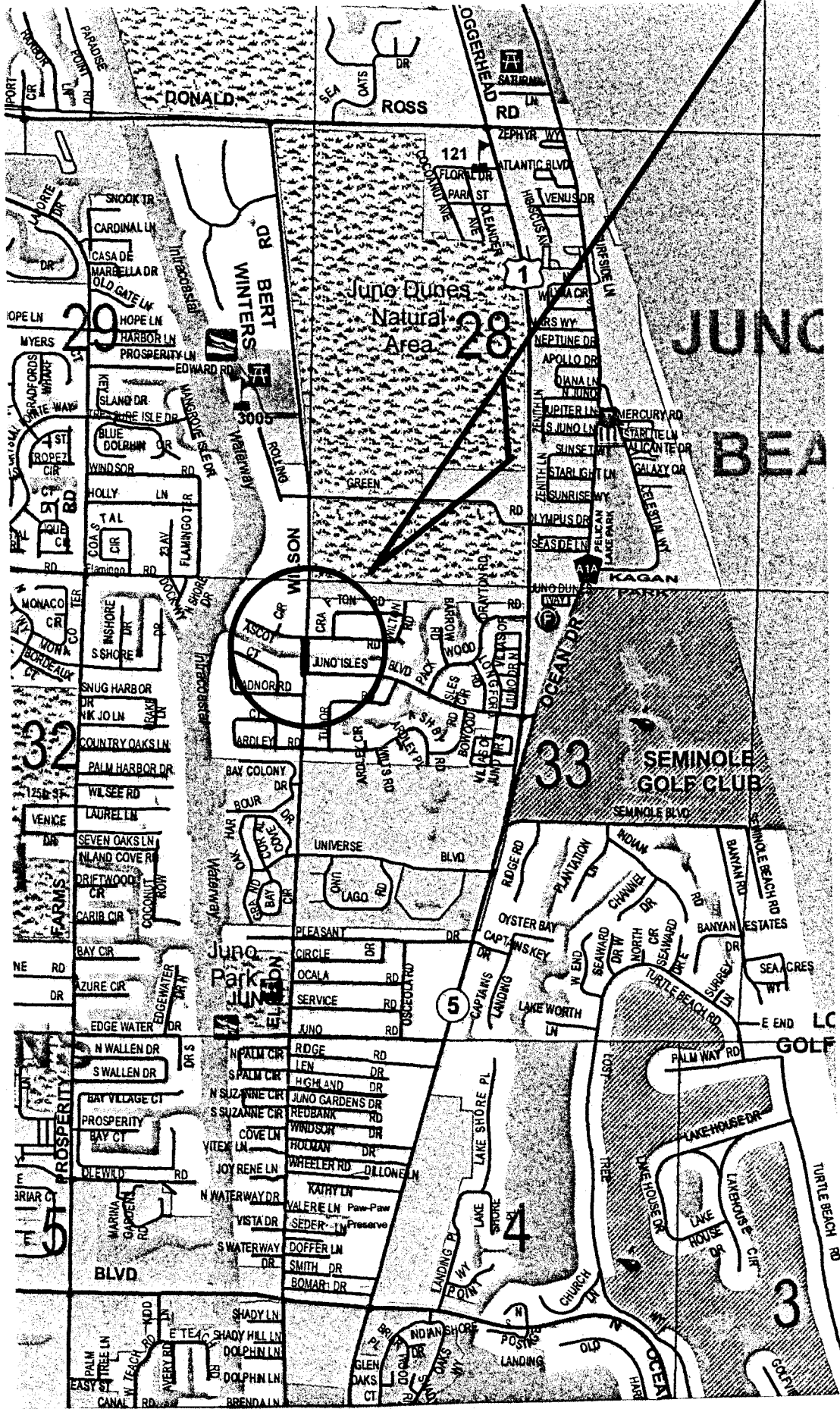


Ellison Wilson Road
S. of Juno Isles Boulevard to N. of Ascot Road
Palm Beach County Project No. 2013521



LOCATION MAP

ATTACHMENT 2

WORK TASK ORDER TO ANNUAL AGREEMENT BETWEEN

**PALM BEACH COUNTY
AND
BRIDGE DESIGN ASSOCIATES, INC.**

FOR PROFESSIONAL ENGINEERING SERVICES ON

**ELLISON WILSON ROAD
S. OF JUNO ISLES BOULEVARD TO N. OF ASCOT ROAD**

**PROJECT NO.: 2013521
PALM BEACH COUNTY, FLORIDA**

THIS WORK TASK ORDER TO THE ANNUAL AGREEMENT, made and entered into this day of _____ 2013 by and between Palm Beach County, hereinafter called the **COUNTY**, and Bridge Design Associates, Inc., a Florida Corporation with an address of 1402 Royal Palm Beach Boulevard, Building 200, Royal Palm Beach, Florida 33411, hereinafter called the **CONSULTANT**.

WITNESSETH

WHEREAS, the **COUNTY** and **CONSULTANT** entered into an Annual Agreement for Structural Engineering Services on a task order basis on February 15, 2011 (R2011-0174).

WHEREAS, the **COUNTY** desires the **CONSULTANT** to perform structural engineering services for Ellison Wilson Road from S. of Juno Isles Boulevard to N. of Ascot Road, Palm Beach County, Florida (hereinafter called the **PROJECT**); and,

WHEREAS, the **CONSULTANT** agrees to perform the structural engineering services required for preparing design plans and construction bid documents, including related documents for the **PROJECT**; and,

**Re: Ellison Wilson Road from S. of Juno Isles Boulevard to N. of Ascot Road
Project No.: 2013521**

WHEREAS, the following fee has been negotiated and found to be reasonable compensation for these professional services to be performed by the **CONSULTANT**:

Basic Services in a lump sum fee of \$126,443.76;

Reimbursable Expenses capped at \$42,199.35;

Optional Services capped at \$8,025.00

Totaling \$176,668.11

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in consideration of the mutual benefits to flow from each to the other, the parties hereto agree as follows:

1. The **CONSULTANT** agrees to provide professional services as described in Exhibit "A" of the Work Task Order known as "SCOPE OF WORK & FEE".
2. The **CONSULTANT** agrees to "CERTIFICATION" statements as described in Exhibit "B" of the Work Task Order.
3. The **CONSULTANT** agrees to Small Business Enterprise (SBE) Participation, described in Exhibit "C" of the Work Task Order.
4. The **CONSULTANT** has provided a sub-consultant Letter of Intent to perform as an SBE as described in Exhibit "D" of the Work Task Order.
5. The **COUNTY** agrees to pay the **CONSULTANT** a fee of One Hundred Seventy-Six Thousand Six Hundred Sixty-Eight Dollars and Eleven Cents (\$176,668.11).

Except as hereby amended, changed or modified, all other terms, conditions and obligations of the Agreement dated **February 15, 2011 (R2011-0174)**, shall remain in full force and effect.

Re: Ellison Wilson Road from S. of Juno Isles Boulevard to N. of Ascot Road
Project No.: 2013521

IN WITNESS WHEREOF, the parties hereto have made and executed this Work Task Order
as of the day and year first above written.

OWNER:

Palm Beach County, Florida, a
Political Subdivision of the
State of Florida

BOARD OF COUNTY COMMISSIONERS

BY: _____
Steven L. Abrams, Mayor

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

BY: _____
Deputy Clerk

SEAL

APPROVED AS TO TERMS
AND CONDITIONS:

BY: 924 *Ornela A. Fermin*

APPROVED AS TO FORM & LEGAL
SUFFICIENCY:

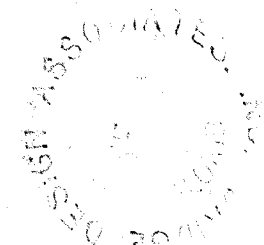
COUNTY ATTORNEY

CONSULTANT:

Bridge Design Associates, Inc.
a Florida Corporation

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

CORPORATE SEAL



WITNESS:

BY: *Kim E. Droggos*

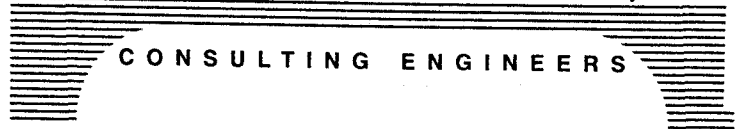
KIM E. DROGGOS
(Printed Name)

BY: *Madeline Szewal*

Madeline Szewal
(Printed Name)

EXHIBIT "A"

BRIDGE DESIGN ASSOCIATES, INC.



REC'D MAY 06 2013

Exhibit "A" - Page 1 of 37

BRIAN C. RHEULT, P.E.
President

May 3, 2013

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

Attention: Dave Young, P.E.

Regarding: Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.
PBC # 2013521 S. Of Juno Isles Blvd. to N. of Ascott Road

Dear Dave:

Pursuant to your request we have reviewed the available information and based on the County's decision to close the road and bridge for construction we have developed the following scope of services.

- Survey of the site from 600 feet south of Juno Isles Blvd. To 1000 feet north of Ascott Road.
- Soils investigation including SPT's for the bridge replacement, pavement samples and permeability tests and asbestos testing of the bridge components.
- Roadway design based on a 40 mph design speed to provide (3) traffic lanes from south of Juno Isles Blvd. to north of the proposed entrance at The Preserve at Juno north of Ascott Road.

The (3) lane section will include sidewalks on both sides, a 12'-0 multi-directional center lane, two 12'-0 lanes and 4'-0 foot paved shoulder on the each side.

Scope & Fee OK.

HBK 5/24

Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.
Page 2

ROADWAY & BRIDGE DESIGN

- The bridge replacement will accommodate the (3) lane section described above. The bridge will be designed as a 3 span structure meeting the low member and minimum span requirements dictated by U.S Coast Guard, SFWMD and NPBCID.

The surface of the bridge deck will have an asphalt wearing surface.

A 42" traffic barrier wall height will be utilized with aluminum handrails. We propose to use the Index 410 Traffic Barrier Walls at all 4 corners of the bridge to eliminate the need for metal guard railing.

- The bridge will be reduced in length from 75 foot to approximately 55'-0 to match the eastern portion of the canal. The low member of the bridge will be raised approximately 18", if possible.
- Turn lanes will be provided as follows:
 - south and northbound at Ascott Road
 - southbound left turn lane at Juno Isles Blvd.
- (4) 3" diameter utility ducts will be placed in the sidewalks for communication cable as necessary.
- Utility coordination meetings, including plan sets to utility companies
- ✓ Permitting. Permitting fees are to be a reimbursable expense.
- Construction Phase Services, including bidding, shop drawing reviews and site inspections

The following services are not included in our scope of services:

Utility relocation plans
Traffic control plans

The new bridge will be designed to meet current AASHTO and FDOT criteria loads including all Florida Legal Loads and Permit Vehicle loading.

Prestressed concrete piling, concrete pile caps and prestressed concrete flat slab deck units will be utilized for the project. Sidewalk and traffic barriers will meet or exceed the traffic safety and ADA standards and safe sight distances will be utilized. Sidewalks will be provided for both sides of the bridge.

Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.
Page 3

Drainage from the new bridge will be collected and treated to provide water quality and meet current criteria as defined by Palm Beach County and South Florida Water Management District and NPBCID.

The design team will prepare and submit the applicable permit applications to ACOE, US Coast Guard, DEP, SFWMD and NPBCID and coordinate with the utility companies to determine relocation requirements for overhead lines and potential conduits in the bridge for future lines.

Design shall be in accordance with Palm Beach County thoroughfare Road Design Procedures, February 2006; FDOT Greenbook Standard, applicable FDOT Indexes and FDOT Standard Specifications for Road and Bridge Construction.

Finally, the existing roadway will be modified to transition the new bridge to the existing roadway north and south of the bridge.

The attached Exhibit "A" is an approximate manhour estimate of tasks with commensurate fees. Exhibit "B" details the tasks to be completed at each phase and Exhibit "C" is our proposed design schedule and a list of deliverables.

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

Respectfully

BRIDGE DESIGN ASSOCIATES, INC.



Brian C. Rheault, P.E., #38797
President

Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.

BASIC SERVICES

Bridge Design Associates, Inc.

Total Staff hours 806 hours

STAFF	RATES	HOURS	COST
Chief Engineer	\$195.00	80	\$ 15,600.00
Senior Engineer	\$150.00	160	\$ 24,000.00
Engineer / Engineer Intern	\$75.00	326	\$ 24,450.00
Engineering Technician	\$66.00	0	\$ 0.00
Cadd /Computer Technician	\$93.00	240	\$ 22,320.00
		806	\$ 86,370.00

Arcadis

3.0 multiplier

✓ \$ 40,073.76

REIMBURSABLES

Permit Fees (SFWMMD \$3,500.00 DEP \$1,500.00) ✓ \$ 5,000.00

Dunkelberger Engineering & Testing (soils) ✓ \$ 11,025.35

Brown & Phillips ✓ \$ 16,184.00

Isiminger & Stubbs, Inc. (Environmental Permitting) ✓ \$ 9,990.00

Construction Phase Services (Optional) Hourly NTE ✓ \$ 8,025.00

PROJECT TOTAL ✓ \$176,668.11

Exhibit "A" - Page 5 of 37

(h) Environmental Resource Permits. For individual, conceptual approval or standard general permit applications under Part IV of Chapter 373, F.S., that involve a combination of the fee categories listed in subparagraphs 1. and 2. below, the highest fee in these subparagraphs that applies to the project in question shall be the correct application fee.

1. Individual and Conceptual Approval Permits (those systems that involve 1 acre or more of construction or alteration in, on or over wetlands or other surface waters, involve 10 or more new boat slips, are capable of impounding more than 120 acre feet, serve a total land area of 100 acres or more, or provide for the placement of 12 acres or more of impervious surface):

a. For a system that involves less than 1 acre of construction or alteration in, on or over wetlands or other surface waters and involves less than 10 new boat slips but reaches any of the following three thresholds:

- (I) Is capable of impounding more than 120 acre feet;
- (II) Serves a total land area of 100 acres or more; or
- (III) Provides for the placement of 12 acres or more of impervious surface \$3,510

b. For a system involving the following total acreage of construction or alteration in, on or over wetlands or other surface waters:

- (I) 100 acres or more \$14,020
- (II) 50 acres up to less than 100 acres \$11,220
- (III) 10 acres up to less than 50 acres \$9,120
- (IV) 5 acres up to less than 10 acres \$7,710
- (V) 2 acres up to less than 5 acres \$5,610
- (VI) 1 acre up to less than 2 acres \$4,210

c. For a system involving 10 or more new boat slips and either capable of impounding 40 acre feet or more, serving a total land area 40 acres or more, providing for the placement of 12 acres or more of impervious surface, or involving construction or alteration (other than new boat slips) in, on or over wetlands or other surface waters, with the following number of new slips:

- (I) 50 or more \$9,120
- (II) 30 to 49 \$7,710
- (III) 10 to 29 \$5,610

d. For a system involving 10 or more new boat slips and capable of impounding less than 40 acre feet, serving a total land area less than 40 acres, providing for the placement of less than 12 acres of impervious surface, and not involving construction or alteration (other than new boat slips) in, on or over wetlands or other surface waters, with the following number of new slips:

- (I) 50 or more \$5,610
- (II) 30 to 49 \$4,210
- (III) 10 to 29 \$2,110

e. For a system involving a new Class I solid waste disposal facility \$10,520

f. Major modification of an existing Class I solid waste disposal facility \$11,920

g. Systems solely for environmental restoration or enhancement activities, provided such activities are not associated with a mitigation bank and are not being implemented as mitigation for other activities that require a permit under Part IV of Chapter 373, F.S. \$250

2. Standard Permits and Standard General Permits (those systems below the thresholds listed in subparagraph 1. above):

a. For a system serving a project with a total land area of 40 or more acres, up to 100 acres, with the following additional activities:

- (I) Both the construction of 1 to 9 new boat slips and the construction or alteration (other than new boat slips) in, on or over a total area of wetlands or other surface waters less than 1 acre and more than 0 acre \$2,110
- (II) Either the construction of 1 to 9 new boat slips or the construction or alteration (other than new boat slips) in, on or over a total area of wetlands or other surface waters less than 1 acre and more than 0 acre \$1,410
- (III) No construction or alteration in, on or over wetlands or other surface waters \$1,340

b. For a system serving a project with a total land area less than 40 acres and more than 1 acre, with the following additional activities:

- (I) 3 to 9 new boat slips \$990

Exhibit "A" - Page 6 of 37

(II) 1 to 2 new boat slips	\$850
(III) Construction or alteration (other than new boat slips) in, on or over a total area of wetlands or other surface waters of more than 0 acre, but less than 1 acre	\$850
c. For a system serving a project with a total land area of less than 1 acre, with the following additional activities:	
(I) 3 to 9 new boat slips	\$850
(II) 1 to 2 new boat slips	\$430
(III) Construction or alteration (other than new boat slips) in, on or over a total area of wetlands or other surface waters less than 1 acre and more than 0 acre	\$710
d. Systems solely for environmental restoration or enhancement activities, provided such activities are not associated with a mitigation bank and are not being implemented as mitigation for other activities that require a permit under Part IV of Chapter 373, F.S.	\$250
3. Mitigation Banks	
a. Mitigation Bank Permit, other than Conceptual Approval	\$6,050
b. Credit Release (credit available for sale)	\$330
c. Credit Withdrawal (actual use of credit)	\$0
d. Mitigation Bank Conceptual Approval Permit	\$6,050
e. Major modifications involving changes to one or more of the following components: service area; credit assessment; success or release criteria; hydrologic structures or alterations; constructions or mitigation design that does not increase the project area; elimination of lands; or monitoring or management plans;	
(I) Affecting one of the above components	\$1,340
(II) Affecting two of the above components	\$2,680
(III) Affecting three of the above components	\$4,020
4. Environmental Resource "Stormwater" Permit for a system serving a project with a total land area less than 40 acres and:	
a. Involving no construction or alteration in, on or over wetlands or other surface waters; or	\$420
b. That is solely for environmental restoration or enhancement activities, provided such activities are not associated with a mitigation bank and are not being implemented as mitigation for other activities that require a permit under Part IV of Chapter 373, F.S.	\$250
5. Verification of qualification to use a Noticed General Permit, except	\$250
a. Paving of existing county or municipally owned roads under Rule 62-341.448, F.A.C.	\$0
b. Environmental enhancement and restoration activities conducted by the U.S. Army Corps of Engineers under Rule 62-341.486, F.A.C.	\$0

BRIDGE DESIGN ASSOCIATES, INC.

Exhibit "A" - Page 7 of 37

ELLISON WILSON BRIDGE REPLACEMENT OVER CANAL NORTH OF JUNO ISLES BLVD.
CONSTRUCTION PHASE SERVICES
June 11, 2013

HOURLY BREAKDOWN OF SERVICES

ACTIVITY	CHIEF ENGINEER	SENIOR ENGINEER	ENGINEER INTERN	ENGINEER TECHNICIAN	CAD TECHNICIAN	TOTAL HOURS BY ACTIVITY	LABOR COST BY ACTIVITY
	✓ \$195.00	✓ \$150.00	✓ \$75.00	✓ \$66.00	✓ \$93.00		
Shop Drawing Reviews	10.0	8.0	20.0			38.0	\$4,650.00
Contractor RFI's	6.0	2.0	3.0			11.0	\$1,695.00
Concrete Mixes		1.0	2.0			3.0	\$300.00
Site Visits (4) as requested	4.0	4.0				8.0	\$1,380.00
						0.0	\$0.00
						0.0	\$0.00
						0.0	\$0.00
						0.0	\$0.00
TOTAL MANHOURS	✓ 20.0	✓ 15.0	✓ 25.0	0.0	0.0	✓ 60.0	
DIRECT LABOR COST	✓ \$3,900.00	✓ \$2,250.00	✓ \$1,875.00	\$0.00	\$0.00		✓ \$8,025.00

ENGINEERING FEES

✓ \$8,025.00

✓ 3.0 multiplier

Project Activity 9: Structures - Summary and Miscellaneous Tasks and Drawings

Estimator:

Purdy Lane Bridge over E-3 Canal
PBC 2013523

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
General Drawings											
9.1	Index of Drawings	Sheet	1	8	1	8					
9.2	Project Layout	Sheet	1	8	1	8					
9.3	General Notes and Bid Item Notes	Sheet	1	8	1	8					
9.4	Miscellaneous Common Details	Sheet	10	2	10	20					
9.5	Incorporate Report of Core Borings	Sheet	1	2	1	2					
9.6	Existing Bridge Plans	LS	1	4		4					
9.7	Assemble Computation Book and Quantities	LS	1	8		8					
9.8	Cost Estimate	LS	1	8		8					
9.9	Technical Special Provisions	LS	0	0		0					
Structures - Summary and Miscellaneous Tasks and Drawings Subtotal					✓ 14	✓ 66					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	740	0	0	740	0	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									
17	Retaining Walls	0								0	
18	Miscellaneous Structures	0									0
Structures Technical Subtotals		740	0	0	✓ 740	0	0	0	0	0	0

Exhibit "A" - Page 8 of 37

Project Activity 9: Structures - Summary and Miscellaneous Tasks and Drawings

Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments
9.10	Field Reviews	LS	1	0	0	
9.11	Technical Meetings	LS	1	0	0	Meetings are listed below
9.12	Quality Assurance/Quality Control	LS	%	0%	0	
9.13	Independent Peer Review	LS	%	0%	0	
9.14	Supervision	LS	%	0%	0	
Structures Nontechnical Subtotal					0	
9.15	Coordination	LS	%	0%	0	
Structures-Summary and Misc. Tasks and Drawings and Technical Totals					806	

Exhibit "A" - Page 9 of 37

Project Activity 12: Structures - Short Span Concrete Bridge

Estimator: PBC 2013521
 Bridge

Elison Wilson Bridge Replacement at Canal north of Juno Isles Blvd,

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
General Layout Design and Plans							
12.1	Overall Bridge Final Geometry	LS	1	8		8	
12.2	Expansion/Contraction Analysis	EA Unit	0	4		0	
12.3	General Plan and Elevation	Sheet	2	24	2	48	
12.4	Construction Staging	Sheet	0	0	0	0	
12.5	Approach Slab Plan and Details	Sheet	1	8	1	8	
12.6	Miscellaneous Details	Sheet	4	16	4	64	
End Bent Design and Plans							
12.7	End Bent Geometry	EA End Bent	2	8		16	
12.8	End Bent Structural Design	EA Design	2	16		32	
12.9	End Bent Plan and Elevation	Sheet	2	20	2	40	
12.10	End Bent Details	Sheet	2	12	2	24	
Intermediate Bent Design and Plans							
12.11	Bent Geometry	EA Bent	2	8		16	
12.12	Bent Stability Analysis	EA Analysis	1	16		16	
12.13	Bent Structural Design	EA Design	1	24		24	
12.14	Bent Plan and Elevation	Sheet	2	12	2	24	
12.15	Bent Details	Sheet	1	8	1	8	
Miscellaneous Substructure Design and Plans							
12.16	Foundation Layout	Sheet	1	12	1	12	

Exhibit "A" - Page 10 of 37

Project Activity 12: Structures - Short Span Concrete Bridge

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Miscellaneous Superstructure Design and Plans							
12.17	Finish Grade Elevation Calculation	LS	1	8		8	
12.18	Finish Grade Elevations	Sheet	1	12	1	12	
Cast-in-Place Slab Bridges							
12.19	Bridge Deck Design	EA Unit	0	0		0	
12.20	Superstructure Plan	Sheet	0	0	0	0	
12.21	Superstructure Sections and Details	Sheet	0	0	0	0	
Prestressed Slab Unit Bridges							
12.22	Prestressed Slab Unit Design	EA Design	6	16		96	
12.23	Prestressed Slab Unit Layout	Sheet	1	12	1	12	
12.24	Prestressed Slab Unit Details and Schedule	Sheet	6	24	6	144	
12.25	Deck Topping Reinforcing Layout	Sheet	0	0	0	0	
12.26	Superstructure Sections and Details	Sheet	2	12	2	24	
Reinforcing Bar List							
12.27	Preparation of Reinforcing Bar List	Sheet	1	8	1	8	
Load Rating							
12.28	Load Ratings	EA Unit	4	24		96	
12. Structures - Short Span Concrete Bridge Total					✓ 26	✓ 740	

Exhibit "A" - Page 11 of 37

Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.

- A. 35% Design Phase
1. Bridge plans including:
 - Bridge plan / elevation
 - Preliminary pile layout and foundation design
 - Preliminary profile grade
 - Bridge cross section
 - Proposed design standards identified
 - Utility coordination - utilities identified and conflicts determined
 - Preliminary drainage plan and drainage swale location and size identified
 2. Roadway plans including roadway layout
 3. Meeting with County staff to discuss
- B. 65% Submittal Phase
1. Geotechnical Report Submittal
 2. Utility Coordination
 3. ✓ Permit Applications Submitted
 3. Bridge plans and roadway plans per PBC Submittal requirements
- C. 96% Design Phase
1. Bridge plans and roadway plans including quantities and probable estimates of cost
 2. Bridge load rating analysis
- D. 100% Permit / Final Construction Documents
1. Corrected and conformed plans based on 96% review comments
 2. Final Cost Estimates
 3. Meet with County to discuss schedule and outstanding issues
 4. Deliver signed & sealed drawings and electronic copy including pdf's and dwgs.

Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.

Proposal Exclusions

1. Utility relocation plans, if required
2. Traffic Control Plans

Ellison Wilson Bridge Replacement over canal north of Juno Isles Blvd.

A. 35% Design Phase

Duration: Six (6) weeks from Notice to Proceed

Deliverables: Three (3) 11x17 sets of drawings and electronic pdf format
Engineering Design Drawings 30%

B. 65% Design Phase

Duration Eight (8) weeks from County approval of 30% design plans

Deliverables: Three (3) 11x17 sets of drawings and electronic pdf format
Engineering Design Drawings 65%

C. 96% Design Phase

Duration: 16 weeks from County Approval of 65% Design Plans

Deliverables: Three (3) 11x17 sets of drawings and electronic pdf format
Engineering Design Drawings 96%

D. 100% Permitting / Final Construction Documents

Duration: Four (4) weeks from County Approval of 90% Design Phase

Deliverables: Two (2) 11x17 drawings and electronic pdf format
Engineering Design Drawings 100%
Permitting 100%
Final Cost Estimate



Mr. Brian Rheault, P.E.
Bridge Design Associates
1402 Royal Palm Beach Boulevard
Building 200
Royal Palm Beach, Florida 33411

Subject:
Ellison Wilson Road.
South of Juno Isles Blvd. to North of Ascott Road
Palm Beach County project No. 2013521

Dear Mr. Rheault:

We are pleased to submit this proposal for professional services for the preparation of construction plans for the replacement of the bridge carrying Ellison Wilson Road over the Branch of the Intracoastal Waterway.

The scope of work for the project consists of the widening of Ellison Wilson Road from south of Juno Isles Boulevard to north of Ascott Road. The total length of the project is approximately 1,800 feet. The existing right of way is 80-feet in width. The design speed for the project will be 40 mph. The new bridge structure and roadway will include the following typical section:

- Two 12-foot wide through lanes
- 12-foot wide two way left turn lane
- 4-foot wide outside shoulders

Curb and gutter and concrete sidewalks will be provided on both sides of the roadway. The transition from the existing 2-lane section to the 3-lane section will occur south of Juno Isles Boulevard. The transition from the 3-lane section back to the existing 2-lane section will occur north of the proposed entrance roadway for The Estates At Juno Beach site (a 280' long left turn lane will be provided for The Estates At Juno Beach site).

ARCADIS will prepare roadway plans to detail improvements necessary to match the new bridge width, location and elevations. The following plan sheets will be prepared:

- Cover Sheet

Imagine the result

ARCADIS
2081 Vista Parkway
West Palm Beach
Florida 33411
Tel 561.697.7000
Fax 561.697.7751
www.arcadis-us.com

Transportation

Date:
April 26, 2013

Contact:
Henry Deibel

Phone:
(561) 607-7075

Email:
Hank.deibel@arcadis-us.com

Our ref:

Florida License Numbers

Engineering
EB00007917

Geology
GB564

Landscape Architecture
LC26000269

Surveying
LB7062

ARCADIS

Mr. Brian Rheault
April 26, 2013

- Typical Section
- General Notes and Summary of Quantities
- Benchmarks and Reference Points sheet
- Roadway Plan and Profile
- Details
- Cross Sections
- Pavement Marking and Signage Plan
- Stormwater Pollution Prevention Plan

The plans will be prepared based on a field survey of the project area provided by others.

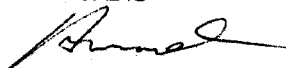
Stormwater drainage improvements for the project will consist of inlets and underground exfiltration trench piping to collect and treat runoff from the roadway pavement. The existing drainage system consists of small diameter storm drains (6" - 8" diameter) that discharge into concrete flumes located on the NE, NW, and SE corners of the bridge. On the SW corner of the bridge an existing inlet and 18" diameter HDPE pipe discharges directly through the seawall. It is anticipated that new outfalls will be provided on all four corners of the bridge. We will coordinate directly with the SFWMD for approval for the drainage improvements and stormwater outfalls. An exfiltration trench system will be provided to provide for water quality treatment prior to discharging into the canal. A permit application package for an Environmental Resource Permit will be prepared and submitted to the South Florida Water Management District for the project.

Compensation for this work will be a lump sum amount of \$40,073.76. In addition to this fee, it is estimated that the permit fees for SFWMD will total \$3,500.00.

Enclosed please find a summary of our fees for this project. We thank you for the opportunity to submit this proposal. Please feel free to contact our office if you have any questions or require any additional information

Sincerely,

ARCADIS



Henry W. Deibel, Jr., P.E.
Associate Vice President

ARCADIS US, INC.
ESTIMATE OF WORK EFFORT FOR ENGINEERING
 Ellison Wilson Road
 South of Juno Isles Boulevard to North of Ascott Road
 PBCo. Project No 2013521

Total Contract Cost Computations	\$	13,501.94
Total Activity Salary Costs		
(a) Overhead Additives:		
(a1) Combined OH Percent		✓ 165.00%
(a2) Combined OH Cost	\$	✓ 22,278.20
Subtotal (Salary + Overhead)	\$	✓ 35,780.14
(b) Operating Margin Percent		✓ 12.00%
(b) Operating Margin Cost	\$	✓ 4,293.62
Subtotal (Salary Related Cost)	\$	40,073.76
Subtotal (Cost Elements of Basic Activities)	\$	✓ 40,073.76

TOTAL BASIC SERVICES \$ ✓ 40,073.76

Optional Services

TOTAL OPTIONAL SERVICES \$

Reimbursable Expenses

SFWMD Permit Application Fee \$ ✓ 3,500.00

TOTAL REIMBURSABLE ITEMS \$ ✓ 3,500.00

LUMP SUM = \$ ✓ 43,573.76

✓ 2.96 multiplier

ARCADIS US, INC.

ESTIMATE OF WORK EFFORT FOR ENGINEERING

Ellison Wilson Road
 South of Juno Isles Boulevard to North of Ascott Road
 PBCo. Project No 2013521

	Chief Engineer		Project Manager		Designer		ACTIVITY TOTAL
	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS	HOURLY RATE	MAN HOURS
DESIGN ANALYSIS	-	\$ 64.90	-	\$ 49.54	-	\$ 29.00	-
DRAINAGE ANALYSIS	6.0	\$ 64.90	10.0	\$ 49.54	-	\$ 29.00	16.0
ROADWAY PLANS	41.0	\$ 64.90	48.0	\$ 49.54	125.0	\$ 29.00	214.0
UTILITIES	10.0	\$ 64.90	6.0	\$ 49.54	6.0	\$ 29.00	22.0
PERMITTING	8.0	\$ 64.90	12.0	\$ 49.54	-	\$ 29.00	20.0
SIGNING & PAVEMENT MARKING PLANS	7.0	\$ 64.90	15.0	\$ 49.54	18.0	\$ 29.00	40.0
TOTALS	72.0		91.0		149.0		312.0

DESIGN ANALYSIS	\$ -	\$ -	\$ -
DRAINAGE ANALYSIS	\$ 389.40	\$ 495.40	\$ -
ROADWAY PLANS	\$ 2,660.90	\$ 2,377.92	\$ 3,625.00
UTILITIES	\$ 649.00	\$ 297.24	\$ 174.00
PERMITTING	\$ 519.20	\$ 594.48	\$ -
SIGNING & PAVEMENT MARKING PLANS	\$ 454.30	\$ 743.10	\$ 522.00
TOTALS	\$ 4,672.80	\$ 4,508.14	\$ 4,321.00

	BY ACTIVITY	COST FOR ACTIVITY	HOURLY RATE
DESIGN ANALYSIS	-	\$ -	#DIV/0!
DRAINAGE ANALYSIS	16.0	\$ 884.80	55.30
ROADWAY PLANS	214.0	\$ 8,663.82	40.49
UTILITIES	22.0	\$ 1,120.24	50.92
PERMITTING	20.0	\$ 1,113.68	55.68
SIGNING & PAVEMENT MARKING PLANS	40.0	\$ 1,719.40	42.99
TOTALS	312.0	\$ 13,501.94	\$43.28 <i>Average per hour</i>

Exhibit "A" - Page 18 of 37

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 2 - DRAINAGE DESIGN & ANALYSIS

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/UNIT	NO. OF SHEETS	TOTAL HOURS	Chief Engineer	Project Manager	Designer	REMARKS
1. Design of Cross Drains	Ea.				0				
2. Drainage Maps	Sheet				0				
3. Design of Outfall Ditches	Ea.				0				
4. Interchange Drainage Design	Ea.				0				
5. Design of Storm Sewers	Ea.				0				
6. Drainage Design & Calculations	Ea.	1	12		12	4.0	8.0		
7. Drainage Report	L.S.	1	4		4	2.0	2.0		
8. Preparation of Bridge Hydraulics Report	Ea.				0				
9.					0				
10					0				
11					0				
SUBTOTAL THIS SHEET					✓ 16	✓ 6	✓ 10	0	

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 3 - ROADWAY PLANS

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/UNIT	NO. OF SHEETS	TOTAL HOURS	Chief Engineer	Project Manager	Designer	REMARKS
1. Key Map	Sheet	1	4	1	4	1.0		3.0	
2. Typical Section & Notes	Sheet	2	6	1	12	2.0	4.0	6.0	
3. Summary of Quantities	Each	1	4	1	4	1.0	1.0	2.0	
4. Plan & Profiles	Sheet	3	35	3	105	16.0	26.0	63.0	
5. Intersection Details (Grading Sheet)	Each	1			0				
6. Conceptual Traffic Control Plans	Sheet	1			0				
7. Traffic Warrants	L.S.				0				
8. Computation Booklet	L.S.	1	8		8	4.0	4.0		
9. Miscellaneous Construction Details	L.S.	1	8	1	8	2.0		6.0	
10. Drainage Structure Sheets	Sheet	1	8	2	16	3.0	3.0	10.0	
11. Cross-Sections	Ea.	18	2.5		45	6.0	8.0	31.0	
12. Baseline Control	Sheet	1	6	1	6		2.0	4.0	
13. Cost Estimates	Each	3	2		6	6.0			
SUBTOTAL THIS SHEET					✓ 214	✓ 41	✓ 48	✓ 125	

Exhibit "A" - Page 20 of 37

HIGHWAY TASK LIST

ACTIVITY: A. ROADWAY PLANS PACKAGE

SUBACTIVITY: 5 - ENV. SERVICES / PERMITS

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/UNIT	NO. OF SHEETS	TOTAL HOURS	Chief Engineer	Project Manager	Designer	REMARKS
1. Preliminary Field Review	L.S.		2		0				
2. Agency Coordination (Includes all Phases)	L.S.	1	8		8	4.0	4.0		
3. Establish Wetland Jurisdictional Lines	L.S.		0		0				
4. Agency Field Review	L.S.		8		0				
5. Prepare Wetland Resource / Dredge & Fill Permit Application	L.S.		16		0				
6. Prepare Stormwater Mgmt. & Surface Water Permit Application (SFWMD)	L.S.	1	8		8	4.0	4.0		
7. FPL / FDOT / PBCo. Traffic Signal Meetings	L.S.	1			0				
8. Prepare LWDD Permit Application	L.S.	1	4		4		4.0		
9. Address FDOT comments	L.S.	1			0				
10.	L.S.				0				
11 Mitigation Coordination and Meetings	L.S.				0				
SUBTOTAL THIS SHEET					✓ 20	✓ 8	✓ 12	0	

Exhibit "A" - Page 22 of 37

HIGHWAY TASK LIST

ACTIVITY: B. SIGNING & PAVEMENT MARKINGS

SUBACTIVITY: NONE

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HOURS/UNIT	NO. OF SHEETS	TOTAL HOURS	Chief Engineer	Project Manager	Designer	REMARKS
1. Key Sheet	Sheet	1	4	1	4		1	3	
2. General Notes	Sheet		4		0				
3. Tabulation of Quantities	Sheet	1	8		8	2	6		
4. Plan Sheets	Sheet	3	8	3	24	3	6	15	
5. Guide Sign Worksheet	EA	1	8		0				
6. Quantity Computation booklet	EA	1	4		4	2	2		
7. Special Marking Details	EA	1	1		0				
8. Sign Details	Sheet		0		0				
9. Metal / Concrete Pole Details	EA		0		0				
10. Service Point Details	EA		0		0				
11. C.E.S. / Summary of Pay Items	L.S.		0		0				
12. Special Provisions	L.S.		0		0				
SUBTOTAL					✓ 40	✓ 7	✓ 15	✓ 18	



May 3, 2013

Mr. Brian Rheault
Bridge Design Associates, Inc.
1402 Royal Palm Beach Boulevard
Suite 200
Royal Palm Beach, FL 33411

**Re: Ellison Wilson Road South of Juno Isles Boulevard to North of Ascot Road
Roadway Design Survey**

Dear Mr. Rheault:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. We will review any title work supplied by you. The scope of services is as follows:

SCOPE OF SERVICES

I. HORIZONTAL PROJECT NETWORK CONTROL

Using the information supplied by Palm Beach County, we will establish the Right-of-Way for Ellison Wilson Road. A traverse will be run through the route and all found monumentation will be tied in. The survey will be oriented to Palm Beach County horizontal control (NAD 83/90 Adjustment). The Palm Beach County Survey Department will supply all the sectional control information along the proposed route.

The limits of the survey are from 600' south of Juno Isles Boulevard to 1000' north of Ascot Road and are shown on Attachment 'B'.

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed along the route using the existing Palm Beach County benchmarks (NAVD 1988). Benchmarks will be set along the route, not exceeding 600 feet apart, so that we will have at least one benchmark per plan sheet. All benchmarks will be set outside of the proposed right of way.

III. BASELINE LAYOUT

We will lay out the baseline at 100-foot intervals setting appropriate points at each station. The baseline will be laid out within the limits of the 2,100'± route. These baseline points will be used in the topographic and cross section phase to locate features and facilitate checks.

Rheault
May 3, 2013
Page 2

IV. REFERENCE POINTS

We will reference the baseline at intervals not exceeding 1400 feet along the route. These points will be used to replace disturbed baseline stations. We propose to set three (3) references.

V. SECTION TIES AND PROPERTY TIES

We will tie in section corners and property corners along the route to check the present alignment of Ellison Wilson Road. We will try to locate as many corners as possible to positively establish the current right of ways.

VI. SIDE STREET SURVEYS

A topographic survey will be done on all side streets to 300 feet from the right of way line of Ellison Wilson Road. This survey will show high and low points along the centerline including drainage.

VII. TOPOGRAPHY

A topographic survey will be performed along the route. This survey will tie in all visible features such as, but not limited to, signs, light poles, guardrails, utilities, walks, edge of pavement, curbing, drainage structures, striping, trees (within the right-of-way only), etc. These locations will show all features within the corridor from right of way to right of way extending to 10 feet outside the proposed right of way (if provided prior to start of field work).

VIII. CROSS SECTIONS

Cross sections will be done along the route at 100-foot intervals and at inlet locations. In addition, we will obtain centerline elevations on all driveways at 5' intervals. These cross sections will cover the roadway to the right of way lines and extend to 25 feet outside of the proposed right of way (if provided prior to start of field work).

IX. ASBUILTS

We will attempt to get asbuilt information on all the pipes leading out of any storm or sanitary sewer structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

X. BRIDGE SURVEY

We will do a detailed drawing of the existing structure and obtain elevations and locations. We will measure elevations of abutments, bridge piers and obtain soundings across the canal under direction from you. We estimate that we will need at least eight (8) cross sections over the canal, one at the face of the bridge then at 25', 50' and 100' east and west of the bridge. No tide study is proposed. We will obtain the mean high water elevation from the State of Florida.

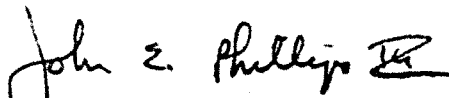
Rheault
May 3, 2013
Page 3

XI. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide Bridge Design Associates, Inc. with an AutoCAD file in the version requested. Any additional work will be done on an hourly basis as approved by you. We will perform the scope of services for a **lump sum fee of \$16,184.00** (see Attachment 'A' for an hourly breakdown). Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Sincerely,

Brown & Phillips, Inc.


John E. Phillips III, P.L.S.
Principal

JEP/mb

Accepted This _____ Day Of _____, 2013.

Bridge Design Associates, Inc.

By: _____

Print Name: _____



BROWN & PHILLIPS, Inc.
PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

Ellison Wilson Road South of Juno Isles Boulevard to North of Ascot Road

Type of Survey: Roadway Design

Size: 2,100±

Date: May 3, 2013

TASK	3 MAN CREW	CADD TECH	SURVEY TECH	PLS	COMMENTS
Meetings and Coordination					
Horizontal Project Network Control	6		12	4	Establish control and right-of-way
Vertical Project Network Control	6		1		Set benchmarks along corridor
Baseline Layout	1		0.5		Layout baseline at 100' intervals
Reference Points	3		1		Set references (3)
Section Ties	3		1		Tie in PBCo. Horizontal control
Subdivision & Property Ties	5		4	1	Tie in adjoining property corners
Side Street Surveys	4		1		4 side streets to 100' down street
Topography	24		8	3	Locate all above ground features including trees
Cross Sections	12		5	1	At 100' intervals to 25' outside R/W
Asbuilts	2		1		Asbuilt storm structures
Special Surveys Bridge Survey	9	8	2	1	Detail of structure & 8 soundings with profiles
CADD Base Drawing		24	8	4	Prepare cadd drawing
Total Hours:	✓ 75	✓ 32	✓ 44.5	✓ 14	
Rate/Hour	✓ \$125.00	✓ \$66.00	✓ \$70.00	✓ \$113.00	
Subtotal:	✓ \$9,375.00	✓ \$2,112.00	✓ \$3,115.00	✓ \$1,582.00	
Total Labor Cost:					✓ \$16,184.00

Other Direct Costs:

	quantity	unit	cost/unit	total
Legal Description & Sketch		each	\$450.00	\$0.00
Prints		sheet	\$1.50	\$0.00
Shipping		cost x markup	1.20	\$0.00
Other				\$0.00

Total Other Direct Costs:

✓ 2.744 multiple

\$0.00

TOTAL PRICE

✓ \$16,184.00



ISIMINGER & STUBBS ENGINEERING, INC.

COASTAL • ENVIRONMENTAL • MARINE

February 26, 2013

PRINCIPALS:

Charles C. Isiminger, P.E.
Darwin C. Stubbs, P.E.

ASSOCIATES:

Mark A. Powell, P.E.
Matthew D. Butler, P.E.

VIA E-MAIL

Bridge Design Associates, Inc.
1402 Royal Palm Beach Blvd., Building 200
Royal Palm Beach, Florida 33411
Attn: Brian Rheault, P.E.

Re: Environmental Permit and U.S. Coast Guard Authorization Applications and Processing
Proposed Bridge Replacement
Ellison Wilson Road – Bridge Over Canal North of Juno Isles Boulevard
Palm Beach County, Florida

Gentlemen:

We are pleased to submit the following proposal for professional services in connection with environmental permit and U.S. Coast Guard authorization application and processing, for the proposed bridge replacement at the referenced site. ISIMINGER & STUBBS ENGINEERING, INC., hereinafter referred to as the Engineer, proposes to furnish professional services for BRIDGE DESIGN ASSOCIATES, INC., hereinafter referred to as the Client, of the scope outlined below for the fees stipulated herein.

SCOPE OF SERVICES

The Engineer will perform the following:

1. Review existing aerials, plans, surveys, permits, and other materials as may be obtained for the referenced project, and accomplish any necessary on-site reconnaissance, including soundings and seagrass observations.
2. Prepare and submit an Environmental Resource Permit/Certification application to the Florida Department of Environmental Protection (DEP) or the South Florida Water Management District (SFWMD), as appropriate pursuant to the operating agreement between DEP and the SFWMD (SFWMD anticipated). Prepare and submit a permit application to the U.S. Army Corps of Engineers (COE). Prepare and submit a Section 9 bridge repair application to the U.S. Coast Guard as necessary.
3. Process the applications with the appropriate agencies (success and timing in permitting are not guaranteed).
4. Other services as may be agreed to between the parties to this agreement.

Proposed services do not include any other authorizations such as local government approval or NPDES permitting. Other regulations should be independently checked by others.

Page 2
Bridge Design Associates, Inc.
February 26, 2013

ITEMS TO BE FURNISHED BY THE CLIENT
AT NO EXPENSE TO THE ENGINEER

Assist Engineer by placing at disposal of same, all available pertinent information including previous permits, reports or any other data relative to the project.

Furnish at no cost to the Engineer, title search and abstract of property; all permit application and governmental inspection fees; data prepared by or services required of others, such as subsurface explorations, laboratory tests and inspections of samples, materials and equipment; appropriate professional interpretations of all of the foregoing; all surveying information including, but not limited to, property, boundary, easement, right-of-way, topographic, permanent reference monuments, permanent control points and utility surveys and property descriptions; zoning and deed restrictions; and other special data, all of which the Engineer may rely upon, if necessary, in performing services.

Designate in writing, if appropriate, a person to act as the Client's representative with respect to the services to be performed under this agreement. Such person shall have complete authority to transmit instructions, receive information, interpret and define the Client's policies and decisions with respect to materials, equipment, elements and systems pertinent to the Engineer's services.

GENERAL CONDITIONS

The attached General Conditions shall apply to this agreement.

FEES TO BE PAID

Except for lump sum items, the Engineer shall be paid for services in accord with the salary schedule shown on the following page (except for work in conjunction with administrative hearings or court proceedings, which shall be billed at higher rates), plus reimbursement for direct non-salary expenses including, but not limited to, automobile travel at the prevailing IRS rate, commercial air travel at cost, long distance telephone, subsistence, printing and reproduction. The salary schedule is subject to periodic revision.

Item 1 will be accomplished for a lump sum price of \$1,550. Item 2 will be accomplished for a lump sum price of \$3,820. Item 3 will be accomplished for a lump sum price of \$4,620. (Total of \$9,990) For purposes of the lump sum fee, the proposed bridge repair must not have direct or indirect or secondary impacts to seagrasses or other significant resources, and no mitigation may be required for impacts. If seagrasses or other significant resources are found, or mitigation is required for impacts to resources, additional services shall be billed at the hourly rates shown on the following page. If a hydrographic (flushing) analysis is required (such as due to concerns over perceived restriction of flow), services required to develop the analysis shall be billed at the hourly rates shown on the following page. If a public hearing, administrative hearing, or court trial is required, services required by one or more of these events shall be billed at the hourly rates shown on the following page.

HOURLY RATES FOR PERSONNEL COMPENSATION (2013)

Isiminger & Stubbs Engineering, Inc.

Principal Professional Engineer	\$230.00
Senior Professional Engineer	170.00
Professional Engineer	150.00
Engineer Intern	110.00
Junior Engineer	85.00
Drafter (CAD)	65.00
Technician	55.00
Administrative/Researcher	50.00

Hourly rates are subject to revision at the beginning of each calendar year.

Page 3
Bridge Design Associates, Inc.
February 26, 2013

FEES TO BE PAID (CONT.)

The Scope of Services shall be construed narrowly. Services provided for these fees do not include any work required by others such as surveying, soil and water quality sampling, archeological surveys, project team meetings relating to other subjects, or travel beyond that necessary for the narrowly defined Scope of Services.

Payments shall be made upon monthly billing, payable within ten (10) days from the date of invoice. Past due payments shall include interest from the date of invoice at a simple interest rate of 1-1/2 percent per month.

TERMINATION

This agreement may be terminated by either party by giving thirty (30) days advance written notice. The Engineer shall be paid for services rendered to the date of termination on the basis of a reasonable estimate of the portion of services completed prior to termination and shall be paid for all reasonable expenses resulting from such termination and for any unpaid reimbursable expenses.

ACCEPTANCE

Acceptance of this proposal may be indicated by the signature of the Client in the space provided below. One signed copy of this proposal, returned to the Engineer, will serve as an agreement between the parties and as Notice to Proceed. Should this proposal not be accepted within a period of 30 days from the above date, it shall become null and void.

Sincerely,

ISIMINGER & STUBBS ENGINEERING, INC.



Charles C. Isiminger, P.E.

13002.BDAEWR.PRO
cc: Addressee

ACCEPTED BY:
Bridge Design Associates, Inc.

Printed Name of Person Signing: _____

Signed: _____

Date: _____



ISIMINGER & STUBBS ENGINEERING, INC.

COASTAL • ENVIRONMENTAL • MARINE

PRINCIPALS:

Charles C. Isiminger, P.E.
Darwin C. Stubbs, P.E.

ASSOCIATES:

Mark A. Powell, P.E.
Matthew D. Butler, P.E.

Fee Estimate:

Bridge Design Associates, Inc.
Environmental Permit and U.S. Coast Guard Authorization Applications and Processing
Proposed Bridge Replacement
Ellison Wilson Road Bridge Over Canal North of Juno Isles Boulevard
Palm Beach County, Florida
February 25, 2013

Scope of Services Items 1 thru 3

Item 1

Research and Review Documents -

Principal Professional Engineer - 1 hr. at \$230/hr.	✓	\$ 230
Professional Engineer - 5 hrs. at \$150/hr.	✓	\$ 750
Administrative/Researcher - 1 hrs. at \$50/hr.	✓	\$ 50

On-site Reconnaissance -

Professional Engineer - 2 hrs. at \$150/hr.	✓	\$ 300
Engineer Intern - 2 hrs. at \$110/hr.	✓	\$ 220

Total -	✓	\$1,550
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Item 2

Prepare and Submit Permit Applications -

Principal Professional Engineer - 2 hrs. at \$230/hr.	✓	\$ 460
Professional Engineer - 10 hrs. at \$150/hr.	✓	\$1,500
Engineer Intern - 16 hrs. at \$110/hr.	✓	\$1,760
Administrative/Researcher - 2 hrs. at \$50/hr.	✓	\$ 100

Total -	✓	\$3,820
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Page 2
Fee Estimate
August 24, 2012

Item 3

Process Permit Applications –

Principal Professional Engineer – 3 hrs. at \$230/hr.	✓	\$ 690
Professional Engineer – 20 hrs. at \$150/hr.	✓	\$3,000
Engineer Intern – 8 hr. at \$110/hr.	✓	\$ 880
Administrative/Researcher – 1 hr. at \$50/hr.	✓	\$ 50
Total -	✓	<u>\$4,620</u>
Overall Total	✓	\$9,990

- Fort Lauderdale
- Port Saint Lucie
- Sarasota
- West Palm Beach

Bridge Design Associates, Inc.
1402 Royal Palm Beach Blvd., Bldg 200
Royal Palm Beach, FL 33411

February 20, 2013
Project No.: WPB-13-8468
BG 21.1

Attention: Mr. Brian Rheault, P.E.

Subject: *Proposal, Geotechnical Engineering Services*
Ellison Wilson Road Bridge
About 200 feet South of Ascott Road
Palm Beach County, Florida

Mr. Rheault:

INTRODUCTION

Pursuant to your request, Dunkelberger Engineering & Testing, Inc. (Dunkelberger) is pleased to submit this proposal for geotechnical engineering services for the proposed bridge modifications at the Ellison Wilson Road crossing over a canal located about 200 feet south of Ascott Road in Palm Beach County, Florida. This proposal provides a scope of work and implementation schedule. Compensation for our services is also discussed.

We understand that current plans are to modify the existing bridge and roadway just north and south of the bridge. Exfiltration trenches are also being considered north and south of the bridge. Based upon information available on Google Earth, the existing bridge site is accessible to conventional truck-mounted drilling equipment. However, maintenance of traffic will be required to enable the work to be performed within the roadway safely and with limited impacts to local traffic. We have assumed that a Right-of-Way Use permit will not be required through Palm Beach County.

SCOPE OF WORK

The subsurface study will entail five tasks:

1. Exploration of the subsurface conditions at the bridge site using two 75-foot deep Standard Penetration Test (SPT) borings. Samples of the subsurface materials will be obtained at frequent vertical intervals using procedures prescribed in ASTM D 1586 (the Standard Penetration Test). The borings will be sealed with neat cement grout and cold patch asphalt upon their completion. In addition, six cores of the asphalt pavement will be obtained.
2. Assessment of the hydraulic conductivity characteristics of the profile components through the performance of two usual, open hole constant head permeability tests.
3. Review of the data from the borings and classification of the subsurface components in accordance with the Unified Soil Classification System (ASTM D 2487) and appropriate geologic nomenclature. Representative samples will be tested for grain size distribution to aid in the classification process. One canal water sample will be tested for the corrosion parameters of pH, Resistivity, sulfates and chlorides.

Ellison Wilson Road Bridge Modifications
Project No. WPB-13-8468 BG 21.1
February 20, 2013

4. Preparation of a CADD generated boring location plan and boring subsurface profiles.
5. Preparation and submittal of a report which presents the factual information obtained and geotechnical engineering design criteria, namely:
 - environmental classification of the canal water
 - driven pile depth-capacity curves for deep borings
 - lateral load vs deflection and moment estimates for piling
 - soil moist and saturated unit weights, cohesion, friction angles for computation of lateral earth pressures adjacent to bridge abutments
 - an estimate of the Modulus of Resilience for subgrade soils
 - related construction recommendations

SCHEDULE, COMPENSATION AND OTHER TERMS

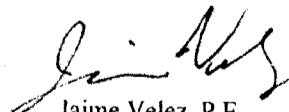
We are prepared to initiate our work within five days after receiving your written notification to proceed. The duration of the field work is expected to take two days. Engineering data evaluation and report preparation will require about two weeks, leading to an overall project schedule of approximately three to four weeks. Four copies of the report will be transmitted to you at that time.

Based upon our general knowledge of the subsurface conditions of the site area and an interpretation of your requirements, we are willing to provide the services outlined earlier on a unit rate basis with a maximum limiting amount of \$11,025.35. An itemized breakdown is provided on Attachment 1. Unit fee rates shown in that attachment are consistent with our current continuing services contract with Palm Beach County Engineering. This price and schedule are predicated upon the work not requiring us to obtain a Right-of-Way Use permit.

Other terms and conditions pertaining to the engagement of our services are discussed in the attached General Conditions (Attachment 2). The General Conditions are hereby incorporated into and made a part of this proposal. Thank you for considering Dunkelberger for this assignment. If the proposal is satisfactory, kindly sign and return one copy of this proposal for our files. Should the proposal contents require any clarification or amplification, please feel free to contact us.

Very truly yours,

DUNKELBERGER ENGINEERING & TESTING, INC.


Jaime Velez, P.E.
Project Engineer


Kevin E. Aubry, P.E.
Geotechnical Services Manager

Attachment 1 – Estimated Fee Breakdown
Attachment 2 - General Conditions

Accepted this _____ day of _____, 2013.

Company

Signature

Name and Title

ATTACHMENT 1
 ELLISON WILSON ROAD BRIDGE ABOUT 200 FT SOUTH OF ASCOTT ROAD
 DUNKELBERGER ENGINEERING & TESTING, INC.
 GEOTECHNICAL ENGINEERING SERVICES

Feb. 20, 2013

ITEM DESCRIPTION	UNITS	QUANT.	UNIT RATE	FEE
I. PROJECT START UP & MOBILIZATION				
A. Stake Boring Locations & Utility Clearance	hours	5	\$ 62.89	\$314.45
B. Drilling Rig Mobilization	Each	1	\$ 350.00	\$350.00
SUBTOTAL - START UP & MOB				\$664.45
II. FIELD EXPLORATION				
A. SPT Borings (0 to 50 feet deep)	feet	100	\$ 12.00	\$1,200.00
B. SPT Borings (50 to 100 feet deep)	feet	50	\$ 14.00	\$700.00
C. Grout Seal Boreholes (0 TO 50 feet deep)	feet	100	\$ 4.00	\$400.00
D. Grout Seal Boreholes (50 to 100 feet deep)	feet	50	\$ 5.00	\$250.00
E. Maintenance of Traffic	days	3	\$ 300.00	\$900.00
F. Pavement Cores	each	6	\$ 50.00	\$300.00
G. Hand Auger Boring	feet	12	\$ 9.00	\$108.00
H. Percolation Test	each	2	\$ 350.00	\$700.00
I. Sen. Engineering Tech.	hours	24	\$ 62.89	\$1,509.36
SUBTOTAL - FIELD EXPLORATION				\$6,067.36
III. LABORATORY TESTING				
A. Visual Engineering Classification	hours	1	\$ 84.64	\$84.64
B. Moisture Content Test	each	4	\$ 10.00	\$40.00
C. Organic Content Test	each	2	\$ 50.00	\$100.00
D. Corrosivity	each	1	\$ 150.00	\$150.00
E. Full Grain Size (Sieve Analysis)	each	2	\$ 65.00	\$130.00
SUBTOTAL - LABORATORY TESTING				\$504.64
IV. ENGINEERING & REPORT PREPARATION				
A. Senior Geotechnical Engineer	hours	6	\$ 124.77	\$748.62
B. Engineer, P.E.	hours	30	\$ 84.64	\$2,539.20
C. Drafter/CADD	hours	5	\$ 63.72	\$318.60
D. Engineering Technician	hours	4	\$ 45.62	\$182.48
SUBTOTAL - ENGINEERING				\$3,788.90
TOTAL - GEOTECHNICAL ENGINEERING SERVICES				\$11,025.35

→ 3.0 multiple

Palm Beach County
Engineering & Public Works Roadway Production

Exhibit "C" - Page 1 of 2

PARTICIPATION FOR MWBE/SBE CONSULTANTS
Contract

Project Name: Ellison Wilson Road from S. of Juno Isles Blvd. to N. of Ascot Road **Project Number:** 2013521
Prime Vendor: Bridge Design Associates, Inc. **Resolution Number:**
Telephone: (561) 686-3660 **Resolution Date:** 6/10/2013
Contact: Brian Rheault **Department:** Engineering & Public Works

MINORITY SUBCONTRACTORS

Minority Sub-Consultant	Type of Work Performed	Contract Dollar Amount for Sub-Consultant				
		Black	Hispanic	Women	Other	White Male
Bridge Design Associates, Inc. 1402 ROYAL PALM BEACH BLVD BL ROYAL PALM BEACH, FL 33411 (561) 686-3660	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	0.00	0.00	0.00	86,370.00
Brown & Phillips, Inc. 1860 OLD OKEECHOBEE ROAD, SUI WEST PALM BEACH, FL 33409 (561) 615-3988	MWBE	0.00	0.00	0.00	0.00	
	SBE	16,184.00	0.00	0.00	0.00	0.00
Bridge Design Associates, Inc. 1402 ROYAL PALM BEACH BLVD BL ROYAL PALM BEACH, FL 33411 (561) 686-3660	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	0.00	0.00	0.00	8,025.00
Bridge Design Associates, Inc. 1402 ROYAL PALM BEACH BLVD BL ROYAL PALM BEACH, FL 33411 (561) 686-3660	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	0.00	0.00	0.00	1,500.00
Total Contract Authorizaton \$176,668.11	Total MWBE	0.00	0.00	0.00	0.00	
	Percentage	0.00%	0.00%	0.00%	0.00%	
	Total SBE	16,184.00	0.00	0.00	0.00	95,895.00
	Percentage	9.16%	0.00%	0.00%	0.00%	54.28%



CERTIFICATE OF LIABILITY INSURANCE

BRIDG-2 OP ID: BH

DATE (MM/DD/YYYY)
11/27/12

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER ACEC/MARSH 701 Market St., Ste. 1100 St. Louis, MO 63101 Kevin P. Woolley	800-338-1391 888-621-3173	CONTACT NAME: PHONE (A/C, No., Ext): FAX (A/C, No.): E-MAIL ADDRESS:													
	<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: New Hampshire Insurance Co</td> <td>23841</td> </tr> <tr> <td>INSURER B:</td> <td></td> </tr> <tr> <td>INSURER C:</td> <td></td> </tr> <tr> <td>INSURER D:</td> <td></td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: New Hampshire Insurance Co	23841	INSURER B:		INSURER C:		INSURER D:		INSURER E:		INSURER F:
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INSURER D:															
INSURER E:															
INSURER F:															
INSURED Bridge Design Associates, Inc. 1402 Royal Palm Beach, Bldg 200 Royal Palm Beach, FL 33411															

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR: NSR, WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN L AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input type="checkbox"/> PROJ-JECT <input type="checkbox"/> LOC					EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS					COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$					EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below	N/A				WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability		28392302	11/27/12	11/27/13	Claim 1,000,000 Aggregate 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 This policy covers the professional services of the Named Insured for all projects & the limits of liability shown shall not be construed to be applied to a particular project. Professional Liability is written on a claims-made reported basis "For All Projects with Palm Beach County" Retroactive Date for Professional Liability is 01/01/1988.

CERTIFICATE HOLDER Palm Beach County Board of County Commissioners c/o Engr & Public Works Dept. 2300 North Jog Rd. West Palm Beach, FL 33411	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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CERTIFICATE OF LIABILITY INSURANCE

OP ID: BH

DATE (MM/DD/YYYY)
05/06/13

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

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PRODUCER ACEC/MARSH 701 Market St., Ste. 1100 St. Louis, MO 63101 Kevin P. Woolley	800-338-1391 888-621-3173	CONTACT NAME: PHONE (A/C, No., Ext): FAX (A/C, No): E-MAIL ADDRESS: PRODUCER CUSTOMER ID #: BRIDG-2
INSURED Bridge Design Associates, Inc. 1402 Royal Palm Beach, Bldg 200 Royal Palm Beach, FL 33411	INSURER(S) AFFORDING COVERAGE INSURER A: Hartford Insurance Company INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:	
		NAIC # 22357

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN L AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC			84SBWPG2904 PROFESSIONAL LIAB EXCL	05/25/13	05/25/14	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPROP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS			84UEGAU0584	05/25/13	05/25/14	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$ \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000			84SBWPG2904	05/25/13	05/25/14	EACH OCCURRENCE \$ 3,000,000 AGGREGATE \$ 3,000,000 \$ \$
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY <input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	84WEGBR0658	05/25/13	05/25/14	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)
 Re: All Palm Beach County Projects - Palm Beach County Board of County Commissioners, a Political Subdivision of the State of Florida, its officers, employees and agency are included as additional insured for above coverages except WC as required by written contract.

CERTIFICATE HOLDER PALM Palm Beach County Board of County Commissioners c/o Engr & Public Works Ops/Rdwy 2300 North Jog Rd. West Palm Beach, FL 33411	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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