



# MANATEE COUNTY FLORIDA

## FACSIMILE

October 29, 2009

TO: All Interested Bidders

SUBJECT: Invitation for Bid #09-3145DC  
Highland Shores Boat Ramp Improvements

### ADDENDUM #1

Bidders are hereby notified that this Addendum shall be acknowledged on the Bid Form and made a part of the above named bidding and contract documents. The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

1. Engineer's Opinion of Probable Construction Costs (\$371,821.50) is attached.
2. Geotechnical Engineering Services Report is attached.
3. Project warranty for this project is one-year from time of final completion and acceptance by the County (reference Bid Article C.07, page 00030-2 and Article 9.1, page 00700-13).
4. Bid Article 13 – Apprentices (page 00700-19) is not required and deleted in its entirety.
5. There are no requirements for a temporary job site office. The contractor is required to properly secure all material and equipment stored on the project site.

Financial Management Department - Purchasing Division  
1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205  
PHONE: 941.749.3074 \* FAX: 941.749.3034  
[www.mymanatee.org](http://www.mymanatee.org)

6. The County will not consider an alternate design for the boat ramp during the bidding process. Bidder shall bid the project as specified in the Bid Document. The successful bidder will be able to offer a substitute in accordance with Bid Article 4.11, page 00700-9. Selection of an alternate design will be the sole discretion of the County.
7. The contractor shall be responsible for all required testing for this project. The following testing are anticipated:
  1. Turbidity monitoring tests
  2. Base compaction test (parking area, boat ramp)
  3. Concrete slump tests
8. All dredged material shall become the property of the contractor and shall be disposed of properly off-site by the contractor.
9. The contractor shall be responsible for maintenance of the site (existing or improved) during the entire construction period. This will include watering and mowing of any existing or installed sod, maintenance of existing or installed vegetation, and other maintenance as normal and customary.
10. The FDEP exemptions (three permits) for this project are included in the Bid Document. Manatee County has obtained the Final Site Plan approval. The contractor shall be responsible for obtaining all other permits, if required, for the proposed construction, i.e., Building Permit for construction of docks, FDOT haul permit for transportation of sediments to/from the site, Manatee County right-of-way use permit, health department permit, NPDES permit, etc. The permit fees will not be waived for this project and shall be the responsibility of the contractor. Costs for any required permits and associated fees shall be included in the Bid Form Item for Mobilization.

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 until **November 10, 2009 at 3:00 P.M.**

Sincerely,



Deborah Carey-Reed  
Construction Buyer

/dcr  
Attachments

**Highland Shores Boat Ramp Improvements**  
**Manatee County, Florida**  
**Engineer's Opinion of Probable Construction Costs**

| Item No. | Description  | Unit | QTY   | Unit Price  | Amount       |
|----------|--|------|-------|-------------|--------------|
| 1        | Mobilization   | LS   | 1     | \$10,000.00 | \$3,000.00   |
| 2        | Construction Surveying and Monumentation                             | LS   | 1     | \$5,000.00  | \$3,000.00   |
| 3        | Record Drawings  | LS   | 1     | \$3,000.00  | \$3,000.00   |
| 4        | Maintenance of Traffic   | LS   | 1     | \$2,500.00  | \$2,500.00   |
| 5        | Erosion and Sedimentation Control                                    | LS   | 1     | \$5,000.00  | \$5,000.00   |
| 6        | Manatee Safety Measures  | LS   | 1     | \$4,000.00  | \$4,000.00   |
| 7        | Floating Turbidity Barrier   | LF   | 175   | \$12.00     | \$2,100.00   |
| 8        | Clearing and Grubbing  | LS   | 1     | \$2,500.00  | \$2,500.00   |
| 9        | Excavation   | CY   | 50    | \$7.25      | \$362.50     |
| 10       | Embankment   | CY   | 26    | \$700.00    | \$18,200.00  |
| 11       | Shell Base, 6"   | SY   | 1,755 | \$12.00     | \$21,060.00  |
| 12       | Stabilized subbase, 6"   | SY   | 1,800 | \$4.00      | \$7,200.00   |
| 13       | Concrete Driveway, 6"  | SY   | 81    | \$45.00     | \$3,645.00   |
| 14       | Concrete Sidewalk, 6"  | SY   | 25    | \$45.00     | \$1,125.00   |
| 15       | 3'x6'x6" Concrete Slab, Trash Can Enclosure                          | LS   | 1     | \$550.00    | \$550.00     |
| 16       | Filter Fabric  | SY   | 110   | \$3.00      | \$330.00     |
| 17       | 8" Gravel Base (No.57 Stone)   | SF   | 650   | \$14.00     | \$9,100.00   |
| 18       | 8" Reinforced Concrete Boat Ramp slab, including "V" Grooved surface | CY   | 25    | \$500.00    | \$12,500.00  |
| 19       | Gabion Mattress (6'x16'x12")   | CY   | 4     | \$200.00    | \$712.00     |
| 20       | Rubble Rip Rap   | TN   | 23    | \$84.00     | \$1,932.00   |
| 21       | Temporary Cofferdam, Sheet Pile ( Install and Remove)                | SF   | 840   | \$25.00     | \$21,000.00  |
| 22       | Remove existing corner sheet piling                                  | EA   | 2     | \$2,000.00  | \$4,000.00   |
| 23       | Concrete Removal   | CY   | 25    | \$225.00    | \$5,625.00   |
| 24       | New seawall behind existing wall                                     | LF   | 210   | \$560.00    | \$117,600.00 |
| 25       | Remove existing sheet piling to slab subgrade                        | SF   | 166   | \$25.00     | \$4,150.00   |
| 26       | Dewatering   | LS   | 1     | \$10,000.00 | \$10,000.00  |
| 27       | 12"x12" Concrete Piling  | LF   | 520   | \$68.00     | \$35,360.00  |

By: Dated: 7/20/09

Revised: 9/10/09

Chkd: \_\_\_\_\_ Dated \_\_\_\_\_

**Highland Shores Boat Ramp Improvements**  
**Manatee County, Florida**  
**Engineer's Opinion of Probable Construction Costs**

| Item No.                 | Description                        | Unit | QTY   | Unit Price  | Amount       |
|--------------------------|------------------------------------|------|-------|-------------|--------------|
| 28a                      | Deck Top (Wooden)                  | LS   | 1     | \$3,000.00  | \$3,000.00   |
| 28b                      | Structural Framing (Wooden)        | LS   | 1     | \$7,000.00  | \$7,000.00   |
| 29a                      | Safety Railing (Wooden)            | LS   | 1     | \$390.00    | \$390.00     |
| 30                       | 10" Wooden Bollards                | EA   | 83    | \$25.00     | \$2,075.00   |
| 31                       | Concrete Wheel Stops               | EA   | 15    | \$12.00     | \$180.00     |
| 32                       | Signage                            | LS   | 1     | \$250.00    | \$250.00     |
| 33                       | Landscaping                        | LS   | 1     | \$15,000.00 | \$15,000.00  |
| 34                       | Irrigation System                  | LS   | 1     | \$5,000.00  | \$5,000.00   |
| 35                       | Dredging                           | CY   | 375   | \$25.00     | \$9,375.00   |
| 36                       | Berm (Temporary Spoil Containment) | CY   | 600   | \$25.00     | \$15,000.00  |
| 37                       | Spoil Transport to Disposal Site   | CY   | 1,000 | \$15.00     | \$15,000.00  |
| SUBTOTAL BASE PRICE      |                                    |      |       |             | \$371,821.50 |
| Plus                     | 10% Contingency                    |      |       |             | \$37,182.15  |
| TOTAL CONSTRUCTION PRICE |                                    |      |       |             | \$409,003.65 |

←  
12/14

| ALTERNATE | Description               | Unit | QTY | Unit Price | Amount     |
|-----------|---------------------------|------|-----|------------|------------|
| 28a       | Deck Top ( Ipe 5/4" x 6") | LS   | 1   | \$2,500.00 | \$2,500.00 |
| 29a       | Safety Railing (Ipe)      | LS   | 1   | \$300.00   | \$300.00   |

By: Dated: 7/20/09  
 Revised: 9/10/09  
 Chkd: \_\_\_\_\_ Dated \_\_\_\_\_

## Highland Shores Boat Ramp Improvements

Manatee County, Florida

Bid Form

| Item No. | Description  | Unit | QTY   | Unit Price | Amount |
|----------|--|------|-------|------------|--------|
| 1        | Mobilization   | LS   | 1     |            |        |
| 2        | Construction Surveying and Monumentation                             | LS   | 1     |            |        |
| 3        | Record Drawings  | LS   | 1     |            |        |
| 4        | Maintenance of Traffic   | LS   | 1     |            |        |
| 5        | Erosion and Sedimentation Control                                    | LS   | 1     |            |        |
| 6        | Manatee Safety Measures  | LS   | 1     |            |        |
| 7        | Floating Turbidity Barrier   | LF   | 175   |            |        |
| 8        | Clearing and Grubbing  | LS   | 1     |            |        |
| 9        | Excavation   | CY   | 50    |            |        |
| 10       | Embankment   | CY   | 26    |            |        |
| 11       | Shell Base, 6"   | SY   | 1,755 |            |        |
| 12       | Stabilized subbase, 6"   | SY   | 1,800 |            |        |
| 13       | Concrete Driveway, 6"  | SY   | 81    |            |        |
| 14       | Concrete Sidewalk, 6"  | SY   | 25    |            |        |
| 15       | 3'x6'x6" Concrete Slab, Trash Can Enclosure                          | LS   | 1     |            |        |
| 16       | Filter Fabric  | SY   | 110   |            |        |
| 17       | 8" Gravel Base (No.57 Stone)   | SF   | 650   |            |        |
| 18       | 8" Reinforced Concrete Boat Ramp slab, including "V" Grooved surface | CY   | 25    |            |        |
| 19       | Gabion Mattress (6'x16'x12")   | CY   | 4     |            |        |
| 20       | Rubble Rip Rap   | TN   | 23    |            |        |
| 21       | Temporary Cofferdam, Sheet Pile ( Install and Remove)                | SF   | 840   |            |        |
| 22       | Remove existing corner sheet piling                                  | EA   | 2     |            |        |
| 23       | Concrete Removal   | CY   | 25    |            |        |
| 24       | New seawall behind existing wall                                     | LF   | 210   |            |        |
| 25       | Remove existing sheet piling to slab subgrade                        | SF   | 166   |            |        |
| 26       | Dewatering   | LS   | 1     |            |        |
| 27       | 12"x12" Concrete Piling  | LF   | 520   |            |        |

By: Dated: 7/20/09

Revised: 9/10/09

Chkd: \_\_\_\_\_ Dated \_\_\_\_\_

## Highland Shores Boat Ramp Improvements

Manatee County, Florida

Bid Form

| Item No.                 | Description                        | Unit | QTY   | Unit Price | Amount |
|--------------------------|------------------------------------|------|-------|------------|--------|
| 28a                      | Deck Top (Wooden)                  | LS   | 1     |            |        |
| 28b                      | Structural Framing (Wooden)        | LS   | 1     |            |        |
| 29a                      | Safety Railing (Wooden)            | LS   | 1     |            |        |
| 30                       | 10" Wooden Bollards                | EA   | 83    |            |        |
| 31                       | Concrete Wheel Stops               | EA   | 15    |            |        |
| 32                       | Signage                            | LS   | 1     |            |        |
| 33                       | Landscaping                        | LS   | 1     |            |        |
| 34                       | Irrigation System                  | LS   | 1     |            |        |
| 35                       | Dredging                           | CY   | 375   |            |        |
| 36                       | Berm (Temporary Spoil Containment) | CY   | 600   |            |        |
| 37                       | Spoil Transport to Disposal Site   | CY   | 1,000 |            |        |
| SUBTOTAL BASE PRICE      |                                    |      |       |            |        |
| Plus                     | 10% Contingency                    |      |       |            |        |
| TOTAL CONSTRUCTION PRICE |                                    |      |       |            |        |

| ALTERNATE | Description               | Unit | QTY | Unit Price | Amount |
|-----------|---------------------------|------|-----|------------|--------|
| 28a       | Deck Top ( Ipe 5/4" x 6") | LS   | 1   |            |        |
| 29a       | Safety Railing (Ipe)      | LS   | 1   |            |        |

By: Dated: 7/20/09

Revised: 9/10/09

Chkd: \_\_\_\_\_ Dated \_\_\_\_\_

**GEOTECHNICAL ENGINEERING  
SERVICES REPORT**

For the

**SHORE DRIVE  
CANAL DREDGING SITE  
MANATEE COUNTY, FLORIDA**

Prepared for

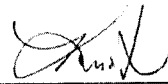
**Boyle Engineering Corporation  
5971 Cattleridge Boulevard, Suite 200  
Sarasota, FL 34232**

Prepared by

**Professional Service Industries, Inc.  
5801 Benjamin Center Drive  
Suite 112  
Tampa, Florida 33634  
Telephone (813) 886-1075  
Fax (813) 888-6514  
Engineering Business No. 3684**

PSI Project No. 787-65220

September 1, 2006



Kevin D. Hon  
Project Geologist



Martin E. Millburg, P.E. 9/1/06  
Geotechnical Department Manager  
Florida License No. 36584

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Boyle Engineering Corporation  
Shore drive  
PSI Project No 787-65220



## 1.0 PROJECT INFORMATION

### 1.1 PROJECT AUTHORIZATION

Authorization to proceed with this project was provided by Mr. R.J. Ezazi in the form of written agreement to PSI's proposal. This study was conducted in accordance with our proposal for these services dated August 18, 2006, PSI Proposal No. 787-6G0283.

### 1.2 PROJECT DESCRIPTION

The project is located at the Shore Drive boat ramp in Manatee County, Florida. We understand that the seawall at this location may be replaced and a geotechnical evaluation of the soils for seawall design parameters is desired.

If any of this project description information is incorrect, or if project plans change significantly, please contact PSI so that we may determine if changes in the recommendations are required.

### 1.3 PURPOSE AND SCOPE OF WORK

The purpose of this study was to obtain information on the general subsurface conditions at the proposed project site. The subsurface materials encountered were then evaluated with respect to the available project characteristics. In this regard, engineering assessments of the following items have been formulated:

- A discussion of subsurface conditions encountered including pertinent soil properties
- Identification of groundwater levels and an estimation of seasonal high groundwater levels at the boring locations.
- Provide geotechnical parameters for seawall design.

The following services have been provided in order to achieve the preceding objectives:

1. Executed a program of subsurface exploration consisting of subsurface sampling and field testing. We performed two (2) Standard Penetration Test (SPT) borings to a depth of 20 feet below the existing ground surface adjacent to the seawall. One on each side of the existing boat ramp. Soil samples were collected and Standard Penetration Test resistances were measured virtually continuously for the upper 10 feet and on intervals of 5 feet thereafter.
2. Visually classified representative soil samples in the laboratory using the Unified Soil Classification System (USCS). Identified soil conditions and formed an opinion of the soil stratigraphy at the boring locations.



Boyle Engineering Corporation  
Shore Drive  
PSI Project No. 787-65220

- 3 The results of the exploration have been used in the engineering analysis and the formulation of recommendations. The results of the subsurface exploration, including the recommendations and the data on which they are based, are presented in this written report supervised by a professional engineer.

The scope of our services did not include an environmental assessment for determining the presence or absence of wetlands or hazardous or toxic materials in the soil, bedrock, groundwater, or air, on or below or around this site. Any statements in this report or on the boring logs regarding odors, colors, unusual or suspicious items or conditions are strictly for the information of our client.

## 2.0 SITE AND SUBSURFACE CONDITIONS

### 2.1 SITE LOCATION AND DESCRIPTION

The site is located in Section 18, Range 18 East, Township 34 South in Manatee County, Florida. Specifically, it is located on Shore Drive to the south of the intersection with Highland Shores Drive in Ellenton, Florida. The USGS topographic map titled "Palmetto, Florida" indicates the natural ground surface at the site is at approximate elevation of +0 to +5 feet, based on the National Geodetic Vertical Datum (NGVD) of 1929.

### 2.2 MANATEE COUNTY SOIL SURVEY

The "Soil Survey of Manatee County, Florida" published by the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) was reviewed for general near surface soil information. This information indicates that the primary mapping unit in the vicinity of the project site is Wabasso fine sand (48). This complex is nearly level, poorly drained soil in areas of broad flatwoods. Slopes are less than 2 percent. Typically, the surface layer is very dark gray fine sand about 7 inches thick. The subsurface layer is gray fine sand about 14 inches thick. The subsoil is fine sand coated with organic material to a depth of about 28 inches. In the upper 4 inches it is black, and in the lower 3 inches it is dark reddish brown. The next layer, to a depth of 37 inches, is brown fine sand. Below that, to a depth of 65 inches, there is a grayish brown to gray loamy material. The substratum to a depth of 80 inches or more is sand and many shell fragments.

### 2.3 SUBSURFACE CONDITIONS

The subsurface conditions were explored using two (2) Standard Penetration Test (SPT) borings drilled to a depth of 20 feet below the existing ground surface adjacent to the existing seawall. The boring locations were selected by PSI, and were located in the field by PSI personnel measuring distances from existing site features. The approximate boring locations are presented on Sheet 1.



The SPT borings were advanced utilizing rotary mud drilling methods and soil samples were routinely obtained at selected intervals during the drilling process. Drilling and sampling techniques were accomplished in general accordance with ASTM standards.

Soil samples were returned to our laboratory for visual classification. Classifications were performed in general accordance with the Unified Soil Classification System (USCS).

The description presented below is of a generalized nature to highlight the major subsurface stratification features and material characteristics. The soil profiles included on Sheet 1 should be reviewed for specific information at the boring locations. The profile includes soil description, stratifications, penetration resistance and laboratory classification of soils. The stratifications shown on the boring profiles represent the conditions only at the actual boring location. The stratification represents the approximate boundary between subsurface materials and the actual transition may be gradual.

Clayey sand to sandy clay (Unified Classification SC/CH) was found to a depth ranging from approximately 4 to 6 feet below the ground surface. Lean to fat sandy clay to clay (CL/CH) was encountered to the terminal depth of the borings.

In general, the SPT borings performed encountered the following strata:

| Stratum | Soil Description          | USCS Classification |
|---------|---------------------------|---------------------|
| 1       | Clayey sand to sandy clay | (SC/CH)             |
| 2       | Lean to fat sandy clay    | (CL/CH)             |

#### 2.4 GROUNDWATER INFORMATION

Groundwater was located in the boring locations at the time of exploration at 3 feet below the ground surface. It should be noted that groundwater levels will be affected by man-made influences and tidal levels.

### 3.0 EVALUATION AND RECOMMENDATIONS

PSI has provided parameters which can be used to design the seawall for this site. These are included in the Appendix of this report.

Preliminary design recommendations have been developed based on the previously described project characteristics and subsurface conditions encountered. If there are any changes in these project criteria, including project location on the site, a review must be made by PSI to determine if any modifications in the recommendations will be required. The findings of such a review should be presented in a supplemental report.



#### 4.0 REPORT LIMITATIONS

The Geotechnical Engineer warrants that the findings, recommendations, specifications, or professional advice contained herein have been made in accordance with generally accepted professional geotechnical engineering practices in the local area. No other warranties are implied or expressed.

The State of Florida is underlain by a soluble limestone formation. This limestone can dissolve, resulting in subsidence of overlying soils and the formation of sinkholes at the ground surface. PSI's geotechnical study did not include an evaluation of the relative potential for sinkhole development at this site.

The recommendations submitted are based on the available subsurface information obtained by PSI and design details furnished by the Boyle Engineering Corporation for the proposed project. If there are any revisions to the plans for this project or if deviations from the subsurface conditions noted in this report are encountered during construction, PSI should be notified immediately to determine if changes in the recommendations are required. If PSI is not retained to perform these functions, PSI will not be responsible for the impact of those conditions on the geotechnical recommendations for the project.












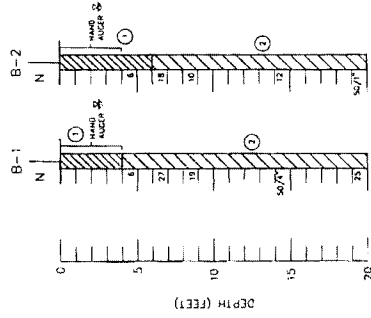
### BORING LOCATION PLAN

NOT TO SCALE



### LEGEND

-  Dark greenish gray to dark brown clayey SAND to sandy CLAY (SC/CH)
-  Light greenish gray to greenish gray (lean to fat sandy CLAY to CLAY (CL/CH)
-  Approximate SPT boring location
-  SPT N-value in blow/foot
-  Groundwater level, September 2006
-  50" x 50" Fifty Blows for six inches
-  Unified Soil Classification System (ASTM D 2487) group symbol as determined by equal review



### SOIL PROFILES

VERTICAL SCALE

|          |     |       |
|----------|-----|-------|
| PROJECT  | AN  | NOTED |
| DISTRICT | KDR |       |
| APPROVED | MEH |       |
| DATE     |     |       |

GEOTECHNICAL SERVICES  
 SHORE DRIVE  
 MANATEE COUNTY, FLORIDA  
 170 BOUTWELL  
 PALM BAY, FLORIDA 32909  
 TEL: 888-888-8888  
 FAX: 888-888-8888  
 WWW: WWW.GEOTECHNICALSERVICES.COM  
 DATE: SEP 06  
 DRAWING NO: 787-65220  
 SHEET 1

PROJECT: SHORE DRIVE PROJECT NO.: 787-65220

CLIENT: BOYLE ENGINEERING CORPORATION DATE: September 1, 2006

| BORING NUMBER | DEPTH (FEET) | SPT "N" AVERAGE | SOIL CLASSIFICATION | SOIL PARAMETERS                    |                                 | SOIL ANGLE OF FRICTION (DEGREES) | COHESION (PSF) | EARTH PRESSURE COEFFICIENT |              |
|---------------|--------------|-----------------|---------------------|------------------------------------|---------------------------------|----------------------------------|----------------|----------------------------|--------------|
|               |              |                 |                     | APPROXIMATE SOIL UNIT WEIGHT (PCF) | $\gamma$ SAT $\gamma$ SUBMERGED |                                  |                | ACTIVE (Ka)                | PASSIVE (Kp) |
| B-1           | 0-4          | 6               | SC/CH               | 115.0                              | 52.6                            | 0                                | 750            | 1.00                       | 1.00         |
|               | 4-20         | 25              | CL/CH               | 125.0                              | 62.6                            | 0                                | 3000           | 1.00                       | 1.00         |
| B-2           | 0-6          | 6               | SC/CH               | 115.0                              | 52.6                            | 0                                | 750            | 1.00                       | 1.00         |
|               | 6-20         | 23              | CL/CH               | 125.0                              | 62.6                            | 0                                | 3000           | 1.00                       | 1.00         |

**[Psi]**