

**TASK ORDER 1-12 PORTS**

**ENGINEERING SERVICES FOR GEOTECHNICAL EXPLORATION AT  
MULTIPLE SITES IN KEY WEST**

This TASK ORDER 1-12 PORTS is issued under the terms and conditions of the MASTER AGREEMENT TO FURNISH GENERAL ENGINEERING SERVICES TO THE CITY OF KEY WEST ("AGREEMENT") between the City of Key West ("CITY") and CH2M HILL Engineers ("ENGINEER") executed on September 18, 2007, which is incorporated herein by this reference.

A. SCOPE OF SERVICES

Specific services which the ENGINEER agrees to furnish are summarized on the attached statement entitled TASK ORDER 1-12 PORTS "SCOPE OF SERVICES." The "Scope of Services" defines the work effort anticipated for the Task Order.

This Task Order, when executed, shall be incorporated in and shall become an integral part of the September 18, 2007, Master Agreement.

B. TIME OF COMPLETION

Work under this Task Order will begin immediately following acceptance and completed expeditiously subject to coordination with the City of Key West staff.

C. COMPENSATION

Compensation for the labor portions of TASK ORDER 1-12 PORTS, Tasks A will be on a lump sum fee basis as stipulated in Article 2, Paragraph 2.1 of the AGREEMENT. Compensation for all expenses will be on a Cost Reimbursable-Per Diem basis as stipulated in Article 2, Paragraph 2.2 of the AGREEMENT. The estimated compensation is shown on the attached statement entitled TASK ORDER 1-12 PORTS COMPENSATION.

D. ACCEPTANCE

By signature, the parties each accept the provisions of this TASK ORDER 1-12 PORTS, and authorize the ENGINEER to proceed at the direction of the CITY's representative in accordance with the "SCOPE OF SERVICES." Start date for this project will be no later than ten (10) days after execution of this authorization.

For CH2M HILL, Engineers

For CITY OF KEY WEST

By: \_\_\_\_\_  
William D. Beddow  
Vice President

By: \_\_\_\_\_  
Jim Scholl  
City Manager

\_\_\_\_\_  
Andrew H. Smyth, P.E.  
Key West Office Manager

Dated the \_\_\_\_ day of \_\_\_\_\_, 2011

ATTEST: \_\_\_\_\_

# **TASK ORDER 1-12 PORTS**

## **ENGINEERING SERVICES FOR GEOTECHNICAL EXPLORATION AT MULTIPLE SITES IN KEY WEST**

### **SCOPE OF SERVICES**

#### **Project Description**

The City of Key West is currently planning multiple ports related design and construction projects over the next year. These projects include improvements/replacements at Mallory Square T-pier, Zero Duval seawall, the existing Ferry Terminal extension and floating docks and Tarpon Pier. All of these projects require some amount of geotechnical investigation in order to complete the design.

The City has worked with the various engineering firms that are designing these projects and determined that there is a considerable costs savings by combining the geotechnical work for all five (5) separate locations into one project. By combining the geotechnical work into one contract the City will save significant costs by not paying multiple mobilization fees and barge rentals along with the labor costs to manage multiple contracts.

#### **Purpose**

The CITY has requested that the ENGINEER provide engineering services for the geotechnical exploration along with geotechnical features and subsurface condition reporting services at the five (5) separate locations throughout Key West.

#### **Scope of Services**

The scope of services provided below addresses the work to be completed for the project.

#### **Task A - Geotechnical Investigation**

##### **A.1 Field Geotechnical Services**

- ENGINEER will coordinate with the other design consultants to obtain the requirements needed for the individual designs.
- ENGINEER will prepare a single proposal and obtain pricing from multiple qualified Geotechnical Engineering Subconsultants.
- Engineer will contract the services of a responsive, responsible professional Geotechnical Engineering Subconsultant to provide subsurface investigations of the project areas suitable to provide sufficient information for planning and design of the five (5) projects.
- The geology of the study areas are considered to be generally consistent with available geotechnical investigations completed in the area; therefore, an extensive subsurface investigation has not been budgeted. The subsurface investigation will include the following;
  - Site One: Mallory Square – Two (2) borings to a depth of -110, with the ability to go to -200

- Site Two: Zero Duval – Two (2) borings to a depth of -45, one water side and one land side.
- Site Three: Ferry Terminal Extension - Two (2) borings two a depth of -60
- Site Four: Ferry Terminal Floating Docks – Four (4) borings two a depth of -60
- Site Five: Tarpon Pier - Two (2) borings two a depth of -60

Each boring/site report will include description of findings, soil classification, graphic logs of the borings and location plan, lab analysis, unconfined compressive strength, splitting tensile strength and other appropriate laboratory tests. ENGINEER'S geotechnical subconsultant shall provide a separate geotechnical features and subsurface conditions report for each site. ENGINEER will perform a review of each report for completeness.

- ENGINEER'S geotechnical subconsultant shall obtain required permits for their work in each area in order to perform the necessary task.
- An allowance of \$101,860 is included as part of this task to cover the cost of retaining a geotechnical engineer to complete the exploration program.

## **Assumptions**

The following assumptions were used in the development of this Task Order:

- This scope of work does not include engineering design or design recommendations for any of the project sites. It will be the responsibility of the individual design engineers to utilize the geotechnical features and subsurface conditions report to design proposed structures.
- The work on this project will be completed by April 2012.
- Archeological/historical surveys, water or sediment quality testing, circulation/flushing surveys or assessments, Sovereign Submerged Lands permitting/approval and mitigation planning and design are not included in this scope of work.
- Existing topographic survey and geotechnical information will be used as available. A \$101,860 allowance has been included for geotechnical investigations.
- No design documents will be prepared under this scope of work.
- Legal, easement, or plat survey or acquisitions will be the responsibility of CITY.
- The Geotechnical Subconsultant will pay for and submit for a Deminimus and a Consent of Use to FDEP. No other permitting is anticipated or included in the scope of work.
- Task Order is based on the work being completed for all five (5) sites consecutively. Additional costs may be required if the work items are separated.

## **Obligations of the CITY**

To assist meeting schedule and budget estimates contained in this proposal, the CITY will provide the following:

- Facilitate coordination with other design consultants.
- Provide any existing or conceptual design for the projects (including AutoCAD drawings) and any available surveyed limits or established coordinates of the existing uplands, marine structures, locations of wells, trenches, other existing drainage infrastructure and underground utilities.
- Any existing environmental and sediment testing data from the project area.
- Prompt review and comment on all deliverables.
- Facilitate access to any required facilities.
- Execution of the permit applications as Owner.
- CITY to provide existing topographic maps, data, or existing subsurface investigation information.

## **Additional Services**

The ENGINEER will, as directed, provide additional services that are related to the project but not included within this Scope of Services. These and other services can be provided, if desired by the CITY, as an amendment to the Task Order. Work will begin for the Additional Services after receipt of a written notice to proceed from the CITY. Additional services may include, but are not limited to, the following:

- Engineering design and/or design recommendations for proposed structures.
- Environmental studies, analyses or permit applications required by the permitting agencies.
- Design and/or construction phase services.

## **Compensation**

The estimated compensation for TASK ORDER NO 1-12 PORTS, is shown on Attachment A entitled Compensation.

## **Completion Dates**

The proposed completion dates for the tasks are as follows:

Obtain the Geotechnical services	30 days after notice to proceed
Submit Geotechnical reports	90 days after notice to proceed

**Attachment A**

TASK ORDER NO 1-12 PORTS

COMPENSATION

**TASK ORDER 1-12 PORTS  
ENGINEERING SERVICES FOR GEOTECHNICAL EXPLORATION AT MULTIPLE SITES IN KEY  
WEST**

<b>Task</b>	<b>Hours</b>	<b>Labor Cost</b>	<b>Expenses</b>	<b>Total Cost</b>
Task A - Design Services	67	\$9,350	\$101,960	\$111,310
<b>Total</b>	<b>67</b>	<b>\$9,350</b>	<b>\$101,960</b>	<b>\$111,310</b>

**COMPENSATION BREAKDOWN**

**Task Order 1-12 PORTS**

<b>TASK NO.</b>	<b>TASK DESCRIPTION</b>	<b>HOURLY RATE</b>	<b>TOTAL HOURS</b>	<b>LABOR</b>	<b>EXPENSES</b>	<b>TOTAL COST</b>
<b>A</b>	<b>Geotechnical Exploration (Site 1- T-Pier)</b>					
	Principal Project Manager	\$172.00	8	\$1,376		\$1,376
	Senior Project Manager	\$158.00	2	\$316		\$316
	Senior Professional	\$148.00	1	\$148		\$148
	Tech 4	\$ 93.00	3	\$279		\$279
	Clerical	\$ 55.00	2	\$110		\$110
	Geotech Subconsultant				\$29,271	\$29,271
	PRINTING/REPRO/SHIPPING/EQUIPMENT				\$20	\$20
	<b>Geotechnical Exploration SUBTOTAL</b>		<b>16</b>	<b>\$2,229</b>	<b>\$29,291</b>	<b>\$31,520</b>
<b>A</b>	<b>Geotechnical Exploration (Site 2 - Zero Duval)</b>					
	Principal Project Manager	\$172.00	7	\$1,204		\$1,204
	Senior Project Manager	\$158.00	1	\$158		\$158
	Senior Professional	\$148.00	0	\$0		\$0
	Tech 4	\$ 93.00	3	\$279		\$279
	Clerical	\$ 55.00	2	\$110		\$110
	Geotech Subconsultant				\$11,396	\$11,396
	PRINTING/REPRO/SHIPPING/EQUIPMENT				\$20	\$20
	<b>Geotechnical Exploration SUBTOTAL</b>		<b>13</b>	<b>\$1,751</b>	<b>\$11,416</b>	<b>\$13,167</b>
<b>A</b>	<b>Geotechnical Exploration (Site 3 - Ferry Terminal Dock Extension)</b>					
	Principal Project Manager	\$172.00	7	\$1,204		\$1,204
	Senior Project Manager	\$158.00	1	\$158		\$158
	Senior Professional	\$148.00	0	\$0		\$0
	Tech 4	\$ 93.00	3	\$279		\$279
	Clerical	\$ 55.00	1	\$55		\$55
	Geotech Subconsultant				\$16,181	\$16,181
	PRINTING/REPRO/SHIPPING/EQUIPMENT				\$20	\$20
	<b>Geotechnical Exploration SUBTOTAL</b>		<b>12</b>	<b>\$1,696</b>	<b>\$16,201</b>	<b>\$17,897</b>
<b>A</b>	<b>Geotechnical Exploration (Site 4 - Ferry Terminal Floating Dock)</b>					
	Principal Project Manager	\$172.00	8	\$1,376		\$1,376
	Senior Project Manager	\$158.00	1	\$158		\$158
	Senior Professional	\$148.00	1	\$148		\$148
	Tech 4	\$ 93.00	3	\$279		\$279
	Clerical	\$ 55.00	2	\$110		\$110
	Geotech Subconsultant				\$28,721	\$28,721
	PRINTING/REPRO/SHIPPING/EQUIPMENT				\$20	\$20
	<b>Geotechnical Exploration SUBTOTAL</b>		<b>15</b>	<b>\$2,071</b>	<b>\$28,741</b>	<b>\$30,812</b>

A Geotechnical Exploration (Site 5 - Tarpon Pier)					
Principal Project Manager	\$172.00	7	\$1,204		\$1,204
Senior Project Manager	\$158.00	1	\$158		\$158
Senior Professional	\$148.00	0	\$0		\$0
Tech 4	\$ 93.00	2	\$186		\$186
Clerical	\$ 55.00	1	\$55		\$55
Geotech Subconsultant				\$16,291	\$16,291
PRINTING/REPRO/SHIPPING/EQUIPMENT				\$20	\$20
<b>Geotechnical Exploration SUBTOTAL</b>		11	\$1,603	\$16,311	\$17,914
PROJECT TOTALS					
TOTAL HOURS		67			
TOTAL FEE ESTIMATE			\$9,350	\$101,960	\$111,310