

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS**

**AGENDA ITEM SUMMARY**

**Meeting Date:** April 15, 2008 ( x ) Consent ( ) Regular  
( ) Workshop ( ) Public Hearing

**Department**

**Submitted By:** Environmental Resources Management  
**Submitted For:** Environmental Resources Management

**I. EXECUTIVE BRIEF**

**Motion and Title: Staff recommends motion to approve:** Task Order No. ERM08-03 to a continuing Contract with Bridge Design Associates, Inc., in the amount of \$355,672 for the South Lake Worth Inlet (SLWI) sand transfer plant design modifications and construction supervision, and final design of the north and south jetty rehabilitation and the Bird Island seawall.

**Summary:** The BCC approved the Contract with Bridge Design Associates, Inc. (BDA) on February 5, 2008 (R2008-0159). Task Order No. ERM08-03 authorizes BDA to provide engineering services for proposed cost-saving modifications to the design of the SLWI sand transfer plant and utility trench and construction supervision during the estimated 16 month period of construction of the sand transfer plant. Costs for construction supervision for the north and south jetty rehabilitation and the Bird Island seawall will be negotiated separately. There is 100% SBE consultant and subconsultant participation on this Task Order. District 4 (JM)

**Background and Justification:** Bids received in April 2007 for the construction of the new plant were \$2,000,000 higher than budgeted. Fifty percent of the redesign costs will be reimbursed by the Florida Department of Environmental Protection under pending Amendment 6 of Grant Agreement 99PB1.

**Attachments:**

1. Task Order No. 08-03 with Contract History
2. Contract (pages 1, 13, and Fee Schedule)

**Recommended by:** Richard E. Walubky 4/3/08  
Department Director Date

**Approved by:** [Signature] 4/10/08  
County Administrator Date

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

Fiscal Years	2008	2009	2010	2011	2012
Capital Expenditures	_____	_____	_____	_____	_____
Operating Costs	<u>\$355,672</u>	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
<b>NET FISCAL IMPACT</b>	<u>\$355,672</u>	_____	_____	_____	_____
<b># ADDITIONAL FTE POSITIONS (Cumulative)</b>	_____	_____	_____	_____	_____

Is Item Included in Current Budget? Yes x No \_\_\_\_\_  
 Budget Account No.: Fund 3653 Department 381 Unit M703 Object 3120  
 Program \_\_\_\_\_

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

South Lake Worth Inlet Sand Transfer Plant Reconstruction Fund

<b>C. Department Fiscal Review:</b>	<i>[Signature]</i>	Bridge Design Assoc.	\$171,499.50
		Smith Eng. Consult.	\$ 78,940.00
		Powell Kugler Inc.	<u>\$105,233.00</u>
			<u>\$355,672.50</u>

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and /or Contract Dev. and Control Comments:**

*atwillhite 4.3.08* / *[Signature] 4/17/08*  
 OFMB *4/9/08* *3/31/08* Contract Development and Control

**B. Legal Sufficiency:**

*[Signature] 4/9/08*  
 Assistant County Attorney

This item complies with current County policies.

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director

Attachment 1

**TASK ORDER**

TASK ORDER: ERM08-03 CONSULTANT: Bridge Design Associates, Inc.

ACCOUNT: 3653-381-M703-3120 CONTRACT: R2008-0159

[Fiscal approval of Budget Availability: \_\_\_\_\_]

PROJECT MANAGER: Tracy Logue PHONE: 561-233-2491

CONTRACT MANAGER: \_\_\_\_\_ PHONE: \_\_\_\_\_

PROJECT NAME: South Lake Worth Inlet Sand Transfer Plant Reconstruction, North and South Jetty Rehabilitation, and Bird Island Seawall Construction.

LOCATION (DISTRICT): South Lake Worth Inlet (District 4)

TASK DESCRIPTION (use additional pages if necessary): The Consultant shall provide engineering services for proposed modifications to the South Lake Worth Inlet sand transfer plant and utility trench and final design of the north and south jetty rehabilitation and the Bird Island seawall, as specified in the proposal dated March 19, 2008.

DELIVERABLES: See scope of work/proposal attached.

TASK ORDER TYPE: FIXED PRICE DUE DATE: 8/13/08

TOTAL AMOUNT \$ 355,672.50 See proposal/spreadsheets dated 3/19/08

RETAINAGE: \$ 0

(Check 1 or both) for Prime & Subcontract Amounts:

	Black	Hispanic	Women	White Male
M/WBE <input type="checkbox"/>	\$ _____	\$ _____	\$ _____	
SBE <input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$355,672.50
TOTAL SBE-M/WBE PARTICIPATION: \$ <u>355,672.50</u>				

CONSULTANT REP: [Signature] DATE: 3/20/08

DIVISION DIRECTOR: [Signature] DATE: 3/25/08

APPROVED AS TO TERMS AND CONDITIONS:

ERM DIRECTOR: [Signature] DATE: 3/26/08

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

ASSISTANT COUNTY ATTORNEY: \_\_\_\_\_ DATE: \_\_\_\_\_

BOARD OF COUNTY COMMISSIONERS: \_\_\_\_\_ DATE: \_\_\_\_\_

Addie L. Greene, Chairperson

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**BRIDGE DESIGN ASSOCIATES, INC.**



**BRIAN C. RHEULT, P.E.**  
*President*

March 19, 2008

Palm Beach County ERM  
2300 N. Jog Road  
West Palm Beach, Florida 33411

**ATTENTION:** Tracy Logue

**REGARDING:** Modifications to Sand Transfer Plant  
Utility Trench and Jetty Rehabilitation  
and new seawall design for Bird Island

**PROJECT NO.:** 04-571

Dear Tracy:

Pursuant to your request, Bridge Design Associates, Inc. can provide engineering services for the proposed modifications to the Sand Transfer Plant, Utility Trench, Jetty Rehabilitation and a new seawall at Bird Island under the terms and conditions of our Annual Agreement with Palm Beach County,

Our scope of services shall include the following:

- Modification of the shape of the proposed building including modifications to the foundation and roof system to be consistent with the construction means and methods typically utilized in South Florida.
- In addition, we will modify the western end of the utility trench and eliminate the top enclosure covers when practical.
- We will coordinate with the mechanical and electrical engineers to value engineer their systems based on the contractor's comments.
- We will provide modifications of the jetty plans to be consistent with the proposed Sand Transfer Plant modifications.
- Submittal to Palm Beach County Planning and Zoning and response to code concerns prior to bidding.

**Modifications to Sand Transfer Plant  
Utility Trench and Jetty Rehabilitation  
and new seawall design for Bird Island  
Page 2**

- We will design the replacement walls adjacent to the inlet for Bird Island.

The project will be complete 120 days following written notice to proceed.


Included in our fee will be three (3) sets of 11x17 plans at the 30%, 65%, and 90% submittals.

We will provide two (2) sets of 24x36 signed and sealed plans at 100% completion as well as one unsigned set for reproduction (24x36), (11x17) and an electronic AutoCad and PDF format of the final plans.

The attached Exhibits "A", "A-2", "A-3", "B" & "C" are our approximate manhour breakdowns of tasks with commensurate fees for the design phase. The total Lump Sum fee is \$237,151.50

Bridge Design Associates, Inc. (SBE)	49.8% of total fee
Smith Engineering Consultants, Inc. (SBE)	20.6% of total fee
Powell Kugler, Inc. (SBE)	29.6% of total fee

Construction Phase services for the Sand Transfer Plant only will be performed over a 16-month time period. Our scope of services shall include the following:

- Pre-Bid Meeting and responses to RFI's.
  - Pre-Construction Meeting
  - Shop Drawing Reviews for the following:
    - Piling
    - Concrete mixes / add mixtures
    - Reinforcing steel
    - Doors / windows and miscellaneous hardware
    - Roof framing and roofing materials
  - Weekly site visits (approximately 2.0 hours per week)
  - One monthly progress meeting and site visit by the Chief Engineer (8 hours per month).
  - Field Reports will be sent to Owner on a weekly basis
  - Copies of Meeting Minutes will be sent to Owner
  - Final Certification package will be transmitted to Owner upon project completion.
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**Modifications to Sand Transfer Plant  
Utility Trench and Jetty Rehabilitation  
and new seawall design for Bird Island  
Page 3**

The attached Exhibit "D" is a manhour breakdown of tasks with commensurate fees. The total Lump sum fee is \$118,521.00

Bridge Design Associates, Inc. (SBE)	45% of total fee
Smith Engineering Consultants, Inc. (SBE)	25% of total fee
Powell Kugler, Inc. (SBE)	30% of total fee

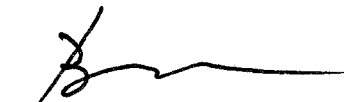
Included in our fee will be weekly progress reports including daily reports and certifications at the end of the project.

Construction Phase services for the jetty rehabilitation and Bird Island are not included in these fees.

If you have any questions, please give me a call.

Respectfully,

**BRIDGE DESIGN ASSOCIATES, INC.**



**Brian C. Rheault, P.E.  
President**

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BRIDGE DESIGN ASSOCIATES, INC.  
 MODIFICATIONS TO THE SAND TRANSFER PLANT AND UTILITY TRENCH  
 March 13, 2008  
 HOURLY BREAKDOWN OF SERVICES  
 EXHIBIT "A"

ACTIVITY	CHIEF ENGINEER	SENIOR ENGINEER	CADD TECH	ENGINEER INTERN	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$195.00	\$150.00	\$93.00	\$75.00		
Modify Cover Sheet			4.0		4.0	\$372.00
Project Team Sheet			4.0		4.0	\$372.00
Modify C1 Plan / Keshavarz	2.0		8.0		10.0	\$1,134.00
SP-1 Modification			8.0		8.0	\$744.00
A-1 Modification	4.0		4.0		8.0	\$1,152.00
A-2 Modification	4.0		4.0		8.0	\$1,152.00
A-3 Modification	4.0		4.0		8.0	\$1,152.00
A-4 Modification	4.0		4.0		8.0	\$1,152.00
A-5 Modification	4.0		4.0		8.0	\$1,152.00
A-6 Modification	4.0	12.0	4.0		20.0	\$2,952.00
S1 Building Plan Views Modification	4.0	8.0	80.0		92.0	\$9,420.00
S2 Building Details Modification	8.0	12.0	35.0		55.0	\$6,615.00
S3 Building Details Modification	8.0	12.0	35.5		55.5	\$6,661.50
Attendance Pre-Bid Meeting	2.0	2.0			4.0	\$690.00
Clarification Responses	2.0	8.0			10.0	\$1,590.00
Sheet ST1						
ST2 (shorten trench)	1.0	2.0	4.0		7.0	\$867.00
ST3 (shorten trench)		2.0			2.0	\$300.00
Modify connect to STP	2.0	2.0	4.0		8.0	\$1,062.00
ST4 (shorten trench)	1.0	2.0	4.0		7.0	\$867.00
ST5 (design & modify electrical room trench access / bridge	4.0	4.0	12.0		20.0	\$2,496.00
ST6/7 (modify detail)		2.0	10.0		12.0	\$1,230.00
ST7						
ST8						
ST9 (modify detail)	2.0	2.0	8.0		12.0	\$1,434.00
ST10 (modify detail)	2.0	2.0	8.0		12.0	\$1,434.00
ST11 (modify detail)	2.0	2.0	8.0		12.0	\$1,434.00
ST12 (modify detail)	2.0	2.0	8.0		12.0	\$1,434.00
Coordination with team	6.0	2.0			8.0	\$1,470.00
Coordination with Palm Beach County	8.0	2.0			10.0	\$1,860.00
Construction Cost Estimate	1.0			10.0	11.0	\$945.00
<b>TOTAL MANHOURS</b>	<b>81.0</b>	<b>80.0</b>	<b>264.5</b>	<b>10.0</b>	<b>435.5</b>	
<b>DIRECT LABOR COST</b>	<b>\$15,795.00</b>	<b>\$12,000.00</b>	<b>\$24,598.50</b>	<b>\$750.00</b>		<b>\$53,143.50</b>

BRIDGE DESIGN FEES \$53,143.50  
 SMITH CONSULTING ENGINEERS \$48,940.00  
 POWELL KUGLER \$70,112.00  
**TOTAL FEES \$172,195.50**

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SMITH ENGINEERING CONSULTANTS, INC.  
 MODIFICATIONS TO THE SAND TRANSFER PLANT AND UTILITY TRENCH  
 February 27, 2008  
 HOURLY BREAKDOWN OF SERVICES  
 EXHIBIT "A2"

ACTIVITY	PROJECT MANAGER	PROJECT ENGINEER	CADD TECH	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$130.00	\$115.00	\$65.00		
Initial Site Visit	4.0	4.0	0.0	8.0	\$980.00
Review Project Plans and Specifications	4.0	4.0	4.0	12.0	\$1,240.00
FPL Coordination	2.0	4.0	0.0	6.0	\$720.00
E-1: Electrical Legend and General Notes	2.0	2.0	4.0	8.0	\$750.00
E-2: Electrical Site Plan	2.0	8.0	8.0	18.0	\$1,700.00
E-3: Electrical Riser Diagram	6.0	12.0	8.0	26.0	\$2,680.00
E-4: First Floor Electrical Plans	6.0	12.0	12.0	30.0	\$2,940.00
E-5: Second Floor Electrical Plans	6.0	12.0	12.0	30.0	\$2,940.00
E-6: Electrical Schematics	8.0	12.0	12.0	32.0	\$3,200.00
E-7: Control Panel Details	4.0	8.0	8.0	20.0	\$1,960.00
E-8: Control and Instrumentation Riser Diagram	6.0	12.0	8.0	26.0	\$2,680.00
E-9: Electrical Schedules	8.0	16.0	16.0	38.0	\$3,660.00
E-10: Electrical Details	2.0	4.0	4.0	10.0	\$980.00
Electrical Specifications	9.0	12.0	1.0	22.0	\$2,615.00
M-1: First Floor HVAC Plan	2.0	8.0	8.0	18.0	\$1,700.00
M-2: Second Floor HVAC Plan	2.0	8.0	8.0	18.0	\$1,700.00
M-3: HVAC Schedules and Details	4.0	12.0	12.0	28.0	\$2,680.00
P-1: First Floor Plumbing Plan	2.0	6.0	8.0	16.0	\$1,470.00
P-2: Second Floor Plumbing Plan	2.0	6.0	8.0	16.0	\$1,470.00
P-3: Plumbing Riser Diagrams	2.0	8.0	12.0	22.0	\$1,960.00
P-4: Plumbing Schedules and Details	2.0	8.0	8.0	18.0	\$1,700.00
Mechanical Specifications	2.0	8.0	1.0	11.0	\$1,245.00
Coordination with Team	6.0	6.0	12.0	24.0	\$2,250.00
Coordination with Palm Beach County	6.0	6.0	6.0	18.0	\$1,860.00
Construction Cost Estimate	6.0	6.0	6.0	18.0	\$1,860.00
<b>TOTAL MANHOURS</b>	<b>103.0</b>	<b>204.0</b>	<b>186.0</b>	<b>493.0</b>	
<b>DIRECT LABOR COST</b>	<b>\$13,390.00</b>	<b>\$23,460.00</b>	<b>\$12,090.00</b>		<b>\$48,940.00</b>

TOTAL FEES                      \$48,940.00

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Exhibit A-3

South LW Sand Pumping Facility

2/15/08

South LW Sand Transfer  
Facility  
Engineering Services

15-Feb-08

POWELL KUGLER Inc.

Task Description	Job Description	Rate	Hours	Total
<b>Task 4.1 Preliminary Design</b>				
Kick-off Meeting	chief engineer	\$ 170.50	4	\$ 682
Progress Meetings	chief engineer	\$ 170.50	12	\$ 2,046
Site Visit	chief engineer	\$ 170.50	4	\$ 682
Basis of Design Report	chief engineer			
Boom Assembly		\$ 170.50	8	\$ 1,364
Suction Head		\$ 170.50	8	\$ 1,364
System Capacity		\$ 170.50	16	\$ 2,728
Discharge Line		\$ 170.50	8	\$ 1,364
<b>Total Task 4.1</b>				<b>\$ 10,230</b>
<b>Task 4.2 Mechanical Design</b>				
Pumping System	chief engineer			
Operational Criteria		\$ 170.50	8	\$ 1,364
Hydraulic Analysis		\$ 170.50	24	\$ 4,092
Process Schematics		\$ 170.50	8	\$ 1,364
Equipment Selection		\$ 170.50	12	\$ 2,046
Equip/Piping Layout		\$ 170.50	16	\$ 2,728
Boom Assembly				
Operational Criteria		\$ 170.50	8	\$ 1,364
Equipment Selection		\$ 170.50	24	\$ 4,092
Foundation/Mechanical Design		\$ 170.50	24	\$ 4,092
Suction Line Design				
Operational Criteria		\$ 170.50	8	\$ 1,364
Hydraulic Design		\$ 170.50	16	\$ 2,728
Mechanical Design		\$ 170.50	16	\$ 2,728
Discharge Line				
Route Layout		\$ 170.50	16	\$ 2,728
Mechanical Design		\$ 170.50	12	\$ 2,046
Discharge Design		\$ 170.50	8	\$ 1,364
<b>Total Task 4.2</b>				<b>\$ 34,100</b>
<b>Task 4.3 - Contract Documents</b>				
Drawing Development/Prepare	lead engineer			
General Arrangement/Piping		\$ 151.35	24	\$ 3,632
Discharge Line		\$ 151.35	16	\$ 2,422
P&ID		\$ 151.35	8	\$ 1,211
Piping Details		\$ 151.35	8	\$ 1,211
Suction Boom		\$ 151.35	24	\$ 3,632
Suction Line		\$ 151.35	24	\$ 3,632
Suction Head		\$ 151.35	12	\$ 1,816
Specifications	chief engineer			

Exhibit A-3

South LW Sand Pumping Facility

2/15/08

Specification Preparation	\$ 170.50	24	\$ 4,092
<b>Total Task 4.3</b>			<b>\$ 21,649</b>
<b>Task 4.4 Cost Estimate</b>			
Quantity Take-offs	\$ 129.15	8	\$ 1,033
Equipments Quotes	\$ 129.15	8	\$ 1,033
Contractor Input	\$ 129.15	8	\$ 1,033
Estimate Preparation	\$ 129.15	8	\$ 1,033
<b>Total Task 4.4</b>			<b>\$ 4,133</b>
	<b>TOTAL</b>		<b>\$70,112.00</b>

BRIDGE DESIGN ASSOCIATES, INC.

MODIFICATIONS TO JETTY REHABILITATION AND RESTORATION PLANS  
BDA PROJECT 04-571  
March 13, 2008

EXHIBIT "B"

ACTIVITY	CHIEF ENGINEER	SENIOR ENGINEER	CADD TECH	ENGINEER INTERN	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$195.00	\$150.00	\$93.00	\$75.00		
Sheet S1 Modify Title Blocks & Plan	2.0		7.0		9.0	\$1,041.00
Sheet S2 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S3 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S4 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S5 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S6 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S7 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S8 Modify trench area	2.0		8.0		10.0	\$1,134.00
Sheet S9 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S10 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S11 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S12 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S13 Modify trench area	2.0		8.0		10.0	\$1,134.00
Sheet S14 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S15 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S16 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S17 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S18 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S19 Modify trench area	2.0		7.0		9.0	\$1,041.00
Sheet S20 Modify trench area	2.0		8.0		10.0	\$1,134.00
Sheet S21 No change					0.0	\$0.00
Sheet S22 No change					0.0	\$0.00
Sheet S23 No change					0.0	\$0.00
Sheet S24 No change					0.0	\$0.00
Sheet S25 No change					0.0	\$0.00
Sheet S26 No change					0.0	\$0.00
Sheet S27 No change					0.0	\$0.00
Sheet S28 No change					0.0	\$0.00
Sheet S29 No change					0.0	\$0.00
Sheet S30 No change					0.0	\$0.00
Coordination with team	4.0	4.0			8.0	\$1,380.00
Coordination with Palm Beach County	4.0	4.0			8.0	\$1,380.00
Construction Cost Estimate	4.0			32.0	36.0	\$3,180.00
<b>TOTAL MANHOURS</b>	<b>52.0</b>	<b>8.0</b>	<b>143.0</b>	<b>32.0</b>	<b>235.0</b>	
<b>DIRECT LABOR COST</b>	<b>\$10,140.00</b>	<b>\$1,200.00</b>	<b>\$13,299.00</b>	<b>\$2,400.00</b>		<b>\$27,039.00</b>

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BRIDGE DESIGN ASSOCIATES, INC.

BIRD ISLAND BULKHEAD RETROFIT

March 13, 2008

HOURLY BREAKDOWN OF SERVICES  
EXHIBIT "C"

ACTIVITY	CHIEF ENGINEER	SENIOR ENGINEER	CADD TECH	ENGINEER INTERN	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$195.00	\$150.00	\$93.00	\$75.00		
Site Visit	6.0			6.0	12.0	\$1,620.00
Coordination with soils engineer		4.0			4.0	\$600.00
Coordination with surveyor		4.0	4.0		8.0	\$972.00
Analyze wall for stability	8.0	40.0			48.0	\$7,560.00
Design deadman anchor system	2.0	16.0			18.0	\$2,790.00
Sheetpile cap	2.0	16.0			18.0	\$2,790.00
Corrosion rate / life expectancy design	4.0			11.0	15.0	\$1,605.00
Detailing design			110.0		110.0	\$10,230.00
Specifications Steel Sheeting	2.0			7.0	9.0	\$915.00
Concrete	2.0			7.0	9.0	\$915.00
Reinforcing steel	2.0			7.0	9.0	\$915.00
Tie Rods	2.0			7.0	9.0	\$915.00
Anchors	2.0			7.0	9.0	\$915.00
Coatings	2.0			7.0	9.0	\$915.00
Meeting with Palm Beach County / Permit Sketch	4.0	8.0			12.0	\$1,980.00
Quantities and Cost Estimates	4.0			20.0	24.0	\$2,280.00
<b>TOTAL MANHOURS</b>	<b>42.0</b>	<b>88.0</b>	<b>114.0</b>	<b>79.0</b>	<b>323.0</b>	
<b>DIRECT LABOR COST</b>	<b>\$8,190.00</b>	<b>\$13,200.00</b>	<b>\$10,602.00</b>	<b>\$5,925.00</b>		<b>\$37,917.00</b>

04-571 03-13-08 proposal

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BRIDGE DESIGN ASSOCIATES, INC.  
 SAND TRANSFER PLANT AND UTILITY TRENCH  
 CONSTRUCTION PHASE SERVICES (BASED ON 18 MONTH CONSTRUCTION)  
 BDA PROJECT 04-571  
 March 13, 2008

EXHIBIT "D"

ACTIVITY	CHIEF ENGINEER	SENIOR ENGINEER	CADD TECH	ENGINEER INTERN	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	\$195.00	\$150.00	\$93.00	\$75.00		
Pre-Bid Meeting / Requests for Information	8.0				8.0	\$1,560.00
Pre-Construction Meeting	4.0			4.0	8.0	\$1,080.00
Shop Drawing Reviews	8.0	24.0			32.0	\$5,160.00
Site Visits	32.0	96.0			128.0	\$20,640.00
Monthly Progress Meeting & Site Visits	128.0				128.0	\$24,960.00
<b>TOTAL MANHOURS</b>	<b>180.0</b>	<b>120.0</b>	<b>0.0</b>	<b>4.0</b>	<b>304.0</b>	
<b>DIRECT LABOR COST</b>	<b>\$35,100.00</b>	<b>\$18,000.00</b>	<b>\$0.00</b>	<b>\$300.00</b>		<b>\$53,400.00</b>

BRIDGE DESIGN FEES	\$53,400.00
SMITH ENGINEERING CONSULTA	\$30,000.00
POWELL KUGLER	<u>\$35,121.00</u>
<b>TOTAL</b>	<b>\$118,521.00</b>

04-571 03-13-08 proposal

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Powell Kugler, Inc.

Exhibit "D-2"

**Task 4.5 Construction Management Services**

**Bid and Award Phase Support**

Pre-Bid Meeting	project manager	\$ 129.15	4	\$	517
Addenda Review and Preparation		\$ 129.15	8	\$	1,033
Bid Evaluation and Recommendations		\$ 129.15	4	\$	517

**Construction Contract S&A**

General Administration	project manager	\$ 129.15	16	\$	2,066
Pre-work Meeting		\$ 129.15	4	\$	517
Progress Meetings		\$ 129.15	40	\$	5,166
Coordination Meetings		\$ 129.15	24	\$	3,100
Daily Inspection	senior inspector	\$ 110.70	80	\$	8,856
Engineer's Inspection	chief engineer	\$ 170.50	24	\$	4,092
Compliance Submittal Review	chief engineer	\$ 170.50	24	\$	4,092
Change Order Review	project manager	\$ 129.15	24	\$	3,100
As-Built Drawing Review	project manager	\$ 129.15	16	\$	2,066
<b>Total Task 4.5</b>				\$	<b>35,121</b>

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# **SEC** Smith Engineering Consultants, Inc.

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September 26, 2007  
(Revised February 27, 2008)

Mr. Brian C. Rheault, P.E.  
Bridge Design Associates, Inc.  
1402 Royal Palm Beach Blvd., Bldg. 200  
Royal Palm Beach, FL 33411

Re: South Lake Worth Inlet Sand Transfer Pump  
Mechanical/Electrical Engineering Services Proposal

Dear Brian:

Smith Engineering Consultants, Inc. (SEC) is pleased to provide this proposal for the above referenced project. We propose to provide the following scope of services:

Design Phase:

1. Initial site visit and review of project drawings and specifications.
2. Coordinate with FPL to provide electric service to the site.
3. Electrical design including power, control, building and site lighting, and instrumentation for the installation of a sand transfer plant for the south Lake Worth inlet. The design will be similar in scope to the prior design prepared by C&W Engineering to include the following value engineering recommendations made by others:
  - a. The power service will be 4, 160V instead of 480V.
  - b. No standby generator is to be provided.
  - c. NEMA 1 or 12 enclosures for electrical equipment will be specified instead of NEMA 4X enclosures.
  - d. No provisions for a portable standby generator are to be made.
  - e. Building lightning protection is to be installed.
4. Mechanical design including HVAC and plumbing. AC will include air conditioning of the electrical equipment and operator control booth. Ventilation of the remainder of the building will be provided. Plumbing will include a toilet and janitor sink, and a floor drain with sump pump.
5. Attend design coordination meetings as necessary with the project team.

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# SEC

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6. Attend a kickoff meeting, and 30, 60, and 90 percent review meetings with the owner. Attend up to two (2) additional value engineering review meetings and respond to value engineering review comments.
7. Prepare mechanical and electrical construction cost estimates to go along with the 60, 90, and 100 percent plans and specifications.
8. Attend the pre-bid meeting.

SEC will prepare contract documents, suitable for bidding, permit, and construction, including plans and specifications. We will assist in preparing addendums and respond to questions during the bid process. We propose to furnish AutoCAD drawings using base plan drawings provided by Bridge Design Associates (see attached preliminary drawing list). Our lump sum fee to provide the Design Phase services described above is \$48,940.

## Construction Phase:

1. Attend the pre-construction meeting.
2. Attend monthly construction meetings.
3. Review mechanical and electrical equipment shop drawings.
4. Respond to contractor requests for information (RFI's) and review change order requests.
5. Perform construction observation site visits as necessary.
6. Attend the start-up of mechanical and electrical/instrumentation systems.
7. Perform substantial completion and final inspections and prepare punch lists.
8. Review operation and maintenance manuals.
9. Prepare record drawings based upon contractor "as-built" drawings.

This scope for construction phase services is based upon providing limited assistance, on an as-needed basis, to the project team over a twelve (12) month period. Our lump sum fee to provide the Construction Phase services described above is \$24,000. If the actual construction period is less than or greater than 12 months we propose that our fee be decreased or increased by \$1,500 per month respectively.

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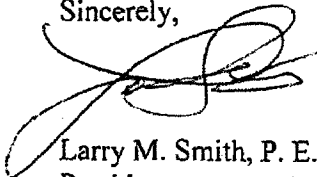
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**SEC**

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Thank you for using Smith Engineering Consultants as the source for these engineering services. We look forward to working with you on this project.

Sincerely,



Larry M. Smith, P. E.  
President

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**SEC DRAWING LIST**  
(Preliminary)

**ELECTRICAL:**

- E-1: Electrical Legend and Notes
- E-2: Electrical Site Plan
- E-3: Electrical Riser Diagram
- E-4: First Floor Electrical Plans
- E-5: Second Floor Electrical Plans
- E-6: Electrical Schematics
- E-7: Control Panel Details
- E-8: Control and Instrumentation Riser Diagram
- E-9: Electrical Schedules
- E-10: Electrical Details

**MECHANICAL:**

- M-1: First Floor HVAC Plan
- M-2: Second Floor HVAC Plan
- M-3: HVAC Schedules and Details
  
- P-1: First Floor Plumbing Plan
- P-2: Second Floor Plumbing Plan
- P-3: Plumbing Riser Diagrams
- P-4: Plumbing Schedules and Details

**STATEMENT OF WORK  
SOUTH LAKE WORTH INLET SAND TRANSFER FACILITY  
PALM BEACH COUNTY, FLORIDA  
PREPARATION OF CONSTRUCTION DOCUMENTS  
FOR THE  
PUMPING SYSTEM (MECHANICAL)**

**1.0 INTRODUCTION**

The project consists of replacement of the South Lake Worth inlet sand transfer pumping facility. The project was designed and bid with the low bid over the County's budget for the facility resulting in the rejection of all bids. The County's Environmental Enhancement & Restoration Division has issued a task order to Bridge Design Associates, Inc., (BDA Inc), Royal Palm Beach Florida for the redesign of the facility to reduce the cost of the facility. Bridge Design Associates, Inc. has requested Powell Kugler Inc., (PK Inc.), West Palm Beach, Florida to support them in the re-design of the pumping system and related mechanical assemblies of the facility.

**2.0 OBJECTIVE**

The objective of the re-design of the pumping system and its related auxiliaries is to investigate and determine the best options for reduction of project costs. The recommended design changes shall make every effort to minimize the impact to the original design criteria in regard to:

- The service life of the mechanical systems.
- Performance characteristics of the pumping system.
- Monitoring and control systems.
- Operation and maintenance of the pumping system.

However, the cost reduction necessary to meet budget may require significant change to the original design. Therefore it is assumed all design criteria of the pumping system shall require evaluation and possible modification.

**3.0 SCOPE OF WORK**

The scope of work shall include the review and discussion of the existing facility as well as the current design with pump manufacturer's, fabricators, and contractors to determine the high risk and/or high cost features of the project. The focus of the redesign shall be on those components, systems, and assemblies, where significant cost reductions may be realized and still satisfy the redesign objectives as described above.

The design criteria for the various elements of the sand transfer pumping system (discussed below) shall be established or validated by the County. Based on the design criteria, the hydraulic and/or mechanical analysis shall be performed for the selected redesign components.

Detailed construction contract drawings and specifications shall be prepared for the pumping system and its related auxiliaries for inclusion in the bid package. Coordination with the various engineering disciplines and the County shall be through BDA Inc. The work shall include participation through the re-bid process including attendance at a pre-bid meeting, development of contract addenda, review of bid submittals, etc. Upon successful execution of a construction contract the work shall include construction phase support as described below.

#### **4.0 WORK BREAKDOWN STRUCTURE**

##### **Task 4.1 - Preliminary Design**

**Kick-Off Meeting:** PK Inc. shall meet at the BDA Inc. project manager and the County staff to discuss project goals and objectives and identify potential items for redesign.

**Progress Meetings:** PK Inc. shall meet with the BDA Inc. project manager as directed to provide updates on the progression of work. The meeting agendas shall include the evaluation of alternatives and generation of recommendations on technical issues. In order to maintain the aggressive project schedule, it will be necessary to obtain concurrence on critical path issues in a timely manner. To facilitate the decision making process, it is envisioned that the BDA Inc. and the County staff shall consult with each other on a frequent basis regarding specific technical issues. PK Inc. shall prepare appropriate technical information.

**Project Site Visit:** PK Inc. shall visit the project site with BDA Inc. and County staff to inspect the existing facility and review its operation. Any available plans, operating manuals, equipment data, etc. shall be collected and reviewed.

**Basis of Design Report:** PK Inc. shall prepare a basis of design report which shall establish and document the design criteria used for the redesign analysis. Critical criteria that shall be established shall include:

- **Suction Line Boom Assembly:** The current design improves the range of excavation. However, background reports indicate no County requirement to increase the pit area. Reduction of the range of the boom could significantly reduce the load requirements, reducing cost of the lift assembly as well as the cost of the foundation. The contract documents provide only conceptual views of the proposed boom requiring the contractor to design and fabricate a custom assembly that has significant load requirements. The contractor therefore assumes the risk of the performance of the concept that may have operational flaws. Replacement of this custom assembly with a lift assembly from a proven manufacturer's product line eliminates the contractor risk and reduces cost. Therefore the change from the current excavation range needs to be verified. Given the boom's coastal exposure, the load and fabrication criteria need to be established. Operator comments indicate a preference for enclosed motors and the ability to tie-down the assembly.
- **Suction Line Head Assembly:** The operator's comments indicate only the need for a bar screen at the suction nozzle to protect the pump. The design drawings provide only conceptual level detail of the proposed suction head requiring the contractor to design, fabricate and accept responsibility of the concept. The design criteria for the suction head shall be established.

- **Pumping System Capacity:** The increase in production rate for the plant appears to be based on a somewhat dated cost/benefit analysis that indicates a labor cost savings given an increased system transfer rate capacity. The need for this proposed capacity increase shall be validated by the County.
- **Discharge Line Replacement:** Given the capacity does not increase over the existing plant, an evaluation of the need to replace the discharge line shall be made. If the line has some remaining service life, its replacement could be deferred to a later date and only the corroded structural elements replaced.
- **Discharge Facilities:** Review possible reduction of discharge line length by re-location of the proposed discharge point. Validate the current method of discharge is acceptable and establish the criteria for the deposition of the material.

Based on the design criteria established, design alternatives shall be identified for the various system elements. The alternatives shall be analyzed and screened to develop a cost effective redesign. PK Inc. shall provide preliminary engineering analysis for evaluation of the redesign alternatives. Discussions shall be conducted with manufacturers, fabricators and contractors for input into the redesign items. PK Inc. shall select the optimum design alternative and provide design, fabrication and construction recommendations based on the selected alternative. A draft of the report shall be provided to the BDA Inc. for distribution and review by the County to ensure agreement with the proposed direction of the redesign effort.

#### **Task 4.2 – Mechanical Engineering Analysis and Design**

**Pumping System Design:** Based on the established design criteria, applicable codes, as well as industry practices, the hydraulic/mechanical design of the sand transfer pumping system shall include:

- Design parameter summary
- Calculation of system hydraulics
- Preparation of process and instrumentation diagrams
- Selection of equipment (pumps, motors, and valves) and preparation of equipment list
- Establish the space allocation needs for the essential equipment of the sand transfer pump system
- Prepare pump station equipment layout including pipe routing within the structure

**Suction Line Boom Design:** Given the desire for a standard product line lifting unit, (this scope does NOT include the custom design of a boom assembly), the mechanical/structural design of the suction line boom shall include:

- Design parameter summary
- Evaluation and selection of a lifting unit, includes manufacturer discussions of custom features, control requirements, etc.
- Foundation design

**Suction Line Design:** This task includes:

- Design parameter summary
- Calculations of the static and dynamic loading.
- The hydraulic design of the suction line including the water jet system.

- The structural design of the line supports.
- The hydraulic/structural design of suction head.

**Discharge Line Design:** This task includes:

- Route layout (on civil drawings)
- Valve, air release valves, and fitting selection.
- Pipe trench requirements or structural supports including bridge hangers.
- The discharge line structural support is NOT included in this scope.
- Bridge structural modifications are NOT included in this scope.

**Task 4.3 - Preparation of Contract Documents**

**Contract Drawings:** The contract drawings shall be prepared using the AutoCAD software (24" x 36") and shall be suitable for solicitation of bids, obtaining the required construction permits, and construction of the project. The drawings shall be signed and sealed by a licensed professional engineer registered in the State of Florida and in accordance with Florida Building Code requirements for signing and sealing construction documents (Florida Law Chapter 61G15 23-30). The drawings shall include:

- The general arrangement plans showing the major equipment and piping for the main sand transfer pumping system and its auxiliary systems.
- Process and instrumentation diagrams
- Details unique to the pumping system and its auxiliaries.
- Suction line boom plans, elevations and foundation details.
- Suction line details.
- Suction line head details.
- Discharge line plans, elevations and details.

**Contract Specifications:** The final mechanical specifications shall pertain to the pumping system and its auxiliary systems. The specifications shall be suitable for bidding and construction and shall include sections on:

- Sand Dredge Pump
- Piping
- Valves and Fittings
- Suction Line Boom
- Bridge Crane

**Task 4.4 – Opinion of Probable Construction Cost**

PK Inc. shall prepare an opinion of probable construction cost for the pumping system and its mechanical auxiliaries. Where sufficient detail is available, costs shall be broken down into quantity takeoffs, unit costs, and all mark-ups applied. PK Inc. shall review unit costs of previously constructed projects, local construction market factors, and other information such as quotes from consultants and suppliers. An appropriate contingency, developed in consultation with the BDA Inc., shall be applied.

South LW Sand Pumping Facility

2/15/08

**Task 4.5 - Construction Management Services**

**Bid and Award Phase Support:** The bid and award phase support shall include:

- Attendance pre-bid meeting
- Addenda preparation
- Bid evaluation and recommendations

**Construction Contract S&A:** The construction support services shall include:

- Attendance at pre-work meeting
- Attendance at progress meetings as required
- Attendance at coordination meetings as required
- General administration and correspondence
- Daily inspection during mechanical installations
- Engineer's inspection
- Change order review
- Compliance submittal review
- As-built drawing review

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South LW Sand Pumping Facility

2/15/08

**5.0 - DELIVERABLE AND PAYMENT SCHEDULE**

<b>Deliverable</b>	<b>Due Date</b>	<b>Amount</b>
<b>4.1 Preliminary Design - Basis of Design Report (BODR)</b>	<b>14 days after NTP</b>	<b>\$10,230</b>
<b>4.2 Mechanical Design</b>	<b>30 days after BODR review</b>	<b>\$34,100</b>
<b>4.3 Preliminary Contract Documents</b>	<b>60 days after BODR review</b>	
<b>4.3 Final Contract Documents</b>	<b>14 days after receipt of review comments</b>	<b>\$21,649</b>
<b>4.4 Opinion of Cost</b>	<b>60 days after BODR review</b>	<b>\$4,133</b>
<b>4.5 CM Services</b>	<b>480 day construction duration</b>	<b>\$35,121</b>
<b>Total</b>		<b>\$105,233</b>

*Buy/SOA  
3/19/08*

*24*



**ATTACHMENT C**

**SCHEDULE #1**

**LIST OR PROPOSED SBE-M/WBE PRIME/SUBCONTRACTORS**

PROJECT NAME: S. Lake Worth Inlet Sand Transfer Pump PROJECT NUMBER: \_\_\_\_\_

NAME OF PRIME BIDDER: Bridge Design Associates, Inc. ADDRESS: 1402 Royal Palm Beach Blvd.  
Bldg 200  
Royal Palm Beach, Fl.33411

CONTACT PERSON: Brian C. Rheault, P.E. PHONE NO: 561-686-3660 FAX NO.: 561-791-1995

BID OPENING DATE: \_\_\_\_\_ DEPARTMENT: \_\_\_\_\_

**PLEASE IDENTIFY ALL APPLICABLE CATEGORIES**

Name, Address and Telephone Number of Minority Contractor	(Check one or both Categories)		Black	Hispanic	Dollar Amount		
	Minority Business	Small Business			Women	Caucasian	Other (Specify)
Bridge Design Associates, Inc.		X	\$	\$	\$	\$171,499.50	\$
Smith Engineering Consultants, Inc.		X	\$	\$	\$	\$ 78,940.00	\$
Powell Kugler, Inc.		X	\$	\$	\$	\$105,233.00	\$
			\$	\$	\$	\$	\$
			\$	\$	\$	\$	\$
			\$	\$	\$	\$	\$
<b>PRIME CONTRACTOR TO COMPLETE</b>	<b>TOTAL</b>		\$	\$	\$	\$	\$
<b>BID PRICE</b>	Total Value of SBE Participation		\$355,672.50				

- NOTE:
1. The amount listed on this form for a Subcontractor must be supported by price or percentage on Schedule 2 or a proposal from each Subcontractor listed in order to be counted toward goal attainment.
  2. Firms may be certified by Palm Beach County as an SBE and/or an M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount under the appropriate category.
  3. M/WBE information is being collected for tracking purposes only.

**LETTER OF INTENT TO PERFORM AS AN  
SBE, M/WBE AND/OR SUB-CONSULTANT**

TO: Palm Beach County ERM  
(NAME OF PRIME CONSULTANT)

2300 N. Jog Road, West Palm Beach, Florida 3341133411

(ADDRESS)

*Note: If Prime is an SBE or M/WBE, address Letter of Intent to "Palm Beach County."*

CONTACT PERSON & TITLE:

FROM: Bridge Design Associates, Inc.  
SUB-CONSULTANT (Prime if SBE or M/WBE)

1402 Royal Palm Beach Boulevard, Building 200, Royal Palm Beach, Florida 33411

(ADDRESS)

561-686-3660

(TELEPHONE No.)

561-791-1995

(FAX No.)

CONTACT PERSON: Mr. Brian C. Rheault, P.E.

TITLE: President EMAIL: bridgebbd@aol.com

The undersigned intend to perform work in connection with the above project as (check one):  
an individual  a corporation  a partnership  a joint venture

B. PALM BEACH COUNTY CERTIFIED SBE OR M/WBE \* :  YES  NO *If YES, Check all that apply:*

\* MBE:  BL  H  WBE  O(Other)

\* SBE:  BL  H  WBE  O(Other)  White Male

\* ATTACH APPLICABLE COPY OF NOTICE OF PALM BEACH COUNTY SBE OR M/WBE CERTIFICATION

The undersigned is prepared to perform the following described work in connection with the project (specify in detail, particular work items or parts thereof to be performed by the sub-consultant) or Prime if SBE or M/WBE:

1. Activity Provided: Structural (Bridge) Services

2. \*\* SUB-CONSULTANT'S "TOTAL PARTICIPATION" FOR THIS PROJECT : 48.2%

*NOTE: Line 2 shall be the ACTUAL % of Total Project, NOT 100%.*

The undersigned will enter into a formal agreement for the described work with the above-named prime consultant upon an executed agreement with Palm Beach County.

\*\* Prime's information if an SBE or M/WBE.

PROJECT: South Lake Worth Inlet Sand Transfer Plant PROJECT NO.:

BRIDGE DESIGN ASSOCIATES, INC.

NAME OF SUB-CONSULTANT FIRM (PRIME if SBE or M/WBE)

Brian C. Rheault, P.E., President

(PRINT) - NAME & TITLE OF AUTHORIZED REPRESENTATIVE

BY:

B. Rheault  
(SIGNATURE OF AUTHORIZED REPRESENTATIVE)

03/04/08

(DATE)

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**PALM BEACH COUNTY  
OFFICE OF SMALL BUSINESS ASSISTANCE**

CERTIFIES THAT

**BRIDGE DESIGN ASSOCIATES, INC.**

VENDOR # BRID0003

*is a Small Business Enterprise as prescribed by section 2-80.21 – 2-80.35 of the Palm Beach  
County Code for a three year period from October 24, 2007 to October 23, 2010.*

The following Services and/or Products are covered under this certification:

**Engineering Consulting Services  
Engineering Services, Structural**

**Palm Beach County Board of County Commissioners**

Addie L. Greene, Chairperson  
Jeff Koons, Vice Chair  
Karen T. Marcus  
Mary McCarty  
Burt Aaronson  
Jess R. Santamaria  
Robert J. Kanjian  
County Administrator  
Robert Weisman  
Deputy County Administrator  
Verdenia C. Baker

*Hazel Oxendine*  
Hazel Oxendine, Director



**LETTER OF INTENT TO PERFORM AS AN  
SBE, M/WBE AND/OR SUB-CONSULTANT**

TO: BRIDGE DESIGN ASSOCIATES, INC.  
(NAME OF PRIME CONSULTANT)

1402 Royal Palm Beach Blvd., Building 200, Royal Palm Beach, Florida 33411  
(ADDRESS)

*Note: If Prime is an SBE or M/WBE, address Letter of Intent to "Palm Beach County."*

CONTACT PERSON & TITLE:

FROM: Powell Kugler, Inc.  
SUB-CONSULTANT (Prime if SBE or M/WBE)

500 S. Australian Avenue, Suite 600, West Palm Beach, Florida 33401  
(ADDRESS)

561-820-4891 561-651-4141  
(TELEPHONE No.) (FAX No.)

CONTACT PERSON: Mr. Victor A. Powell, P.E.

TITLE: President EMAIL: powellkugler@hotmail.com

The undersigned intend to perform work in connection with the above project as (check one):  
an individual  a corporation  a partnership  a joint venture

B. PALM BEACH COUNTY CERTIFIED SBE OR M/WBE \* :  YES  NO *If YES, Check all that apply:*

\* MBE:  BL  H  WBE  O(Other)

\* SBE:  BL  H  WBE  O(Other)  White Male

\* ATTACH APPLICABLE COPY OF NOTICE OF PALM BEACH COUNTY SBE OR M/WBE CERTIFICATION

The undersigned is prepared to perform the following described work in connection with the project (specify in detail, particular work items or parts thereof to be performed by the sub-consultant) or Prime if SBE or M/WBE:

1. Activity Provided: Mechanical Engineering

2. \*\* SUB-CONSULTANT'S "TOTAL PARTICIPATION" FOR THIS PROJECT : 29.6 %

*NOTE: Line 2 shall be the ACTUAL % of Total Project, NOT 100%.*

The undersigned will enter into a formal agreement for the described work with the above-named prime consultant upon an executed agreement with Palm Beach County.

\*\* Prime's information if an SBE or M/WBE.

PROJECT: South Lake Worth Inlet Sand Transfer Station PROJECT NO.:

POWELL KUGLER, INC.  
NAME OF SUB-CONSULTANT FIRM (PRIME if SBE or M/WBE)

Victor A. Powell, P.E., President  
(PRINT - NAME & TITLE OF AUTHORIZED REPRESENTATIVE)

BY:  3/7/08  
(SIGNATURE OF AUTHORIZED REPRESENTATIVE) (DATE)

**PALM BEACH COUNTY  
OFFICE OF SMALL BUSINESS ASSISTANCE**

CERTIFIES THAT

**POWELL KUGLER, INC.**

VENDOR #VC0000014551

*is a Small/Minority Business Enterprise as prescribed by Section 2-80.21 - 2-80.34 of the Palm Beach County Code for a three year period from April 19, 2005 to April 18, 2008.*

The following Services and/or Products are covered under this certification:

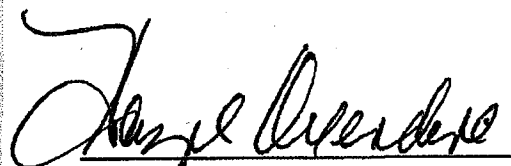
**Professional Engineering Services**

**Palm Beach County Board of County Commissioners**

Tony Masilotti, Chairman  
Addie L. Greene, Vice Chairperson  
Karen T. Marcus  
Jeff Koons  
Warren H. Newell  
Mary McCarty  
Burt Aaronson

**County Administrator**

Robert Weisman  
**Deputy County Administration**  
Verdenia C. Baker

  
Hazel Oxendine, Director



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**LETTER OF INTENT TO PERFORM AS AN  
SBE, M/WBE AND/OR SUB-CONSULTANT**

TO: BRIDGE DESIGN ASSOCIATES, INC.  
(NAME OF PRIME CONSULTANT)

1402 Royal Palm Beach Blvd., Building 200, Royal Palm Beach, Florida 33411  
(ADDRESS)

*Note: If Prime is an SBE or M/WBE, address Letter of Intent to "Palm Beach County."*

**CONTACT PERSON & TITLE:**

FROM: Smith Consulting Engineering, Inc.  
SUB-CONSULTANT (Prime if SBE or M/WBE)

2161 Palm Beach Lakes Blvd., Suite 312, West Palm Beach, Florida 33409  
(ADDRESS)

561-616-3911  
(TELEPHONE No.)

561-616-3912  
(FAX No.)

CONTACT PERSON: Mr. Larry M. Smith, P.E.

TITLE: President EMAIL: lsmith@aol.com

The undersigned intend to perform work in connection with the above project as (check one):  
an individual  a corporation  a partnership  a joint venture

B. PALM BEACH COUNTY CERTIFIED SBE OR M/WBE \* :  YES  NO *IF YES, Check all that apply:*

\* MBE:  BL  H  WBE  O(Other)

\* SBE:  BL  H  WBE  O(Other)  White Male

\* ATTACH APPLICABLE COPY OF NOTICE OF PALM BEACH COUNTY SBE OR M/WBE CERTIFICATION

The undersigned is prepared to perform the following described work in connection with the project (specify in detail, particular work items or parts thereof to be performed by the sub-consultant) or Prime if SBE or M/WBE:

1. Activity Provided: Electrical Engineering Services

2. \*\* SUB-CONSULTANT'S "TOTAL PARTICIPATION" FOR THIS PROJECT : 22.2 %

*NOTE: Line 2 shall be the ACTUAL % of Total Project, NOT 100%.*

The undersigned will enter into a formal agreement for the described work with the above-named prime consultant upon an executed agreement with Palm Beach County.

\*\* Prime's information if an SBE or M/WBE.

PROJECT: South Lake Worth Inlet Sand Transfer Station PROJECT NO.:

SMITH CONSULTING ENGINEERING, INC.  
NAME OF SUB-CONSULTANT FIRM (PRIME if SBE or M/WBE)

Larry M. Smith, P.E., President  
(PRINT - NAME & TITLE OF AUTHORIZED REPRESENTATIVE)

BY:

  
(SIGNATURE OF AUTHORIZED REPRESENTATIVE)

3-4-08  
(DATE)

**PALM BEACH COUNTY**  
**OFFICE OF SMALL BUSINESS ASSISTANCE**  
CERTIFIES THAT

**SMITH ENGINEERING CONSULTANTS, INC.**  
VENDOR #SMIT0174

*is a Small Business Enterprise as prescribed by section 2-80.21 – 2-80.34 of the Palm Beach  
County Code for a three year period from October 20, 2006 to October 19, 2009.*

The following Services and/or Products are covered under this certification:

**Electrical Engineers**  
**Engineering Services, Professional**  
**Consulting Engineers**  
**Mechanical Engineers**

  
Hazel Oxendine, Director



**Palm Beach County Board of County Commissioners**  
Tony Mastrom, Chairman  
Adele L. George, Vice-Chairperson  
Karen T. Marcus  
Jeff Koops  
Warren H. Newell  
Mary McCarty  
Ben Aaronsen  
**County Administrator**  
Robert W. Coonan  
**Deputy County Administrator**  
Veronica C. Bate

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**BRIDGE DESIGN ASSOCIATES, INC.**

**South Lake Worth Inlet Sand Transfer Plant Utility Trench  
and Jetty Rehabilitation and new seawall for Bird Island**

**March 6, 2008**

**PROJECT SCHEDULE**

**Powell Kugler Schedule**

<b>Preliminary Design Report</b>	<b>14 days after Notice to Proceed</b>
<b>Palm Beach County Review</b>	<b>16 days</b>
<b>Mechanical Design &amp; Preliminary Contract Documents &amp; opinion of probable cost</b>	<b>60 days following review of Preliminary Design Report</b>
<b>Palm Beach County Review</b>	<b>16 days</b>
<b>Final Design</b>	<b>14 days following review comments received</b>
	<b>120 days</b>

**Smith Consulting Engineers, Inc. and Bridge Design Associates, Inc. will also meet the design schedule**



**ERM CONTRACT HISTORY**  
**Bridge Design Associates, Inc.**  
**Consultant for Structural Engineering Services**

Contract R2008-0159 dated Feb. 5, 2008 expiring on Feb. 4, 2009

SBE Goal 100% (100% SBE/White)

Task order summary:

ERM TASK NUMBER	TOTAL/ SBE MWBE AMOUNT	TASK DUE DATE	TASK DESCRIPTION	APPROVED BY/DATE
ERM08-01	\$10,128.00 \$10,128.00	4/12/08	Loxahatchee Slough Pedestrian Bridge over C-18	ERM 03/11/08
ERM08-03	\$355,672.50 \$355,672.50	8/13/08	Design Mods to SLWI Sand Transfer Plant & Utility Trench; Jetty Rehab; new Bird Isl Seawall	BCC

Total: 365,800.50

SBE-MBE: 365,800.50

SBE-MBE Participation: 100.0%

Report Date & Filename: 03/19/08

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R 2008 0159

ATTACHMENT 2

STANDARD FORM OF AGREEMENT  
BETWEEN  
PALM BEACH COUNTY AND CONSULTANT  
FOR  
PROFESSIONAL SERVICES

This is an Agreement made as of FEB 0 5 2008, 2008 between Palm Beach County, Florida (COUNTY) and Bridge Design Associates, Inc. (ANNUAL CONSULTANT), an engineering firm having an office and a place of business at 1402 Royal Palm Beach Boulevard, Building 200, Royal Palm Beach, Florida 33411, and having Federal Tax I.D. #65-0030131. The COUNTY intends to have the ANNUAL CONSULTANT provide structural engineering services required for County User Departments, on an as needed basis (hereinafter called the PROJECT).

The COUNTY and ANNUAL CONSULTANT in consideration of their mutual covenants herein agree in respect of the performance of professional structural engineering services by ANNUAL CONSULTANT and the payment for those services by COUNTY as set forth below.

SECTION 1 - BASIC SERVICES OF ANNUAL CONSULTANT

1.1 General

1.1.1 The ANNUAL CONSULTANT shall perform professional design services in connection with the PROJECT as hereinafter stated which shall include normal structural engineering services, more particularly described in Exhibit "A" (Scope of Services).

1.1.2 The ANNUAL CONSULTANT shall prepare all plans in accordance with Palm Beach County Thoroughfare Design Procedures, current standards adopted by AASHTO, and the Florida Department of Transportation Manual of Uniform Minimum Standards, and all other applicable professional and technical standards. Plans shall be based on the North American Datum of 1983 (NAD 83) 1990 Adjustment and the North American Vertical Datum of 1988 (NAVD 88). They shall be accurate, legible, complete in design, drawn to scale, and shall be suitable for bidding purposes, unless otherwise stated in Exhibit "A".

1.1.3 The ANNUAL CONSULTANT has, during the selection and negotiation process which has preceded this agreement, represented to the COUNTY that the ANNUAL CONSULTANT is possessed of that level of skill, knowledge, experience and expertise that is commensurate with engineering firms of national repute in the areas of practice required for this project. The ANNUAL CONSULTANT acknowledges that the COUNTY has relied on the ANNUAL CONSULTANT'S representations of skill, knowledge, experience and expertise. By executing this contract, the ANNUAL CONSULTANT agrees that the ANNUAL CONSULTANT will exercise that degree of care, knowledge, skill and ability as other engineering firms possessing the degree of skill, knowledge, experience and expertise which the ANNUAL CONSULTANT has claimed. The ANNUAL CONSULTANT shall perform such duties as may be assigned without neglect. The ANNUAL CONSULTANT accepts the relationship of trust and confidence established by this Agreement, and covenants with the COUNTY to cooperate with the COUNTY and to utilize the ANNUAL CONSULTANT'S skill, efforts and judgment commensurate with engineering firms of national repute in the areas of practice required for this project. The ANNUAL CONSULTANT agrees to perform each assignment in an efficient and economical manner consistent with the COUNTY'S interests and consistent with the COUNTY'S stated objectives and recognized professional engineering standards.

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IN WITNESS WHEREOF, the parties have made and executed this Agreement as of the day and year first above written.

OWNER: **R200800159**  
**Palm Beach County, Florida** **FEB 05 2008**  
BY ITS BOARD OF COMMISSIONERS:

ANNUAL CONSULTANT:  
**Bridge Design Associates, Inc.**

BY: *Addie L. Greene*  
Addie L. Greene, Chairperson

BY: *[Signature]*  
Brian C. Rheault, P.E., President

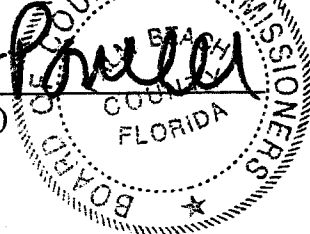
SEAL

CORPORATE SEAL

ATTEST:  
Sharon R. Bock, Clerk & Comptroller  
Circuit Court

ATTEST WITNESS:

BY: *J Tracy Powell*  
(Deputy Clerk)



BY: KIM E. DROGGOS  
(Print Name)

*Kim E. Droggos*  
(Signature)

APPROVED AS TO TERMS  
AND CONDITIONS:

BY: TIM SHERWOOD  
(Print Name)

BY: *[Signature]*

*[Signature]*  
(Signature)

APPROVED AS TO FORM &  
LEGAL SUFFICIENCY:

BY: *Paul F. [Signature]*  
Assistant County Attorney

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**EXHIBIT "B"**

**PALM BEACH COUNTY ANNUAL STRUCTURAL CONTRACT  
Task Order Basis - Fee Schedule**

**FIRM:**

**BRIDGE DESIGN ASSOCIATES, INC.**

1402 Royal Palm Beach Blvd., Building 200  
Royal Palm Beach, Florida 33411  
Contact: Brian C. Rheault

email: [bridgebbd@aol.com](mailto:bridgebbd@aol.com)  
Phone: (561) 686-3660 Fax: (561) 791-1995

Fee Schedule - Fiscal Year 2008		
<b>Firm Name</b>	<b>BRIDGE DESIGN ASSOCIATES, INC.</b>	
	<b>Raw Rate</b>	<b>*Burdened Rate</b>
Chief Engineer / BCR	65.00	195.00
Senior Engineer / JCH - JEM	50.00	150.00
Engineering Intern / TAD - LAK - CBL	25.00	75.00
Engineering Technician / TSS	22.00	66.00
CADD / Computer Technician	31.00	93.00

**Multiplier:**

Salary	1.00
Overhead & Fringe Subtotal	<u>3.00</u> 3.00
0% Profit	<u>0.00</u>
<b>TOTAL</b>	<b>3.00</b>

**Sub-Consultants** N/A

Bridge Design Associates, Inc. will provide "Additional Services, as Authorized and Approved by the Owner, Palm Beach County".

*Handwritten initials*