34,610	\$ 26,686	\$ 27,518	\$ 12,819	\$ 2,269	\$ 8,410	\$ 173,418	
Total Loaded Labor		\$ 203,768	\$ 368,043	\$ 323,033	\$ 249,074	\$ 254,969	\$ 119,643	\$ 21,176	\$ 78,886	\$ 1,618,567	
Direct Expenses											
Printing										\$ 10,000	
Mileage										\$ 2,000	
Total Direct Expenses										\$ 12,000	
Total Loaded Labor										\$ 1,618,567	
Total Direct Expenses										\$ 12,000	
Total										\$ 1,630,567	