TASK ORDER PURSUANT TO
THE MASTER AGREEMENT TO FURNISH
GENERAL ENGINEERING AND UTILITY ENGINEERING SERVICES
BETWEEN THE CITY OF KEY WEST AND CHEN AND ASSOCIATES
CONSULTING ENGINEERS, INC. (C&A)

DATE: **December 19, 2013**

TASK ORDER NO. **16**

PROJECT NO. **107.017 (Chen Moore and Associates)**

TITLE: **KEY WEST BIGHT HISTORIC PORT SEAWALL ASSESSMENT**

A. PROJECT TASKS

This task order includes a visual structural assessment of the existing Key West Bight Seawall. We estimate approximately 1,965 linear feet of seawall, excluding the dockmaster area. The fundamental purpose of this survey is to provide the information necessary to assess the condition (location, magnitude, type, and rate of deterioration) of the seawall, above and below the waterline. It is our understanding the seawall consists of concrete with some newer portions using steel sheet piles. We will use a visual observation method and photographs to document the existing conditions. Approximate locations and size of deteriorations (cracks, holes, undermining) will be noted using GPS and ruler. Vertical location of deteriorations will be measured from the top of existing wall. Once completed, the assessment will provide an overall depiction of the deterioration of the seawall. We will provide a condition assessment report that includes sketches indicating areas of deterioration.

The following tasks describe the specific activities to be performed and the work products to be prepared by the ENGINEER under this task order.

Task 1 – Seawall and Wood Piles Field Assessment

ENGINEER will use a visual observation method and visual aids to document the existing conditions of the seawall, above and below waterline. Approximate locations and magnitude of deteriorations (e.g. cracks, holes, and undermining) will be recorded. Vertical location of deteriorations will be measured from the top of existing wall. Once completed, the assessment will provide an overall depiction of the deterioration of the seawall. The survey will use Non Destructive Testing (NDT) techniques.

Wood piling will be assessed from the dock and deterioration at the tidal range of the piling will be documented.

Task 2 – Seawall Condition Assessment Report

ENGINEER shall provide a condition assessment report of existing seawall conditions and assessment based on site observations and review of available documents, reports and drawings. Report will include visual exhibits (e.g. photographs, maps, etc.) indicating areas of deterioration, suggested repairs, and estimate of probable cost.

Task 3 – Reimbursables

ENGINEER will be reimbursed in accordance to *Article 2* in the Master Service Agreement. The CITY shall pay for reimbursable expenses invoiced at the actual cost of expenditures incurred by the ENGINEER. Direct expenses are those necessary costs and charges incurred for the PROJECT including courier charges, field equipment incurred directly for the PROJECT, printing and reproduction, the costs of travel, subsistence, lodging and related expenses of personnel while traveling in connection with the PROJECT in accordance with CITY policy and Florida Statute FS 112.061.

B. BASIS OF SCOPE

The following items are excluded from this Task Authorization:

1) Regularly scheduled meetings and more than one (1) design and coordination meeting.
2) Structural repair drawings.
3) Materials testing.
4) Permitting.
5) Geotechnical investigations, wind studies, vibration studies, or testing.
6) Survey of piers, and pilling, (e.g. open piers, closed piers, floating piers, etc.).

C. SCHEDULE

Task 1 should take five days, weather permitting, to complete, and three weeks to complete Task 2.

D. COMPENSATION

Compensation for the above scope of services is a lump sum amount as follows:

FEE SUMMARY	
TASK	**LUMP SUM FEE**
Task 1 – Seawall Field Assessment	**$9,405**
Task 2 – Condition Assessment Report	**$7,670**
Task 3 – Reimbursables	**$2,850**
TOTAL FEE	**$19,925**

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