

**EXPLANATION OF CONSENT AGENDA ITEM E.2.c.(5) – August 24, 2016**

**ITEM:**

Consideration of approving a purchase order to CH2M under their general engineering services contract for design and engineering services related to the repair and replacement of fenders and bollards at NCP 1 & 2, SCP 3, CT 2 and berths throughout the port and the repair of the concrete deck and curbing at NCP 1 in an amount not to exceed \$98,942. (Hammond/Crowe)

**EXPLANATION:**

Proper fender and bollard systems are required in order to allow for safe and efficient cruise and cargo operations. The current port wide fender and bollard system has been designed and constructed over the years to accommodate a wide variety of cruise and cargo vessel sizes. Most of these fenders and bollards have been in use for over 20 years and are showing signs of major wear. The concrete deck at North Cargo Pier 1 is also showing signs of concrete damage due to a heavy level of cargo operations throughout its life.

This proposal is for the design, engineering and construction support for the replacement of the fenders and bollards at NCP 1 & 2, SCP 3 and CT 2 as well as the repair of the concrete deck at North Cargo Pier 1 and water side concrete curbing. These repairs and replacements are required in order to maintain a safe working environment for both CPA employees and our tenants.

**Funding Review by Finance (Pat Poston):** The total NTE amount of \$195,980 is included in the FY16 Capital Budget and no increase is required. [Budget item 2221 - Improved Fender System]

**Staff Recommends Approval**

**Prepared by Patrick Hammond/Bill Crowe**

*PK*





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July 29, 2016

CH2M HILL

\$98,942.00

Canaveral Port Authority  
445 Challenger Road, Suite 301  
Cape Canaveral, FL 32920

Attn: Mr. Bill Crowe, P.E.  
Senior Director, Facilities, Construction & Engineering

Re: Proposal for Engineering Order Number CPA 2016-08: Fender and Bollard Maintenance

Within the scope of our June 18, 2014 General Engineering Professional Services Contract, CH2M HILL Engineers, Inc. is pleased to submit the following proposal for professional services in connection with Fender and Bollard Maintenance. Below is an in-depth description of our scope of services.

## Scope of Services

### Engineering Services

Prepare bid/procurement documents for the repair/replacement/refurbishment of the fenders and bollards as outlined below:

- Prepare plans and specifications for the replacement of the fenders and mooring fixtures at NCP 1 and 2, repair of damaged curbs, and the repair of approximately 18,600 SF of concrete pier deck. Mooring fixtures replacement will be the removal of the 50 ton double bits on the pier face and the installation of 125 metric ton T-head bollards. Deck repair will consist of using hydro-demolition to remove the top 4 inches of concrete and placing new concrete topping.
- Prepare plans and specifications for the replacement of seven fenders at CT2.
- Update the preliminary opinion of probable cost.
- Assist CPA staff with requests for information during pricing by the contractor.
- Provide limited construction administration services - shop drawing and submittal review, clarifications to the plans and specifications, and observations of the construction.

### Project Schedule

The project will begin upon notice to proceed from the CPA. Notice to proceed will be construed as a signed work order as well as the issuance of a purchase order. It is anticipated that preparation of plans and specifications work within this scope of services will be completed within sixty (60) days. If there are protracted delays for reasons beyond our control, we would expect to negotiate with you and equitable adjustment of our not-to-exceed budgets and schedule taking into consideration the impact of such delay.

## Price

CH2M shall be paid on a cost basis in accordance with the General Contract dated June 18, 2014, and the Rate Table dated January 20, 2016, in the amount of \$98,942.00.

## Opinions of Cost

In providing opinions of cost for the project, Consultant has no control over cost or price of labor and materials; unknown or latent conditions of existing equipment or structures that may affect operation or maintenance costs; competitive bidding procedures and market conditions; time or quality of performance by operating personnel or third parties; and other economic and operation factors that may materially affect the ultimate project costs. Therefore, Consultant makes no warranty that the Port's actual project costs will not vary from Consultant's opinions or estimates. If the Port wishes greater assurance as to any element of project cost, the Port will employ an independent cost estimator, contractor, or other appropriate advisor.

## Services During Construction

The presence or duties of ENGINEER's personnel at a construction site, whether as onsite representatives or otherwise, do not make ENGINEER or ENGINEER's personnel in any way responsible for those duties that belong to OWNER and/or the construction contractors or other entities, and do not relieve the construction contractors or any other entity of their obligations, duties, and responsibilities, including, but not limited to, all construction methods, means, techniques, sequences, and procedures necessary for coordinating and completing all portions of the construction work in accordance with the construction Contract Documents and any health or safety precautions required by such construction work.

ENGINEER and ENGINEER's personnel have no authority to exercise any control over any construction contractor or other entity or their employees in connection with their work or any health or safety precautions and have no duty for inspecting, noting, observing, correcting, or reporting on health or safety deficiencies of the construction contractor(s) or other entity or any other persons at the site except ENGINEER's own personnel.

The presence of ENGINEER's personnel at a construction site is for the purpose of providing to OWNER a greater degree of confidence that the completed construction work will conform generally to the construction documents and that the integrity of the design concept as reflected in the construction documents has been implemented and preserved by the construction contractor(s). ENGINEER neither guarantees the performance of the construction contractor(s) nor assumes responsibility for construction contractor's failure to perform work in accordance with the construction documents.

## Acceptance of Proposal

Acceptance of this proposal may be indicated by the signature of a duly authorized official of the Port in the space provided below. One signed copy of this proposal returned to the Consultant will serve as an Agreement between the two parties and as Notice to

Proceed. Should this proposal not be accepted within a period of thirty (30) days from the above date, it shall become null and void.

Max Mozo, P.E.  
Geographic Operations Manager  
CH2M HILL ENGINEERS, Inc.

Accepted By:  
CANAVERAL PORT AUTHORITY

\_\_\_\_\_  
Bill Crowe, P.E.  
Senior Director, Facilities, Construction and  
Engineering  
Canaveral Port Authority

\_\_\_\_\_  
Date

Approved at CPA Commission Meeting on \_\_\_\_\_

HOURS BUDGET WORKSHEET

CPA 2016-08

NCP 1 & 2 Fenders & Bollards  
7/29/2016

TITLE:

Proposal Type: T&M, NTE

Tasks	Principal		Gary		Tomaz		PA		CADD		Denise		TOTAL
	Proj Dir	Sr Prof 2	Sr Prof 1	Sr. PM	PM/Prof	Staff Prof	Tech Staff						
1 Project Admin & Management, QA	8		8	8	16						16		
2 Field survey existing conditions	12			12		12							
3 Bollard anchor bolt design	16			40									
4 Prepare pricing documents	16			40		120					16		
5 Update cost estimate	4			16									
6 Assist CPA staff with pricing	16			16							8		
7 Shop drawing and submittal review	16			32							8		
8 Site visits and bi-weekly construction meetings	60			60							8		
9 As-built review and project closeout	4			8		4					4		
TOTAL MH	0	152	8	232	16	136	60				60	604	
HOURLY RATE	\$ 265	\$ 257	\$ 205	\$ 160	\$ 140	\$ 113	\$ 59.50						
LABOR TOTAL	\$ -	\$ 39,064	\$ -	\$ 37,120	\$ 2,240	\$ 15,300	\$ 3,570				\$	\$ 98,942	
Expenses												\$ -	
Expenses:													
Total Not to Exceed Budget													
\$ 98,942													

Estimated Construction Cost \$ 2,067,131  
Work Order Services as a percent of Project Cost 4.8%