

# Memorandum



**Date:** September 26, 2013  
**To:** Jack Osterholt, Deputy Mayor/Director  
Regulatory and Economic Resources Department  
**From:** Bill Johnson, Director  
PortMiami  
**Subject:** Recommendation for Construction Contract Services for Area 2 (Bays 177-183)  
Construction of Seawall – Project No. 2009-043

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Your assistance in reviewing this request and forwarding the attached recommendation to the Division of Small Business Development (SBD) for consideration is respectfully requested.

It is recommended that SBD review the attached request for Community Small Business Enterprise (CSBE) and Community Workforce Program (CWP) measures for this project, in order to proceed with the advertisement and subsequent bidding of the project.

**Area 2 (Bays 177-183) Construction of Seawall:** This project is for the construction of approximately 625 linear feet of new bulkhead wall connecting two existing sections of bulkhead. The work to be performed includes furnishing and installing steel bulkhead wall with concrete cap; site civil; excavation and back fill; dredging; drainage; asphalt paving; water services; furnishing and installing fenders and mooring bollards; and providing environmental turbidity barriers. The construction cost estimate for this project is \$9,570,606.20 which includes 10% contingency.

The CSBE goal recommendation is 7.96% and the CWP recommendation is 10%.

Should you have any questions, please feel free to contact Juan Kuryla, Seaport Director Designee at (305) 347-4910.

Attachments



**AREA 2 (BAYS 177-183) CONSTRUCTION OF SEAWALL**  
**Miami-Dade County Seaport Department**  
**Miami, Florida**



**CSBE GOAL RECOMMENDATION**

Trades:	Amount	CSBE Analysis
<b>General Conditions</b>		
Mobilization & Demobilization	\$244,750.88	
General Conditions	\$322,500.00	
Survey Layout	\$19,050.00	
Environmental Protection & Turbidity Barrier	\$44,660.64	
Special Inspection & Testing	\$15,240.00	
Demolition and Removal Rip Rap & Monopile & Vege	\$300,390.00	
Coral Colony Relocation	\$41,674.96	
Manatee Watch Personnel	\$24,341.54	
Payment & Performance Bond	\$104,407.30	
Temporary Link Fence	\$16,554.60	\$16,554.60
<b>Subtotal General Conditions</b>	<b>\$1,133,569.92</b>	<b>\$16,554.60</b>
<b>Bulkhead</b>		
Sheet Piling & Anchor Wall	\$3,303,878.08	
Bulkhead Concrete Cap	\$646,257.92	
Backfill behind Sheet Pile Wall	\$383,773.80	
<b>Subtotal Bulkhead</b>	<b>\$4,333,909.80</b>	
<b>Dredging</b>		
Dredging to (-34 ft) front of Seawall incl. 5% add	\$543,660.00	
Overdredge Payable from (-34 ft to -35 ft)	\$95,775.00	
***Disposal Contaminated Dredge Spoils Add Costs	\$1,488,368.00	
<b>Subtotal Dredging</b>	<b>\$2,127,803.00</b>	
<b>Bollards</b>		
Mooring Bollards 100 Ton Double Bitt	\$70,308.00	
<b>Subtotal Bollards</b>	<b>\$70,308.00</b>	
<b>Fenders</b>		
Marine Fender System 4ft x 8 ft Foam Filled	\$156,182.88	
<b>Subtotal Fenders</b>	<b>\$156,182.88</b>	
<b>Total Marine Work</b>	<b>\$7,821,773.60</b>	
<b>Utilities and Upland Works</b>		
Water Station Enclosure	\$40,088.82	\$40,088.82
Above Ground Potable Water Station	\$115,201.70	\$115,201.70
Catch Basing	\$29,215.08	\$29,215.08
Extend Existing Outfall	\$32,574.60	\$32,574.60
Manatee Grate over Outfall #7 Pipe	\$12,777.07	\$12,777.07
Removable Pipe Curb	\$49,530.00	\$49,530.00
Fire Hydrants	\$12,560.54	\$12,560.54
Sub Base 20" Thick	\$82,308.00	\$82,308.00
Asphalt Paving	\$257,013.00	\$257,013.00
Milling 2" Thick	\$1,905.00	\$1,905.00
Painted Pavement Markings	\$1,865.63	\$1,865.63
Storm Utility Drainage	\$40,640.00	\$40,640.00
<b>Subtotal Utilities and Upland Works</b>	<b>\$675,679.44</b>	<b>\$675,679.44</b>
Reinforce Concrete Retaining Wall	\$203,098.05	
<b>Subtotal Reinforce Concrete Retaining Wall</b>	<b>\$203,098.05</b>	
<b>Base Bid Total</b>	<b>\$8,700,551.09</b>	
<b>Contingency (10%)</b>	<b>\$870,055.11</b>	
<b>Subtotal</b>	<b>\$9,570,606.20</b>	
<b>Permit Allowance (3%)</b>	<b>\$261,016.53</b>	
<b>Grand Total</b>	<b>\$9,831,622.73</b>	
<b>Base Bid Opportunity</b>	<b>\$692,234.14</b>	
<b>Contingency (10%)</b>	<b>\$69,223.41</b>	
<b>Opportunity Total</b>	<b>\$761,457.55</b>	
<b>CSBE Goal</b>	<b>7.96%</b>	

AREA 2 (BAY 177-183) CONSTRUCTION OF SEAWALL  
 Miami-Dade County Seaport Department  
 Miami, Florida

PORTMIAMI

**MANHOURS BY TRADES**

Trade Skills	Total man hours	Estimated Total Man Days	Estimated # of Workforce per Trade	Estimated Total Working Days to Complete
General Conditions	2,639	330	8	41
Bulkhead	11,386	1,423	13	109
Dredging	2,119	265	5	53
Bollards	198	25	5	5
Fenders	551	69	5	14
Utilities & Upland Works	1,966	246	8	31

## **AREA 2 (BAY 177 – 183) CONSTRUCTION OF SEAWALL - QUALITIFACTIONS**

### **SECTION 05 05 23 - WELDING**

#### **QUALIFICATIONS**

- A. WPSs: In accordance with AWS D1.1/D1.1M (Annex E Forms).
  - B. WPQs: In accordance with AWS D1.1/D1.1M (Annex E Forms).
  - C. CWI: Certified in accordance with AWS QC1, and having prior experience with the welding codes specified. Alternate welding inspector qualifications require approval by the Engineer.
  - D. Testing Agency: Personnel performing tests shall be NDT Level II certified in accordance with ASNT SNT-TC-1A.
  - E. Special Inspector: A Florida licensed professional engineer, experienced with the design, construction, inspection, and testing of high-strength bolted and welded connections, in accordance with ICC-Florida Building Code, Building, Section 2218.2.
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### **SECTION 31 41 16 - SHEET PILING**

#### **QUALIFICATIONS**

- A. Piling Installer: Minimum of 5 years of past successful experience on ten projects of steel sheet pile installation, of similar size and conditions.
  - B. Special Inspector: A Florida licensed professional geotechnical engineer, experienced with the design, construction, and inspection of steel sheet piling bulkheads and tie-back systems, in accordance with ICC - Florida Building Code, Building, Section 1822.1.20 and Section 2218.2.
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### **SECTION 33 41 20 - GRAVITY STORM DRAINAGE WELLS – STEEL CASING**

#### **WORK INCLUDED**

- A. The Work described in these Specifications is for the drilling and construction of 24 inch diameter drainage wells. All work described shall be performed by a driller licensed in the State of Florida, under Florida Department of Environmental Protection (FDEP) requirements. The drainage wells shall meet FDEP Class V, Group 6 Standards as

provided in the Florida Administrative Codes (FAC), Chapters 62-528 and 62-532. Work shall be performed by the Drilling Contractor only upon authorization of the ENGINEER and OWNER.

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## **SECTION 03 30 00 - CAST-IN-PLACE CONCRETE**

### QUALITY ASSURANCE

- A. Qualifications:
    - A. Mix Designer: Licensed professional engineer registered in the State of Florida or Florida DOT approved mix designer.
    - B. Batch Plant: Currently certified by the National Ready Mixed Concrete Association.
    - C. Maintain in the field office, as a minimum, a copy of ACI 301 and AASHTO T 277 – Test for Density, Relative Density (Specific Gravity).
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## **SECTION 32 12 16 - ASPHALT PAVING**

### QUALITY ASSURANCE

- A. Qualifications:
    - A. Independent Testing Laboratory: per Owner's requirements.
    - B. Asphalt concrete mix formula shall be prepared by approved certified independent laboratory under the supervision of a certified asphalt technician.
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## **SECTION 03 62 00 - NONSHRINK GROUTING**

### QUALIFICATIONS

- A. Nonshrink Grout Manufacturer's Representative: Authorized and trained representative of grout manufacturer. Minimum of 1-year experience that has resulted in successful installation of grouts similar to those for this Project.
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## **SECTION 05 05 23 - WELDING**

### QUALIFICATIONS

- A. WPSs: In accordance with AWS D1.1/D1.1M (Annex E Forms).
- B. WPQs: In accordance with AWS D1.1/D1.1M (Annex E Forms).

- C. CWI: Certified in accordance with AWS QC1, and having prior experience with the welding codes specified. Alternate welding inspector qualifications require approval by the Engineer.
  - D. Testing Agency: Personnel performing tests shall be NDT Level II certified in accordance with ASNT SNT-TC-1A.
  - E. Special Inspector: A Florida licensed professional engineer, experienced with the design, construction, inspection, and testing of high-strength bolted and welded connections, in accordance with ICC-Florida Building Code, Building, Section 2218.2.
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### **SECTION 03 01 32**

#### **REPAIR OF VERTICAL AND OVERHEAD CONCRETE SURFACES**

##### QUALITY ASSURANCE

- A. Mortar System Applicator:
  - B. Experienced applicator endorsed by mortar system manufacturer.
  - C. Mortar System Manufacturer's Representative.
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### **SECTION 03 01 33**

#### **REPAIR OF HORIZONTAL CONCRETE SURFACES**

##### QUALIFICATIONS

- A. Independent Testing Laboratory: Meet criteria stated in ASTM E699.
  - B. Mortar System Applicator: Trained and approved by mortar system manufacturer.
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### **SECTION 03 01 34**

#### **CRACK REPAIR EPOXY INJECTION GROUTING**

##### QUALITY ASSURANCE

- A. Qualifications for Epoxy Injection Staff:
- B. Manufacturer's Site Representative:
  - 1. Capable of instructing successful methods for restoring concrete structures utilizing epoxy injection process.
  - 2. Understands and is capable of explaining technical aspects of correct material selection and use.

3. Experienced in the operation, maintenance, and troubleshooting of application equipment.
- C. Injection crew and job foreman shall provide written and verifiable evidence showing compliance with the following requirements:
1. Licensed and certified by epoxy manufacturer.
  2. Minimum 3 years' experience in successful epoxy injection for at least 10,000 linear feet of successful crack injection including 2,000 linear feet of wet crack injection to stop water leakage.
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**SECTION 03 10 00  
CONCRETE FORMING AND ACCESSORIES**

**QUALIFICATIONS**

- A. Formwork Designer: Formwork, falsework, and shoring design shall be by a structural engineer licensed by the State of Florida.
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**SECTION 03 15 00 - CONCRETE JOINTS AND ACCESSORIES**

**QUALITY ASSURANCE**

- A. Qualifications: Waterstop manufacturer shall demonstrate 5 years, minimum, continuous successful experience in the production, installation, and execution of PVC waterstops.
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**SECTION 05 50 00 - METAL FABRICATIONS**

**QUALIFICATIONS**

- A. Adhesive Anchor Installers: Trained and certified by manufacturer.
- B. Galvanized Coating Applicator: Company specializing in hot-dip galvanizing after fabrication and following procedures of Quality Assurance Manual of the American Galvanizers Association.
- C. Welders, Welding Operators, Welding Inspectors, and Welding Procedures: Refer to Section 05 05 23, Welding.
- D. Special Inspector: A Florida licensed professional engineer, experienced with the design, construction, inspection, and testing of high-strength bolted and welded connections, in accordance with ICC-Florida Building Code, Building, Section 2218.2 and Section 1822.1.20.
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## **SECTION 07 92 00 - JOINT SEALANTS**

### **QUALITY ASSURANCE**

- A. **Applicator Qualifications:** Minimum of 5 years' experience installing sealants in projects of similar scope.

**Walters, Vivian (RER)**

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**From:** Johnson, Laurie (RER)  
**Sent:** Thursday, September 26, 2013 10:04 AM  
**To:** Walters, Vivian (RER); Duncombe, Kelly (RER)  
**Subject:** FW: Signed Memo - Project No. 2009-043 - Area 2 (Bays 177-183) Construction of Seawall  
**Attachments:** 2013 09 26\_SBD Memo\_2009-043.pdf

*Laurie Johnson, RER Supervisor  
Business Affairs Division / Small Business Development  
Regulatory and Economic Resources Department*

*111 NW 1st Street #19 Floor  
Miami, FL 33128  
Phone No. 305-375-3121  
Fax No. 305-375-3160  
[laurie@miamidade.gov](mailto:laurie@miamidade.gov)*

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**From:** Ramirez, Frank (Seaport)  
**Sent:** Thursday, September 26, 2013 9:57 AM  
**To:** Johnson, Laurie (RER)  
**Cc:** Pino, Gyselle (Seaport); Smith, Leticia (Seaport); Ramirez, Frank (Seaport); Simon, Nancy (Seaport); Nunez, Isa (Seaport); Tillberg, Art (Seaport); Cordero, Olga (Seaport)  
**Subject:** Signed Memo - Project No. 2009-043 - Area 2 (Bays 177-183) Construction of Seawall

Good morning Laurie,  
Attached please find the memo signed by Juan Kuryla, Port Director Designee. The original will be sent to you today via interoffice mail. Let us know if you have any questions.

Thank you for all your assistance.  
Frank Ramirez

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**From:** Johnson, Laurie (RER)  
**Sent:** Wednesday, September 25, 2013 12:22 PM  
**To:** Ramirez, Frank (Seaport)  
**Subject:** RE: Request for Review for CSBE Goal - Project No. 2009-043 - Area 2 (Bays 177-183) Construction of Seawall

Frank is the signed memo forthcoming. The CM is completing her review with signed memo in-house the project review process for the application of measures will be completed together.

*Laurie Johnson, RER Supervisor  
Business Affairs Division / Small Business Development  
Regulatory and Economic Resources Department*

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**From:** Ramirez, Frank (Seaport)  
**Sent:** Tuesday, September 24, 2013 12:37 PM  
**To:** Johnson, Laurie (RER)  
**Cc:** Duncombe, Kelly (RER); Pino, Gyselle (Seaport); Smith, Leticia (Seaport); Simon, Nancy (Seaport); Tillberg, Art (Seaport); Nunez, Isa (Seaport); Ramirez, Frank (Seaport)  
**Subject:** RE: Request for Review for CSBE Goal - Project No. 2009-043 - Area 2 (Bays 177-183) Construction of Seawall

Attached are the Docs in Word and Excel formats in case you need them.

Regards,  
Frank

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**From:** Ramirez, Frank (Seaport)  
**Sent:** Tuesday, September 24, 2013 12:35 PM  
**To:** Johnson, Laurie (RER)  
**Cc:** Duncombe, Kelly (RER); Pino, Gyselle (Seaport); Smith, Leticia (Seaport); Simon, Nancy (Seaport); Ramirez, Frank (Seaport); Tillberg, Art (Seaport); Nunez, Isa (Seaport)  
**Subject:** Request for Review for CSBE Goal - Project No. 2009-043 - Area 2 (Bays 177-183) Construction of Seawall

Good afternoon Laurie,

As a follow-up to our conversation, attached for your review is the package to Small Business Development which contains:

- Memo (with scope of work)
- Cost Estimate with CSBE Goal Recommendations
- Dept. Input Recommendation Form for the subject project.

The Workforce analysis will be forthcoming.

If you have any questions or comments, please contact us. Your assistance in this matter is greatly appreciated.

Regards,  
**Frank Ramirez**  
Program Management Consultant  
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