

PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

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<b>Meeting Date:</b>	<b>August 14, 2012</b>	<input checked="" type="checkbox"/>	<b>Consent</b>	<input type="checkbox"/>	<b>Regular</b>
		<input type="checkbox"/>	<b>Workshop</b>	<input type="checkbox"/>	<b>Public Hearing</b>
<b>Department:</b>					
<b>Submitted By:</b>	<b>Engineering &amp; Public Works Department</b>				
<b>Submitted For:</b>	<b>Roadway Production Division</b>				

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I. EXECUTIVE BRIEF

**Motion and Title: Staff recommends motion to approve:** A Task Authorization to the Annual Agreement R2011-0175 in the amount of \$241,393.80 with R.J. Behar & Company, Inc. (RJB), for professional services.

**SUMMARY:** Approval of this Task Authorization will provide the professional services necessary for the preparation of design plans and construction bid documents for the Hatton Highway Bridge over PDD Main Canal 2 Bridge Rehabilitation / Replacement project (Project). RJB has an office in Palm Beach County and is a certified Small Business Enterprise (SBE). The SBE goal for the Project is 15%. The SBE participation committed for this Project by RJB is 91.05%.

District 6 (MRE)

**Background and Justification:** On January 24, 2012, the Board of County Commissioners (Board) renewed an Annual Agreement R2012-6033 with RJB to provide professional services required for Countywide Structural Engineering Projects. Palm Beach County now desires RJB to prepare bridge replacement design plans and construction bid documents for the Project as detailed in Exhibit "A" of the attached Task Authorization. The fee, as detailed in Exhibit "B" of the attached Task Authorization, has been negotiated as just and reasonable compensation as follows:

Basic Services (Lump Sum) .....	\$168,348.97	(Design Plans, Permits, Utilities).
Reimbursable Expenses (Not to Exceed)....	\$ 56,854.50	(Survey, Geotechnical, Permit Fees, Prints).
Optional Services (Not to Exceed).....	\$ 16,190.33	(Construction Services).
Total:	<u>\$241,393.80</u>	

After reviewing the attached Task Authorization and finding it in proper order, staff recommends the Board's approval.

**Attachments:**

1. Location Map
2. Task Authorization with Exhibits "A", "B", "C", & "D" and Certificate of Insurance (2)
3. Project Work Schedule

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Recommended by: *[Signature]* 6/19/12 *[Signature]*

Division Director

Date

## II. FISCAL IMPACT ANALYSIS

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

Fiscal Years	2012	2013	2014	2015	2016
Capital Expenditures	<u>\$337,954</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Operating Costs	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
External Revenues	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
Program Income (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
In-Kind Match (County)	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
<b>NET FISCAL IMPACT</b>	<u>\$337,954</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>
# ADDITIONAL FTE					
POSITIONS (Cumulative)					

Is Item Included in Current Budget?    Yes   X   No

**Budget Account No:**

Fund 3500   Dept 361   Unit 1001-07   Object 6505

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

Transportation Improvement Fund  
 Intracoastal Crossings  
 Hatton Highway Bridge over PDD Main Canal 2

Basic Services	\$168,348.97
Optional Services	\$ 16,190.33
Reimbursable Expenses	\$ 56,854.50
Staff Costs	
Roadway Production	\$ 48,280.00
Right of Way	\$ 12,070.00
Survey	\$ 12,070.00
Traffic	<u>\$ 24,140.00</u>
Fiscal Impact	<u>\$337,953.80</u>

**C. Departmental Fiscal Review:**

*White*

### III. REVIEW COMMENTS

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

\_\_\_\_\_  
 OFMB    *7/24/12*

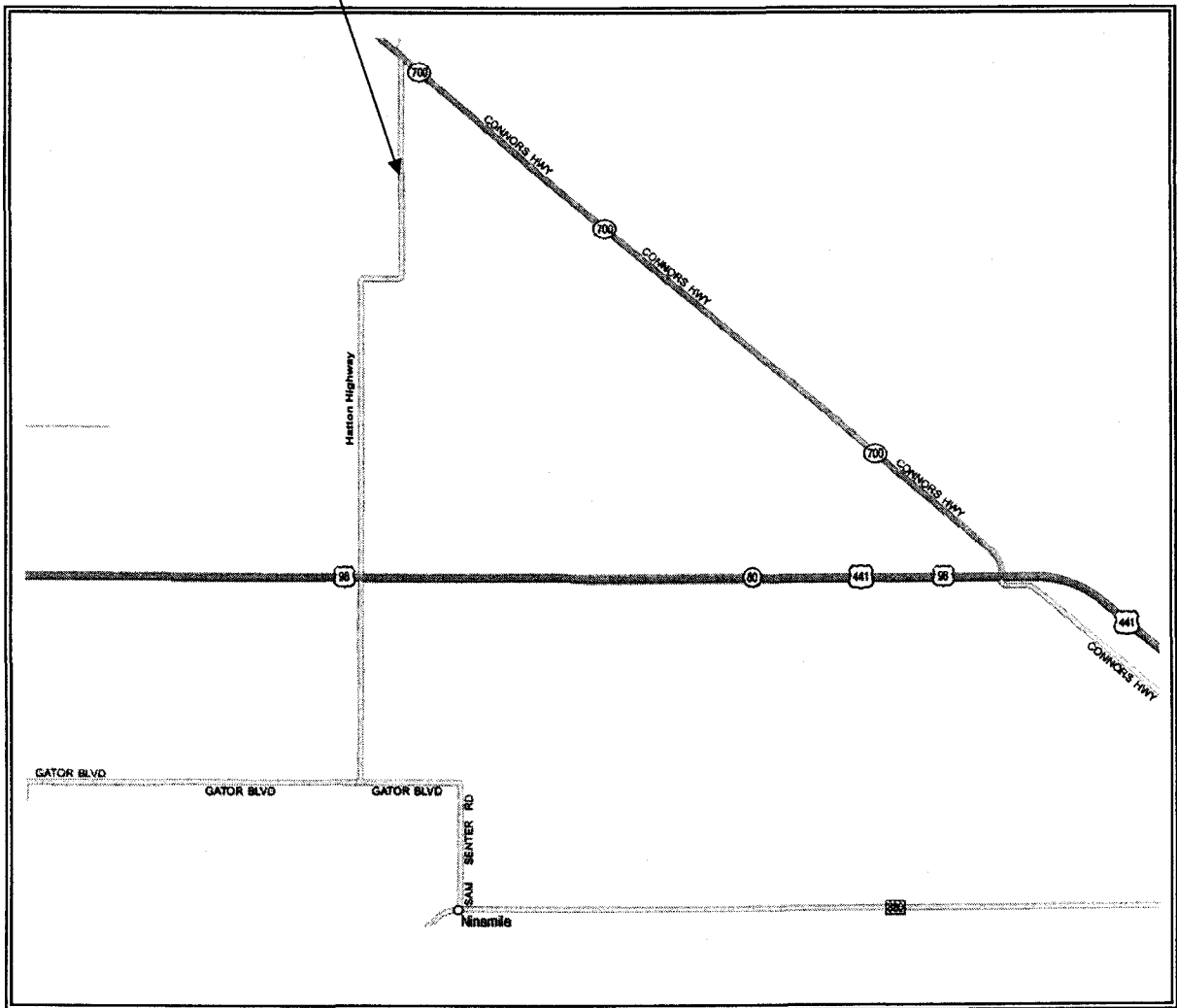
\_\_\_\_\_  
 Contract Dev. and Control    *7/26/12*

**B. Approved as to Form  
and Legal Sufficiency:**

\_\_\_\_\_  
 Assistant County Attorney

**C. Other Department Review:**

**PROJECT LOCATION**  
**HATTON HIGHWAY BRIDGE OVER PDD MAIN CANAL 2**  
**PALM BEACH COUNTY PROJECT #2012515**



**LOCATION MAP**

**ATTACHMENT 2**

**TASK AUTHORIZATION TO ANNUAL AGREEMENT BETWEEN**

**PALM BEACH COUNTY  
AND  
R.J. BEHAR & COMPANY, INC.**

**FOR PROFESSIONAL ENGINEERING SERVICES ON**

**HATTON HIGHWAY BRIDGE OVER PDD MAIN CANAL 2  
BRIDGE REHABILITATION / REPLACEMENT  
PROJECT NO.: 2012515  
PALM BEACH COUNTY, FLORIDA**

**THIS TASK AUTHORIZATION TO THE ANNUAL AGREEMENT**, made and entered into this day of \_\_\_\_\_ 2012 by and between Palm Beach County, hereinafter called the **COUNTY**, and R.J. Behar & Company, Inc., a Florida Corporation with an address of 6861 S.W. 196<sup>th</sup> Avenue, Suite 302, Pembroke Pines, Florida 33332, hereinafter called the **CONSULTANT**.

**WITNESSETH**

**WHEREAS**, the **COUNTY** and **CONSULTANT** entered into an Annual Agreement for Structural Engineering on a task order basis on February 15, 2011 (R2011-0175).

**WHEREAS**, the **COUNTY** desires the **CONSULTANT** to perform structural engineering services for the Hatton Highway Bridge over PDD Main Canal 2 Bridge Rehabilitation / Replacement, Palm Beach County, Florida (hereinafter called the **PROJECT**); and,

**WHEREAS**, the **CONSULTANT** agrees to perform the structural engineering services required for preparing a bridge replacement design, including related documents for the **PROJECT**; and,

**Re: Hatton Highway Bridge over PDD Main Canal 2  
Bridge Rehabilitation / Replacement  
Project No.: 2012515**

**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 \$168,348.97;

Optional Services (Not to Exceed) \$16,190.33;

Reimbursable Expenses capped at \$56,854.50;

Totaling \$241,393.80.

**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 Authorization known as "SCOPE OF WORK & FEE".
2. The **CONSULTANT** agrees to "CERTIFICATION" statements as described in Exhibit "B" of the Authorization.
3. The **CONSULTANT** agrees to Small Business Enterprise (SBE) Participation, described in Exhibit "C" of the Authorization.
4. The **CONSULTANT** has provided a sub-consultant Letter of Intent to perform as an SBE as described in Exhibit "D" of the Authorization.
5. The **COUNTY** agrees to pay the **CONSULTANT** a fee of Two Hundred Forty-One Thousand Three Hundred Ninety-Three Dollars and Eighty Cents (\$241,393.80).

Except as hereby amended, changed or modified, all other terms, conditions and obligations of the Agreement dated **February 15, 2011 (R2011-0175)**, shall remain in full force and effect.

Re: Hatton Highway Bridge over PPD Main Canal 2  
Bridge Rehabilitation / Replacement  
Project No.: 2012515

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Authorization 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: \_\_\_\_\_  
Shelley Vana, Chair

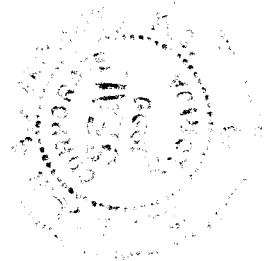
CONSULTANT:

R.J. Behar & Company, Inc.  
a Florida Corporation

BY: \_\_\_\_\_  
Robert J. Behar, P.E., President

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

CORPORATE SEAL



BY: \_\_\_\_\_  
Deputy Clerk

WITNESS:

BY: \_\_\_\_\_  
Dereth Behar

SEAL

Dereth Behar  
(Printed Name)

APPROVED AS TO TERMS  
AND CONDITIONS:

BY: \_\_\_\_\_  
Orlando A. Fernandez

BY: \_\_\_\_\_  
Juan H. Vazquez, PE

APPROVED AS TO FORM & LEGAL  
SUFFICIENCY:

Juan H. Vazquez, PE  
(Printed Name)

\_\_\_\_\_  
COUNTY ATTORNEY

**EXHIBIT "A"**

**REVISED FEE PROPOSAL**

**For**

**BRIDGE REPLACEMENT  
HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**

**PALM BEACH CO. PROJECT NO. 2012515**

**For**

**PALM BEACH COUNTY**

**Prepared By:**

**R.J. BEHAR & COMPANY, INC.  
RJB PROJ. No. 650714**

**June 7, 2012**



**Bridge Replacement for Hatton Highway  
Palm Beach County Project No. 2012515  
SCOPE OF SERVICES**

Exhibit "A" - Page 2 of 28

**1.0 PROJECT DESCRIPTION**

- 1.1** Palm Beach County Road and Bridge Division has determined to replace the existing Bridge over Pahokee Water Control District's Canal No. 2, in western Palm Beach County, Florida. Please refer to Exhibit A, at the end of this section, for reference location map and project aerial.

**2.0 BASIS OF SCOPE**

**2.1 Bridge Replacement Design**

The County has requested replacement of the existing 4 span bridge which is approximately 60' long, Bridge PB # 934512. The bridge replacement design is anticipated to locate the new structure with sufficient clear distance from the existing FPL 138 Kv overhead transmission lines, along the east side of Hatton Highway. Further, the design may require some canal modifications to the No. 2 Canal, which the bridge crosses), maintained by Pahokee Water Control District. The bridge design is based on providing a similar 3 span arrangement over the canal, 60' clear. The bridge cross section is anticipated to include two 12' lanes with 8' shoulders, concrete barriers and no provision for sidewalks. Wing Walls and slope protection will be designed to accommodate the new typical section and new highway and bridge alignment. The bridge design elements will be developed in accordance with Palm Beach County Thoroughfare Road and Bridge Design Procedures; including the preparation of construction contract documents to be submitted to the County for review, at the appropriate design phase, tentatively according to our proposed schedule (see Section 4 – Design Schedule).

**2.2 Roadway & Civil Design**

Hatton Highway will be reconstructed as necessary to accommodate the selected bridge replacement. The alignment will develop sufficient offset from the FPL Transmission lines without requiring relocation of the power facilities. The impacts to the adjacent canals will be minimized. The two lane highway design will be based on a 60 mph design speed (55 mph posted) for two 12' lanes with 8' shoulders and is expected to maintain a non-superelvated alignment for the rural highway. The highway construction, for the bridge replacement is anticipated to be between 2,400' to 3,600' in length. The bridge is expected to include two 30' concrete bridge approach slabs. Some demucking is anticipated adjacent to the Lateral 12 Canal, located on the west side of Hatton Highway which is also maintained by Pahokee Water Control District. Canal modifications, revetment and minor retaining walls may be required at the approach to the bridge. The highway and civil design elements will also be developed in accordance with Palm Beach County Thoroughfare Road

Design Procedures; including the preparation of construction contract documents to be submitted to the County for review, at the appropriate design phase, tentatively according to our proposed schedule (see Section 4 – Design Schedule).

- 2.3 **Drainage:** It is assumed that no additional drainage facilities, including swales, will be included to provide water quality for this project, due to the increased impervious pavement. Drainage runoff will continue to flow directly in to the adjacent canals, ditches and fields, as in the current existing situation with respect to existing runoff patterns.
- 2.4 **Utilities:** Assistance for utility coordination will be required. Only an FPL Overhead Transmission line (138 Kv) are present within the project limits. Coordination with FPL, who owns an easement along the southeast quadrant, approaching the bridge will be required. Any other utilities, will be identified if present, however, presently no relocations are anticipated.
- 2.5 **Maintenance of Traffic:** A traffic control plan will be developed for the project in order to meet with local agency officials to discuss the proposed construction. It is anticipated that the roadway may be closed for construction and a detour, around the project construction, with provisions for local access will be developed for this project. No public involvement is included in this effort.
- 2.6 **Permitting:** The Hatton Highway Bridge crosses over Canal No. 2 owned by Pahokee Water Control District (PWCD) who will require a general permit. It is anticipated that SFWMD will be exempt from a permit, while the USACE should grant a Nationwide permit. The NPDES permit requirements will be the responsibility of the selected contractor.
- 2.7 **Coordination:** RJ Behar will attend all appropriate meetings in support of project requirements, including meetings with Utility Owners, Permitting Agencies and Palm Beach County's other involved Departments, including Road and Bridge and Traffic. No public involvement meeting or special effort has been included. These meetings and coordination efforts have been identified in the attached staffhour distributions with respect to the associated discipline.
- 2.8 **Geotechnical Engineering:**  
See attached Section B for the geotechnical scope of service.
- 2.9 **Survey:**  
See attached Section C for the survey scope of service.

### 3.0 SCOPE OF BASIC SERVICES AND FEE

The cost breakdown for each element is attached for your review.

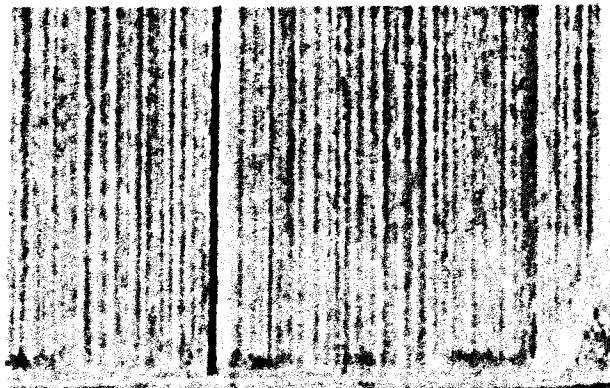
### 4.0 PROPOSED SCHEDULE

The proposed schedule is based on developing this project within Palm Beach County's larger bridge replacement program. The schedule of plan delivery is based on input from the project scoping meeting and the County's initial priorities. We would certainly be happy to discuss any modification to the proposed schedule in order to better meet the County's needs.

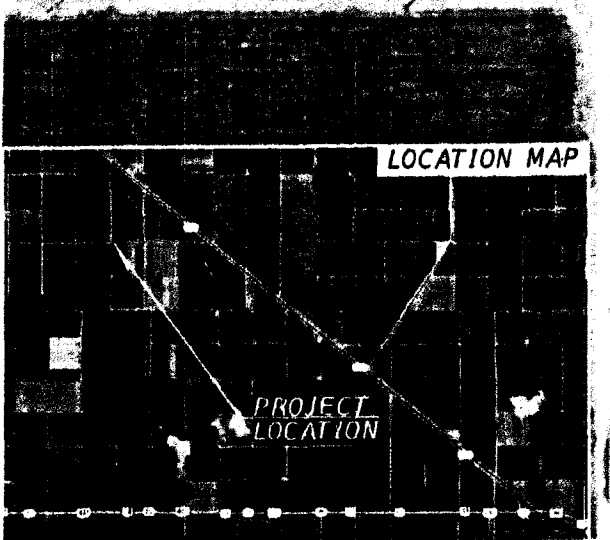
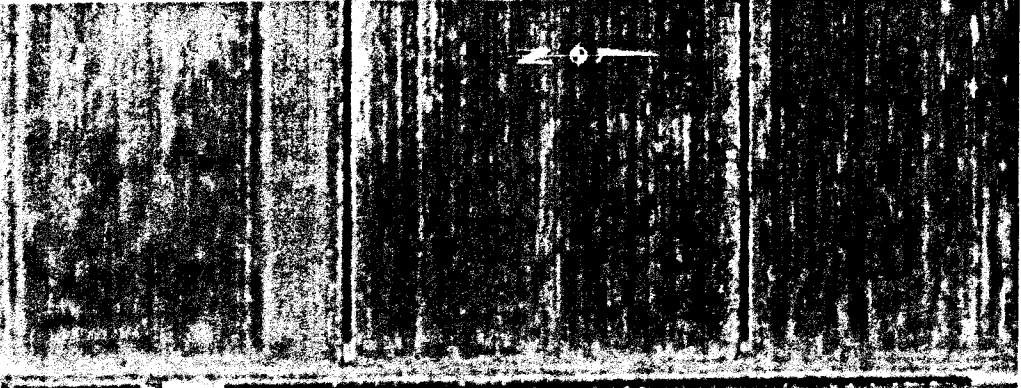
The schedule of activities will follow:

1. Survey
2. Meet Permit Agencies & Utility owners concurrent with survey
3. Prepare & submit Preliminary Engineering Evaluation
4. 35% plans and submittal (submittal to be of sufficient detail for 35% plans & permit submittal)
  - a) Client review
  - b) Update plans per review comments
5. 65% plans and submittal (submittal to be of sufficient detail for 65% plans & permit submittal)
  - a) Client review
  - b) Update plans per review comments
6. Utility Conference
7. Submit permits
8. Receive permits
9. 96% plans and submittal
  - a) Prepare and submit utility plans to affected utility owners
  - b) Client review
  - c) Update plans per review comments
10. Prepare and submit 100% plans, Specifications Package, Estimate and Contract Documents
  1. Client review
  2. Update plans, specifications and contract package per review comments
11. Prepare and submit 100% plans, Specifications Package, Estimate and Contract Documents

As illustrated in Exhibit B, the delivery of contract documents should require 21 months from Notice to proceed. The project schedule will be revised in accordance to the agreed schedule of delivery before conclusion of contract negotiations and notice to proceed.



CANAL NO. 2



LOCATION MAP

PROJECT LOCATION



**R. J. SENAR & COMPANY, INC.**  
Engineers - Planners  
2000 N. W. 10th Ave.  
Fort Lauderdale, FL 33309  
Tel: (305) 461-1111  
Fax: (305) 461-1112

SCALE	DATE	BY	CHK



**PALM BEACH COUNTY**  
ENGINEERING AND PUBLIC WORKS  
**ROADWAY PRODUCTION**  
200 ONE STOP  
WEST PALM BEACH, FL 33411

SCALE 1"=50'  
APPROVED  
DESIGNED BY  
DATE  
PROJECT NO.

**EXHIBIT A**

SHEET 1  
OF 2  
PROJECT NO.

Exhibit "A" - Page 5 of 28

**REVISED FEE PROPOSAL**

**For**

**BRIDGE REPLACEMENT  
HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**

**PALM BEACH CO. PROJECT NO. 2012515**

**For**

**PALM BEACH COUNTY**

**Prepared By:**

**R.J. BEHAR & COMPANY, INC.**

**RJB PROJ. No. 650714**

**ROADWAY & STRUCTURAL**

**Section A**

**June 7, 2012**

**REVISED FEE PROPOSAL SUMMARY**  
**BRIDGE REPLACEMENT**  
**HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**  
 PALM BEACH CO. PROJECT NO. 2012515  
 R. J. BEHAR & COMPANY, INC.  
 RJB PROJ. No. 850714

ACTIVITY	PROJECT MANAGER		SENIOR ENGINEER		ENGINEER		INTERN ENGINEER		CADD TECHNICIAN		MHR BY ACTIVITY	TOTAL COST BY ACTIVITY
	MAN HOURS	\$ \121.00 HOURLY RATE	MAN HOURS	\$ \144.00 HOURLY RATE	MAN HOURS	\$ \93.40 HOURLY RATE	MAN HOURS	\$ \81.49 HOURLY RATE	MAN HOURS	\$ \64.33 HOURLY RATE		
1. Design Analysis	9	\$ 1,089.00	71	\$ 10,224.00	53	\$ 4,950.20	9	\$ 733.41	36	\$ 2,315.88	\ 178	\$ 19,312.49
2. Roadway Plans	18	\$ 2,178.00	142	\$ 20,448.00	107	\$ 9,993.80	18	\$ 1,466.82	71	\$ 4,567.43	\ 356	\$ 38,654.05
3. Drainage Analysis	4	\$ 484.00	33	\$ 4,752.00	25	\$ 2,335.00	4	\$ 325.96	16	\$ 1,029.28	\ 82	\$ 8,928.24
4. Utilities	1	\$ 121.00	6	\$ 864.00	4	\$ 373.60	1	\$ 81.49	2	\$ 128.66	\ 14	\$ 1,588.75
5. Permits	4	\$ 484.00	28	\$ 4,032.00	21	\$ 1,961.40	4	\$ 325.96	13	\$ 836.29	\ 70	\$ 7,839.65
6. Bridge & Structures	37	\$ 4,477.00	441	\$ 63,504.00	74	\$ 6,911.60	37	\$ 3,015.13	146	\$ 9,392.18	\ 735	\$ 87,299.91
7. Signing & Marking	2	\$ 242.00	18	\$ 2,592.00	14	\$ 1,307.60	2	\$ 162.98	10	\$ 643.30	\ 46	\$ 4,947.88
* 8. Construction Services (Optional Services)	7	\$ 847.00	60	\$ 8,640.00	45	\$ 4,203.00	7	\$ 570.43	30	\$ 1,929.90	\ 149	\$ 18,190.33
<b>TOTAL</b>	<b>82</b>	<b>\$ 9,922.00</b>	<b>799</b>	<b>\$ 115,056.00</b>	<b>343</b>	<b>\$ 32,036.20</b>	<b>82</b>	<b>\$ 6,682.18</b>	<b>324</b>	<b>\$ 20,842.92</b>	<b>\ 1630</b>	<b>\$ 184,539.30</b>

TOTAL CONTRACT FEE COMPUTATION	
SUBTOTAL Basic Fee	\$ \ 184,539.30
<b>DIRECT EXPENSES</b>	
(b) Tierra South, Inc. (Geotechnical)	\$ \ 28,005.00
(c) Greenhorne & O'Mara, Inc. (Survey)	\$ \ 21,607.01
(d) PWCD Permit Fee	\$ \ 5,000.00
(e) SFWMD Permit Fee	\$ \ 1,500.00
(e) Direct Reimbursables:	\$ \ 742.49
<b>SUBTOTAL EXPENSES</b>	<b>\$ \ 56,854.50</b>
<b>TOTAL:</b>	<b>\$ \ 241,393.80</b>

*2.4797 multiplier*

Exhibit "A" - Page 7 of 28



**REVISED FEE PROPOSAL**  
**BRIDGE REPLACEMENT**  
**HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**  
**PALM BEACH CO. PROJECT NO. 2012515**  
**R.J. BEHAR & COMPANY, INC.**  
**2. ROADWAY PLANS**

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
1 Key Sheet	SHEET	1	12	1	12	
2 Typical Section	SHEET	1	12	1	12	1 Rdwy Typ Section; 6 hrs Brdg App, Wall , Details 6 hrs
3 General Notes	SHEET	1	8	1	8	
4 Summary of Quantities	SHEET	1	16	1	16	
5 Summary of Drainage Structures	SHEET	0	0	0	0	N/A
6 Plan	SHEET	5	20	5	100	
7 Profile	SHEET	5	8	5	40	
8 Miscellaneous Details Sheets	SHEET	1	24	2	24	Canal Lining, Turn-out GR; 6 @ 4hr EA
9 Drainage Structure Sheets	SHEET	1	20	1	20	Outfall, Control Structures
10 Cross Sections	EA	12	8	12	96	60 x-secs/ 5 per sht @ 8 hrs
11 Traffic Control Sheets	SHEET	1	16	1	16	1 Detour Plan (12 hr) + 1 Mtg w/ Local & PBCo P&R. (4 hr)
12 Utility Adjustment Sheets	SHEET	0	0	0	0	N/A
13 Erosion Control Plan	SHEET	1	0	0	0	NPDES / SWPPP done by Contractor
14 SWPPP	SHEET	0	0	0	0	N/A
15 Pavement Design					0	N/A
16 Canal Relocations Cross Sections	Sheet	6	2	2	12	6 Sections 550' Total at 100'
<b>TOTAL</b>				32	356	

Exhibit "A" - Page 9 of 28



**REVISED FEE PROPOSAL**  
 BRIDGE REPLACEMENT  
 HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2  
 PALM BEACH CO. PROJECT NO. 2012515  
 R.J. BEHAR & COMPANY, INC.  
**3. DRAINAGE ANALYSIS**

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
1. Base Clearance	EA	0	0		0	
2. Design of Cross Drains	EA	0	0		0	No new cross drains
3. Design of Roadway Ditches	EA	1	0		0	No Swales
4. Design of Outfalls	EA	2	4		8	2 Exist Structures at 4 hrs EA
5. Design of Stormwater Management Facility	LS	1	0		0	No Water Quality Calcs
6. Design of Storm Drains	LS	0	0		0	No drainage structures to collect runoff
7. Design of Canal Modifications	LS	1	42		42	150' Canal No. 2 Full Width 400' Lat 12 half width
8. Drainage Design Report	L.S.	1	0		0	N/A
9. Scour Calculations	LS	1	24		24	Bridge Scour to determine Pile length
10. Field Reviews	EA	1	8		8	
TOTAL					82	

Exhibit "A" - Page 10 of 28

**REVISED FEE PROPOSAL**  
 BRIDGE REPLACEMENT  
 HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2  
 PALM BEACH CO. PROJECT NO. 2012515  
 R.J. BEHAR & COMPANY, INC.  
 4. UTILITIES

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
1. Initial Contact	L.S.	2	2	1	4	Assume 2 UTILITY OWNER Prepare 2 sets per utility
2. Draft Utility information in plans	EA	1	2		2	1 utility x 2 hours
3. First Utility Design (Pot Hole) Meeting	EA	0	0	0	0	
4. Prepare Potential Utility Conflict and Pothole list	LS	0	0		0	
5. Coordination with Utility Companies	EA	1	2		2	Calls and follow up Update Matrix
6. Plans for Final Utility Coordination Meeting	LS	1	2	1	2	
7. Final Utility Coordination Meeting	LS	1	2	0	2	1 person attending prepare minutes
8. Pre Advertising Meeting	LS	1	2	0	2	1 person attending prepare minutes
TOTAL				2	14	

Exhibit "A" - Page 11 of 28

**REVISED FEE PROPOSAL**  
 BRIDGE REPLACEMENT  
 HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2  
 PALM BEACH CO. PROJECT NO. 2012515  
 R.J. BEHAR & COMPANY, INC.

**5. PERMITS**

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
1. Preliminary Project Research	L.S.	1	8		8	
2. Pahokee Water Control District General Permit	LS	1	24		24	1 application Follow up
3. SFWMD ERP Permit	LS	1	12		12	2 applications (letter) SFWMD & USACOE (for Exemption)
4. Fill and Dredge Sketches	EA	6	3	3	18	Six Sections 3 Shts
5. ROW Occupancy	EA	0	0		0	N/A
6. Meetings	EA	2	4		8	3 meetings - one person W/ permitting agencies
TOTAL					70	

Exhibit "A" - Page 12 of 28

**REVISED FEE PROPOSAL**  
 BRIDGE REPLACEMENT  
 HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2  
 PALM BEACH CO. PROJECT NO. 2012515  
 R.J. BEHAR & COMPANY, INC.  
**6. BRIDGE & STRUCTURES**

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
<b>PRELIMINARY ENGINEERING EVALUATION</b>	LS	1	30		30	Retaining Wall Type, Bridge Length & Layout
<b>BRIDGE PLANS</b>						
B1 = Index of Sheets & Summary of Quantities	SHEET	1	46	1	46	Also includes quantity calcs & cost estimate
B2 = General Notes & Bid Item Notes	SHEET	1	14	1	14	
B3 - B17 = FDOT Standard Drawings	SHEET	15	0.5	15	7.5	420, 820, 822, 20600-20602, 20618, 20910, 21110, 21300
B18 = Plan & Elevation	SHEET	1	56	1	56	
B19 = Report of Core Borings	SHEET	1	8	1	8	Also includes technical coordination with Geotech Eng
B20 = Pile Layout	SHEET	1	36	1	36	Also Incl design calcs for piles + Min Pile Length
B21 = End Bents	SHEET	1	48	1	48	Also includes cap design calcs & Skewed Elev
B22 = End Bent Details (1 of 2)	SHEET	1	28	1	28	
B23 = End Bent Details (2 of 2)	SHEET	1	28	1	28	
B24 = Intermediate Bents	SHEET	1	48	1	48	Also includes cap design calcs & Skewed Elev
B25 = Precast Concrete Sheet Piling	SHEET	1	34	1	34	Also Incl design calcs & detail for pipe holes
B26 = Prestressed Slab Units (1 of 4)	SHEET	1	50	1	50	Also Incl design calcs for slab units & Skewed Details
B27 = Prestressed Slab Units (2 of 4)	SHEET	1	32	1	32	
B28 = Prestressed Slab Units (3 of 4)	SHEET	1	32	1	32	
B29 = Prestressed Slab Units (4 of 4)	SHEET	1	32	1	32	
B30 = Misc. Structural Details	SHEET	1	32	1	32	Revetment, permit mandated details
B31 = Special Approach Slab	SHEET	2	24	1	48	Ap Slabs = non-uniform width
B32 = Bill of Reinforcing Steel	SHEET	1	48	1	48	Substructure, Superstructure & Appr Slabs
B33 = LRFR	SHEET	1	16	1	16	
EB1 - EB11 = Existing Bridge Plans	SHEET	11	0.5	11	5.5	Pickup from PBC, trim, scan, modify & include in plans
Permit Sketches	LS	1	12		12	Does not include applications & coordination w/ Agencies
Meetings with Permit Agencies	LS	1	4		4	Includes attendance by Bridge Engineer
Utility Meeting	LS	1	4		4	Includes attendance by Bridge Engineer
Design Meetings with Palm Beach County	LS	3	4		12	Includes attendance by Bridge Engineer
Field Measurements	LS	4	6		24	
<b>BRIDGE PLANS TOTAL</b>				44	705	
<b>RETAINING WALL PLANS</b>					0	Manhours to be submitted after Prelim Eng Eval
<b>BRIDGE TOTAL</b>					735	

**REVISED FEE PROPOSAL**  
 BRIDGE REPLACEMENT  
 HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2  
 PALM BEACH CO. PROJECT NO. 2012515  
 R.J. BEHAR & COMPANY, INC.  
**7. SIGNING & MARKING**

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
1. Key Sheet	SHEET	1	4	1	4	
2. Tabulation of Quantities	SHEET	1	4	1	4	
3. General Notes	SHEET	1	4	1	4	
4. Plan Sheets	SHEET	2.5	12	1	30	2 tier
5. Typical Details	SHEET	1	4	0	4	Bridge Deck (Cross Striping)
TOTAL				4	46	

Exhibit "A" - Page 14 of 28

6/5/2012

**REVISED FEE PROPOSAL**  
**BRIDGE REPLACEMENT**  
**HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**  
**PALM BEACH CO. PROJECT NO. 2012514**  
**R.J. BEHAR & COMPANY, INC.**  
**8. CONSTRUCTION SERVICES**

TASK	BASIS OF ESTIMATE	NO. OF UNITS	HRS/ UNIT	NO. OF SHEETS	TOTAL HOURS	REMARKS
<b>STRUCTURAL:</b>						
Shop Drawings	EACH	12	4	0	48	See Note 1
RFI's	EACH	8	2	0	16	
Site Inspections	EACH	6	4	0	24	2.5 Hour Mtg & travel + 1.5 hour followup = 4 Hours/Unit
Progress Meetings	EACH	6	3.5	0	21	2.5 Hour Mtg & travel + 1.0 hour followup = 3.5 Hours/Unit
Sub-Total					109	
<b>ROADWAY:</b>						
Shop Drawings	EACH	4	4	0	16	See Note 2
RFI's	EACH	4	2	0	8	
Site Inspections	EACH	2	2	0	4	
Progress Meetings	EACH	4	2	0	8	
Plan Clarifications	EACH	0	0	0	0	
As-Built Plans	EACH	1	4	0	4	
Sub-Total					40	
<b>GEOTECH:</b>						
File Driving Submittal						Performed by County
Test Pile Monitoring (PDA)						
Resolve Pile Driving Issues						
<b>PERMITS:</b>						
Agency	EACH	1	0		0	N/A
Construction Certification	EACH	1	0		0	
					0	
<b>BRIDGE PLANS TOTAL</b>					<b>149</b>	

NOTES: (1) Shop drawings anticipated: Test piles, MSE Walls, Prestr Slab Units, Polymer Nosing, Rapid Hardening Mortar, Exp Joint Seal, P/T Anchors, Concrete Mix Designs (8 submittals, 2 resubmittals & 2 additional submittals = 12 submittals)  
 (2) Shop drawings anticipated: Guardrail, misc. Details

6/5/2012

**REVISED FEE PROPOSAL**  
**BRIDGE REPLACEMENT**  
**HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**  
**PALM BEACH CO. PROJECT NO. 2012515**  
**R.J. BEHAR & COMPANY, INC.**  
**9. EXPENSES**

EXPENSE ITEM						
A. REPRODUCTION	NO. OF SETS	NO. OF SHEETS	11"x17"	8 1/2"x11"	8 1/2"x14" COMP BOOK	TOTAL COST
Permits	4	20	20	80		
	0	0	0			
Utility Contact	2	10	20			
Typical Sections Package	4	4	16			
Master Plan	0	0	0			
Phase I(Roadway)	6	40	240			
Drainage Report Initial	3	30		90		
Drainage Report Final	3	40		120		
Phase II A (Roadway)	4	45	180			
Phase III A (Roadway)	4	45	180			
Phase IV (Roadway)	5	45	225			
Comp Book (Roadway)	6	20				0
Design Calcs (Bridge) 35%	6	100	0	600		
Design Calcs (Bridge) 100%	6	150	0	900		
Design Calcs (Bridge) 66%	6	200	0	1200		
Design Calcs (Bridge) 100%	6	200	0	1200		
Design Calcs (Bridge) Final	6	200	0	1200		
Comp Book (Bridge)	6	10	168	60		0
35% Plans (Bridge)	6	28	168			
65% Plans (Bridge)	7	35	245			
96% Plans (Bridge)	7	42	294			
100% Plans (Bridge)	7	42	294			
Final Plans (Bridge)	7	42	294			
Subtotal			✓ 2344	✓ 5450		0
Cost Per Sheet			\$ 0.10	\$ 0.06	\$ 0.07	
Subtotal			✓ \$ 234.40	✓ \$ 327.00	\$ -	✓ \$ 561.40
C. SHIPPING/POSTAGE			NO. OF PACKAGES		UNIT COST	TOTAL COST
Boxes Overnight Delivery (upto 5 lbs.)						
One per month (6 mo.)			7		\$ 15.61	\$ ✓ 109.27
Overnight Mail Letter						
One per month (6 mo.)			7		\$ 10.26	\$ ✓ 71.82
Subtotal						\$ ✓ 181.09
<b>TOTAL EXPENSES</b>						\$ ✓ 742.49

5/4/2012

**REVISED FEE PROPOSAL**  
 BRIDGE REPLACEMENT  
 HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2  
 PALM BEACH CO. PROJECT NO. 2012515  
 R.J. BEHAR & COMPANY, INC.

**10. WAGE RATES**

**SALARY AND WAGE SUPPORT**

Project Duration: 21 MONTHS  
 Begin Date: 5/15/2012  
 Escalation 0 %

<b>BURDENED CONTRACT RATES</b>	
PROJECT MANAGER	\$ ✓ 121.00
SENIOR ENGINEER	\$ ✓ 144.00
ENGINEER	\$ ✓ 93.40
ENGINEERING INTERN	\$ ✓ 81.49
CADD/ COMP TECHNICIAN	\$ ✓ 64.33

*2.4797 multiplier*



**REVISED FEE PROPOSAL**

**For**

**BRIDGE REPLACEMENT  
HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**

**PALM BEACH CO. PROJECT NO. 2012515**

**For**

**PALM BEACH COUNTY**

**Prepared By:**

**TIERRA SOUTH, INC.**

**GEOTECHNICAL ENGINEERING  
Section B**

**May 4, 2012**



Exhibit "A" - Page 19 of 28

Revised April 17, 2012  
Revised March 23, 2012  
Revised February 24, 2012  
February 20, 2012

R J Behar & Company  
12788 W Forest Hill Blvd, Ste 2003B  
Wellington, FL 33414

Attn: Mr. Sean O'Keefe, P.E.

Re: **Proposal for Geotechnical Services**  
**Proposed Roadway Widening and Bridge Replacement**  
**Hatton Highway Bridge over PDD Canal # 2**  
**Palm Beach County, Florida**  
**TSF Proposal No.: 1202-068**

Dear Sean:

As requested, TIERRA SOUTH FLORIDA, INC. (TSF) is pleased to submit this proposal for the above-referenced project. The proposal is based on an email dated April 16, 2012 from Mr. Sean O'Keefe, P.E. of R J Behar & Company. This proposal includes an outline of our proposed scope of work, an estimate of the total fees, and our anticipated schedule for completion of the work.

#### **PROPOSED SCOPE OF WORK**

All work performed by TSF will be in general accordance with Palm Beach County and FDOT standards. The proposed scope work for the improvement is as follow:

- 1) We understand that the project will include 2,500 linear feet of roadway widening to the north and south of the bridge. We have been requested to drill a total 13 auger borings to a depth 10 feet, and
- 2) Bridge Replacement and ring wall, we propose to drill four (4) SPT borings to a depth of 75 feet below existing grade
- 3) Obtain grab sample from canal bottom and provide D-50/D-100 information for scour analysis

R J Behar & Company  
TSF Proposal No. 1202-068

2

Boring locations will be approximately located in the field by our personnel by measuring distances with a tape from known reference points. Elevations at boring locations can be interpreted from topographic plans if furnished by others.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned utilities. Our proposal assumes that private utility lines will be located in the field by others prior to mobilization of the drill rig.

Upon completion of the field exploration, laboratory testing will be performed on selected samples. The study will be summarized in accordance with the FDOT's Soil and Foundation Manual.

A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report will be issued that contains the exploration data, a discussion of the site and subsurface conditions, roadway soil survey, foundation design for the bridge/wall and a discussion of some construction considerations.

#### **ESTIMATED FEES**

It is proposed that the fee for the performance of the services outlined above be determined on a unit price basis in accordance with the attached Fee Schedule and that the work be performed pursuant to TSF's General Conditions enclosed herewith and incorporated into this proposal. The estimated fees for the project are attached.

Our estimate covers the work needed to present our findings and recommendations in a formal report. Not included are reviews of drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report.

#### **SCHEDULE AND AUTHORIZATION**

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting and permit approval). The fieldwork will take about two weeks to complete. The written report

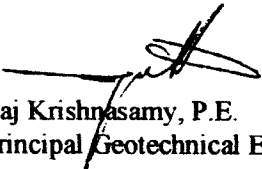
R J Behar & Company  
TSF Proposal No. 1202-068

can be submitted about three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

*TIERRA SOUTH FLORIDA, INC.*

  
Raj Krishnasamy, P.E.  
Principal Geotechnical Engineer/ President

Attachments: 1. Fee Estimate

AUTHORIZED BY:	INVOICE TO:
Name:	Firm:
Title:	Name:
Date:	Address:

**TIERRA SOUTH FLORIDA, INC.  
ROADWAY**

	Unit	# of Units	Unit Price		Total
<b>I. FIELD INVESTIGATION</b>					
Mobilization of Men and Equipment Truck-Mounted Equipment	Trip	1	\$	350.00 \$	✓ 350.00
SPT Borings 0 - 50 ft depth	L.F.	0	\$	12.00 \$	0.00
Grout Boreholes 0 - 50 ft depth	L.F.	0	\$	5.50 \$	0.00
Casing Allowance 0 - 50 ft depth	L.F.	0	\$	7.00 \$	0.00
Percolation Test	Test	0	\$	275.00 \$	0.00
Roadway Auger Borings	L.F.	130	\$	9.00 \$	✓ 1,170.00
Pavement Cores	Each	0	\$	85.00 \$	0.00
Generator Rental	Day	0	\$	150.00 \$	0.00
Pavement Evaluation	Hour	0	\$	100.00 \$	0.00
Traffic Control (1-man crew with safety equipments)	Day	0	\$	1200.00 \$	0.00
<b>II. LABORATORY TESTING</b>					
Lab Assignment & Examination by Staff Engi	Hour	4	\$	85.00 \$	✓ 340.00
Natural Moisture Content Tests	Test	6	\$	10.00 \$	✓ 60.00
Grain-Size Analysis - Full Gradation	Test	6	\$	60.00 \$	✓ 360.00
Grain-Size Analysis - Single Sieve	Test	0	\$	30.00 \$	0.00
Organic Content Tests	Test	6	\$	45.00 \$	✓ 270.00
LBR	Test	0	\$	300.00 \$	0.00
Environmental Tests (pH, sulfates, chlorides, resistivity)	Set	4	\$	185.00 \$	✓ 740.00
<b>III. FIELD ENGINEERING AND TECHNICAL SERVICES</b>					
Site Recon./Utility Coordination Sr. Engineering Technician	Hour	8	\$	65.00 \$	✓ 520.00
<b>IIIA. ENGINEERING AND TECHNICAL SERVICES</b>					
Pavement Evaluation Report	LS	0	\$	1000.00 \$	✓ 0.00
Principal Engineer	Hour	2	\$	145.00 \$	✓ 290.00
Senior Geotechnical Engineer	Hour	4	\$	125.00 \$	✓ 500.00

TIERRA SOUTH FLORIDA, INC.  
ROADWAY

	Unit	# of Units	Unit Price	Total
Project Engineer	Hour	12	\$ 115.00	\$ 1,380.00 ✓
Draftperson	Hour	6	\$ 60.00	\$ 360.00 ✓
<b>TOTAL FEE FOR GEOTECHNICAL SERVICES-Roadway</b>			<b>\$</b>	<b>6,340.00 ✓</b>

**TIERRA SOUTH FLORIDA, INC.  
STRUCTURES**

	Unit	# of Units	Unit Price		Total
<b>I. FIELD INVESTIGATION</b>					
Mobilization of Men and Equipment					
Truck-Mounted Equipment	Trip	0	\$	350.00	\$ 0.00
SPT Borings 0 - 50 ft depth	L.F.	200	\$	12.00	\$ 2,400.00
SPT Borings 51 - 100 ft depth	L.F.	100	\$	14.00	\$ 1,400.00
Grout Boreholes 0 - 50 ft depth	L.F.	200	\$	5.50	\$ 1,100.00
Grout Boreholes 51 - 100 ft depth	L.F.	100	\$	6.50	\$ 650.00
Casing Allowance 0 - 50 ft depth	L.F.	200	\$	7.00	\$ 1,400.00
Casing Allowance 50 - 100 ft depth	L.F.	100	\$	8.00	\$ 800.00
Percolation Test	Test	0	\$	275.00	\$ 0.00
Roadway Auger Borings	L.F.	0	\$	9.00	\$ 0.00
Traffic Control (See attached) (1-man crew with safety equipments)	Hours	32	\$	80.00	\$ 2,560.00
<b>II. LABORATORY TESTING</b>					
Lab Assignment & Examination by Staff Eng	Hour	3	\$	85.00	\$ 255.00
Natural Moisture Content Tests	Test	6	\$	10.00	\$ 60.00
Grain-Size Analysis - Full Gradation	Test	12	\$	60.00	\$ 720.00
Grain-Size Analysis - Single Sieve	Test	0	\$	30.00	\$ 0.00
Organic Content Tests	Test	4	\$	45.00	\$ 180.00
Atterberg Limit Tests	Test	0	\$	70.00	\$ 0.00
Environmental Tests (pH, sulfates, chlorides, resistivity)	Set	4	\$	185.00	\$ 740.00
<b>III. FIELD ENGINEERING AND TECHNICAL SERVICES</b>					
Site Recon./Utility Coordination/MOT Sr. Engineering Technician	Hour	16	\$	65.00	\$ 1,040.00
<b>IIIA. ENGINEERING AND TECHNICAL SERVICES</b>					
Principal Engineer	Hour	4	\$	145.00	\$ 580.00
Senior Geotechnical Engineer	Hour	40	\$	125.00	\$ 5,000.00
Project Engineer	Hour	20	\$	115.00	\$ 2,300.00
Draftperson	Hour	8	\$	60.00	\$ 480.00
<b>TOTAL FEE FOR GEOTECHNICAL SERVICES-Bridge &amp; Wall</b>					<b>\$ 21,665.00</b>

**REVISED FEE PROPOSAL**

**For**

**BRIDGE REPLACEMENT  
HATTON HIGHWAY BRIDGE OVER PDD CANAL # 2**

**PALM BEACH CO. PROJECT NO. 2012515**

**For**

**PALM BEACH COUNTY**

**Prepared By:**

**GREENHORNE & O'MARA, INC.**

**SURVEY AND SUBSURFACE UTILITY ENGINEERING (SUE)  
Section C**

**June 5, 2012**



**Survey Scope of Service**

Greenhome & O'Mara will provide the following survey services for Hatton Highway.

1. Roadway Survey:

- Establish Roadway Baseline 3,600ft.; 2,100 ft. north and 1,500 ft. south of the center of the bridge. Set the begin and end stations only. Set two permanent Bench Marks away from construction that can be used by the county for as-builts.
- Provide Topography, including DTM; coverage south of the bridge from the east Right-of-Way to 5' beyond west outside top-of-bank; coverage north of the bridge will be the same as the south for the first 300ft. north from there the DTM and Topographic coverage limits will be Right of Way to Right of Way for Hatton Hwy.
- The canal baseline will be perpendicular to the bridge starting west of the bridge 150ft. and extend 100ft. east of the bridge for a total 250 ft. The canal DTM coverage will include the two farm roads north and south of the canal. All Canal sections will be included in the DTM as cross sections (shown as spot elevations) from edge-of-water to edge-of-water. There will be 5 canal sections plus 3 sections under bridge in canal.
- Provide ditch cross sections in the west ditch parallel to Hatton Hwy. for the length of the project at 100 ft. intervals. There are 29 sections; 3 sections in west canal north of the bridge and 15 sections in the south canal west side of Hatton Hwy.

2. Bridge Survey Items:

- Provide the existing bridge low member elevation at midspan on the east and west side of the bridge.
- Provide a DTM for the bridge. Please get shots at the begin and end bridge at all breaks in elevation, including all four 45 degree wingwalls.
- Provide the location, elevation, slope, ID, OD & material for all outfall pipes emptying into canal.
- Provide Top of Bank and Edge of Water for 150' beyond bridge(east & west of bridge), or to typical top of bank section, whichever is greater. I will use this data to set the new bridge length to match the top of bank.
- Canal cross sections for permit drawings.
- Get one cross section at each bridge fascia and at the centerline bridge. All canal cross sections should extend at least 10' beyond top of bank or to level ground, whichever is greater.
- Elevation and offset of overhead electric wires at mid-span of bridge on east side of road. Get good location of first pole on each side of bridge, east and west side of pole. Get all other poles within DTM area.
- Provide DTM of east-west gravel roads and adjacent ditches parallel to PDD Canal #2 for at least 150' on both sides of bridge.
- Provide good canal DTM on West side of Hatton Highway. I will have a retaining wall along east bank of canals, so get a real accurate top of bank and canal slope for east side. Sections should extend to west top of bank and get at least one shot beyond TOB.

3. SUE:

- N/A.

4. RIGHT-OF-WAY:

- Verify existing Right of Way based on the most recent maps for Hatton Highway and other information provided by Palm Beach County and Florida Department of Transportation

5. SURVEY FILE STANDARDS AND ELECTRONIC SUBMITTAL:

- Survey Digital Terrain Model, topography and electronic output file will be provided in a Microstation V8 I CADD Format, in accordance with Palm Beach County Standards.

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: 0  
 County: Palm Beach  
 FPN: Hatton Hwy Bridge  
 FAP No.: 1/0/1900

Consultant Name: 0  
 Consultant No.: Greenhome & O'Mara Inc.  
 Date: 6/7/2012  
 Estimator: John Adler

Staff Classification	Total Staff Hours From "SH Summary"	Sr PSM	PSM	Survey Tech	CADD Tech	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$54.78	\$41.33	\$25.86	\$29.58	\$0.00	\$0.00	\$0.00	\$0.00			
27. Survey (Field & Office Support)	75	6.00	26.00	9.00	34.00	0	0	0	0	75	\$2,641.72	\$35.22
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	\$0	\$0
29. Mapping	0	0	0	0	0	0	0	0	0	0	\$0	\$0
<b>Total Staff Hours</b>	75	6	26	9	34	0	0	0	0	75	\$2,641.72	\$35.22
<b>Total Staff Cost</b>		\$328.68	\$1,074.68	\$232.74	\$1,006.72	\$0.00	\$0.00	\$0.00	\$0.00		\$2,641.72	\$35.22

Check = \$2,641.72

Form Revised 3/28/05

SALARY RELATED COSTS:		\$2,641.72
OVERHEAD:	172.45%	\$4,555.65
<b>SUBTOTAL ESTIMATED FEE:</b>		<b>\$7,197.37</b>
OPERATING MARGIN:	10%	\$719.74
FCGM (Facilities Capital Cost Money):	0.00%	\$0.00
EXPENSES:	0.00%	\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>		<b>\$7,917.11</b>
Survey	15 2-man crew days @	\$ 912.66 / day
SUE		\$ 1,196.98 / day
<b>SUBTOTAL ESTIMATED FEE:</b>		<b>\$13,689.90</b>
<b>GRAND TOTAL ESTIMATED FEE:</b>		<b>\$21,607.01</b>

Exhibit "A" - Page 27 of 28

Project Activity 27: Survey

Task No.	Task	Units	No of Lths	Field Crdy Days/Lth	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.01	Horizontal Project Network Control (HPNC)									
	2-Lane Roadway	Mile	1.96	1.00	1.00	1.00	1.00	5.00	5.00	Set control for design and establish for bridge and canal and topographic. Baseline on canal to be set on North side of canal. Datum for this bridge will be based on control set by GAO on SR 700 AAD 1000 and NAVD 88. Ben 1 Sta will be 1800' 1' south of the bridge and 1800' N north of the bridge.
	Multi-lane Roadway	Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Interstate	Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27.02	Vertical Project Network Control (VPNC)									
	2-Lane Roadway	Mile	1.99	3.00	3.00	0.50	1.50	2.00	6.00	Bring NAVD 88 verticals to project from SR 700. Set two permanent benchmarks on site in accordance to MTS for future transfer of vertical base to the new constructed bridge.
	Multi-lane Roadway	Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Interstate	Mile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27.03	Alignment and Existing R/W Lines									
		Mile	0.75	2.00	1.40	1.05	1.47	8.07	11.30	Provide R/W Lines for road and canal based on Palm Beach County R/W maps and if available Florida Department of Transportation.
27.06	Digital Terrain Model (DTM/3D)									
		Mile	0.75	5.00	3.50	0.50	1.75	5.00	21.21	3800' on Hatten Hwy 5'00' north & 1,500' south of bridge. South of bridge DTM will cover right of way to right of way and west parallel strip to edge-of-ribside (EOR) and from outside EOR to west EOR to 5' beyond top-of-bank for 800' from bridge. The remaining 200' south of the bridge will be right of way to edge of way station line. West of bridge DTM will cover from EOR to east of the east top of bank of farm ditch to EOR. East of bridge DTM will cover from EOR to the 400' immediately north of the bridge the remaining 1700' will be right of way to right of way of Hatten Hwy. At bridge canal 200', 150' west and 100' east of bridge. Coverage of DTM will include farm roads on both sides of the canal down to edge of ribside.
27.07	Topography (2D)									
		Mile	0.75	1.40	0.98	0.50	0.49	3.00	2.94	Locate planimetrics within the survey area. This includes electric lines horizontally and low point vertically at the intersection.
27.10	Underground Utilities									
	Designates	Wht/Size			0.00		0.00		0.00	
	Locates	Point			0.00		0.00		0.00	
	Survey	LS	20%	0.00	0.00		0.00		0.00	
27.13	Bridge Survey									
	Mark / Measure	EA	1.00	1.00	1.00	0.50	0.50	3.00	3.00	Bridge measurement provided by Phocan
27.14	Channel Survey									
		EA	0.86	3.28	2.62	0.50	1.31	2.12	5.58	Take 20' cross section @ 100' intervals. 8 sections north, 4 in the west canal and 4 in the east canal and 8 south of the bridge in the west canal. 8 additional sections in the canal at the bridge plus 2 at 800' intervals on the intersection canal from the south making the total of 24 sections. All canal sections will be added to the DTM as spot elevations.
27.27	Work Zone Safety									
		LS	12	0.125	1.50					
27.28	Miscellaneous Surveys									
		LA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>Survey Subtotal</b>										
				Crew Days	18	Field Support Hours	8	Office Support Hours	96	
27.29	Supplemental Surveys									
		LA	0.00	18	0	0.00	0	0.00	0	THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR
27.30	Document Research									
		LA	4.00						4	
27.31	Field Reviews									
		LS	0.00						0	
27.32	Technical Meetings									
		LS	0.00						0	
27.33	Quality Assurance / Quality Control									
		LS						5%	3	
27.34	Supervision									
		LS						5%	3	
27.35	Coordination									
		LS						3%	2	
<b>27. Survey Total</b>										
				Crew Days	18	Field Support Hours	8	Office Support Hours	97	

Exhibit "A" - Page 28 of 28

**EXHIBIT "B"**

**CERTIFICATION STATEMENTS**

Exhibit "B" - Page 1 of 4

**Project:** Hatton Highway Bridge over PDD Main Canal 2  
Bridge Rehabilitation / Replacement  
**Project No.:** 2012515  
**CONSULTANT:** R. J. Behar & Company, Inc.

**TRUTH-IN-NEGOTIATION STATEMENT**

By entering into this Agreement, the **CONSULTANT/ANNUAL CONSULTANT** certifies that the wage rates and costs used to determine the lump sum fees contained in herein are accurate, complete and current as of the date of this Agreement.

The said lump sum fees shall be adjusted to exclude any significant sums should the **COUNTY** determine that the lump sum fees were increased due to inaccurate, incomplete or non-current wage rates or due to inaccurate representations of fees paid to outside consultants.

The **COUNTY** shall exercise its right under this "Certificate" within one year following final payment.

**PROHIBITION AGAINST CONTINGENT FEES STATEMENT**

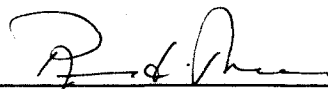
By entering into this Agreement the **CONSULTANT/ANNUAL CONSULTANT** warrants that they have not employed or retained any company or person other than a bonafide employee working solely for the **CONSULTANT/ANNUAL CONSULTANT** to solicit or secure this Agreement and that they have not paid or agreed to pay any person, company, corporation, individual or firm other than a bonafide employee working solely for the **CONSULTANT/ANNUAL CONSULTANT**, any fee, commission, percentage, gift or other consideration contingent upon or resulting from the award of making of this agreement.

**PUBLIC ENTITY CRIMES STATEMENT**

As provided in F.S. 287.132-133, by entering this Agreement or performing any work in furtherance hereof, the **CONSULTANT/ANNUAL CONSULTANT** certifies that it, its affiliates, suppliers, sub-contractors and consultants who will perform hereunder, have not been placed on the convicted vendor list maintained by the State of Florida Department of Management Services within the 36 months immediately preceding the date hereof. This notice is required by F.S. 287.133 (3) (a).

**NON-DISCRIMINATION STATEMENT**

The **CONSULTANT/ANNUAL CONSULTANT** warrants and represents that all of its employees are treated equally during employment without regard to race, color, religion, disability, sex, age, national origin, ancestry, marital status, familial status sexual orientation, gender identity and expression.



Robert J. Behar, P.E., President

**CONFLICT OF INTEREST DISCLOSURE FORM**

Exhibit "B" - Page 2 of 4

**Project:** Hatton Highway Bridge over PDD Main Canal 2  
Bridge Rehabilitation / Replacement

**Project No.:** 2012515

CONSULTANT/ANNUAL CONSULTANT represents that it presently has no interest, either direct or indirect, which would or could conflict in any manner with the performance of services for the County, except as follows:

\_\_\_\_\_

(Attach additional sheets as needed.)

CONSULTANT/ANNUAL CONSULTANT further represents that no person having any interest shall be employed for said performance. By signing below, CONSULTANT/ANNUAL CONSULTANT certifies that the information contained herein is true and correct and constitutes all current potential conflicts of interest which may influence or appear to influence CONSULTANT'S/ANNUAL CONSULTANT'S judgment or quality of services being provided to the County.

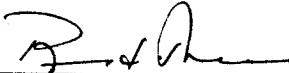
CONSULTANT/ANNUAL CONSULTANT shall promptly notify the COUNTY in writing by certified mail of all potential conflicts of interest that may arise in the future through any prospective business association, interest or other circumstance which may influence or appear to influence CONSULTANT'S/ANNUAL CONSULTANT'S judgment or quality of services being provided to the County. Such written notification shall identify the prospective business association, interest or circumstance, the nature of work that CONSULTANT/ANNUAL CONSULTANT may undertake and request an opinion of the COUNTY as to whether the association, interest or circumstance would, in the opinion of the COUNTY, constitute an unacceptable conflict of interest if entered into by the CONSULTANT/ANNUAL CONSULTANT.

If, in the sole opinion of the COUNTY, the prospective business association, interest or circumstance of CONSULTANT/ANNUAL CONSULTANT would constitute an unacceptable conflict of interest to the COUNTY, the COUNTY shall so state in the notification and the CONSULTANT/ANNUAL CONSULTANT shall not enter into said association, interest or circumstance.

**THIS DISCLOSURE** is submitted by Robert J. Behar, P.E., as  
(Name of Individual)

President, of R. J. Behar & Company, Inc.  
(Title/Position) (Firm Name of CONSULTANT/ANNUAL CONSULTANT)

who hereby certifies that the information stated above is true and correct. Further, it is hereby acknowledged that any misrepresentation by the CONSULTANT/ANNUAL CONSULTANT on this Disclosure is considered an unethical business practice and is grounds for sanctions against future County business with the CONSULTANT/ANNUAL CONSULTANT.

  
(Signature)

6-8-12  
(Date)

DISCLOSURE OF OWNERSHIP INTERESTS

TO: PALM BEACH COUNTY CHIEF OFFICER,  
OR HIS OR HER OFFICIALLY DESIGNATED REPRESENTATIVE

STATE OF FLORIDA  
COUNTY OF PALM BEACH

BEFORE ME, the undersigned authority, this day personally appeared Robert J. Behar, PE, hereinafter referred to as "Affiant," who being by me first duly sworn, under oath, deposes and states as follows:

1. Affiant appears herein as:

[ ] an individual or

[ X ] the President/CEO of R.J. Behar & Company, Inc. - Corporation

[position—e.g., sole proprietor, president, partner, etc.] [name & type of entity—e.g., ABC Corp., XYZ Ltd. Partnership, etc.].

The Affiant or the entity the Affiant represents herein seeks to do business with Palm Beach County through its Board of County Commissioners.

2. Affiant's address is: 6861 SW 196 Avenue, Suite 302

Pembroke Pines, Florida 33332

3. Attached hereto as Exhibit "A" is a complete listing of the names and addresses of every person or entity having a five percent (5%) or greater interest in the Affiant's corporation, partnership, or other principal. Disclosure does not apply to nonprofit corporations, government agencies, or to an individual's or entity's interest in any entity registered with the Federal Securities Exchange Commission or registered pursuant to Chapter 517, Florida Statutes, whose interest is for sale to the general public.

4. Affiant acknowledges that this Affidavit is given to comply with Palm Beach County policy, and will be relied upon by Palm Beach County and the Board of County Commissioners. Affiant further acknowledges that he or she is authorized to execute this document on behalf of the entity identified in paragraph one, if any.

5. Affiant further states that Affiant is familiar with the nature of an oath and with the penalties provided by the laws of the State of Florida for falsely swearing to statements under oath.

6. Under penalty of perjury, Affiant declares that Affiant has examined this Affidavit and to the best of Affiant's knowledge and belief it is true, correct and complete.

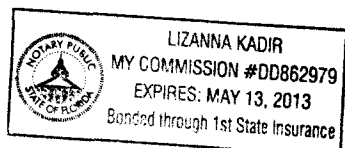
FURTHER AFFIANT SAYETH NAUGHT.

Robert J. Behar, PE, Affiant  
(Print Affiant Name)

The foregoing instrument was acknowledged before me this 12<sup>th</sup> day of June, 2012, by Robert J. Behar, [M] who is personally known to me or [ ] who has produced \_\_\_\_\_ as identification and who did take an oath.

Lizanna Kadir  
(Print Notary Name)

State of Florida at Large  
My Commission Expires: 05/13/2013







**EXHIBIT "C"**

Palm Beach County  
Engineering & Public Works Roadway Production

Exhibit "C" - Page 1 of 2

**PARTICIPATION FOR MWBE/SBE CONSULTANTS**  
Contract

**Project Name:** Hatton Highway Bridge over PDD Main Canal 2 - Bridge Rehabilitat      **Project Number:** 2012515  
**Prime Vendor:** R.J. Behar & Company, Inc.      **Resolution Number:**  
**Telephone:** (561) 333-7000      **Resolution Date:** 5/31/2012  
**Contact:** Juan H. Vazquez, P.E.      **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
R.J. Behar & Company, Inc. 12788 FOREST HILL BLVD STE 2003 WELLINGTON, FL 33414 (561) 333-7000	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	168,348.97	0.00	0.00	0.00
Tierra South Florida, Inc. 2765 VISTA PKY STE 10 WEST PALM BEACH, FL 33411 (561) 687-8536	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	0.00	0.00	28,005.00	0.00
R.J. Behar & Company, Inc. 12788 FOREST HILL BLVD STE 2003 WELLINGTON, FL 33414 (561) 333-7000	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	7,242.49	0.00	0.00	0.00
R.J. Behar & Company, Inc. 12788 FOREST HILL BLVD STE 2003 WELLINGTON, FL 33414 (561) 333-7000	MWBE	0.00	0.00	0.00	0.00	
	SBE	0.00	16,190.33	0.00	0.00	0.00
<b>Total Contract Authorizaton</b> \$241,393.80	<b>Total MWBE</b>	0.00	0.00	0.00	0.00	
	<b>Percentage</b>	0.00%	0.00%	0.00%	0.00%	
	<b>Total SBE</b>	0.00	191,781.79	0.00	28,005.00	0.00
	<b>Percentage</b>	0.00%	79.45%	0.00%	11.60%	0.00%

**SCHEDULE 1**

**LIST OF PROPOSED SBE-M/WBE PRIME AND/OR SUBCONTRACTOR PARTICIPATION**

PROJECT NAME OR BID NAME: Hatton Highway Bridge over PDD Main Canal 2 Bridge Rehabilitation/Replacement PROJECT NO. OR BID NO.: 2012515  
 NAME OF PRIME BIDDER: R. J. Behar & Company, Inc. ADDRESS: 6861 SW 196 Avenue, Suite 302, Pembroke Pines, FL 33332  
 CONTACT PERSON: Sean O'keefe, PE PHONE NO.: 954-680-7771 FAX NO.: 954-680-7781  
 BID OPENING DATE: Tierra South Florida, Inc. USER DEPARTMENT: Engineering & Public Works

THIS DOCUMENT IS TO BE COMPLETED BY THE PRIME CONTRACTOR AND SUBMITTED WITH BID PACKET. PLEASE LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE -M/WBE SUBCONTRACTORS ON THIS PROJECT. IF THE PRIME IS AN SBE-M/WBE, PLEASE ALSO LIST THE NAME, CONTACT INFORMATION AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT.

Name, Address and Phone Number	(Check one or both Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK				
	M/WBE Minority Business	SBE Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. R.J. Behar & Company, Inc. 12788 Forest Hill Blvd., Suite 2003B Wellington, FL 33414 Ph: 561-333-7000; Fax: 561-333-7001	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		79.45%			
2. Tierra South Florida, Inc. 2765 Vista Parkway Suite 10 West Palm Beach, Florida 33411 Ph: 561-687-8539; Fax: 561-687-8570	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					11.60%
3.	<input type="checkbox"/>	<input type="checkbox"/>					
4.	<input type="checkbox"/>	<input type="checkbox"/>					
5.	<input type="checkbox"/>	<input type="checkbox"/>					
(Please use additional sheets if necessary)							
	<b>Total</b>			79.45%			11.60%
<b>Total Bid Price</b> <u>\$241,393.80</u>			<b>Total SBE-M/WBE Participation Dollar Amount or Percentage of Work</b> <u>91.05%</u>				

Exhibit "C" - Page 2 of 2

**Note:**

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

Revised

# EXHIBIT "D"

**OSBA SCHEDULE 2  
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE SUBCONTRACTOR**

This document must be completed by the SBE-M/WBE Subcontractor and submitted with bid packet. Specify in detail, the particular work items to be performed and the dollar amount and/or percentage for each work item. SBE credit will only be given for items which the SBE-M/WBE Subcontractor is SBE certified to perform. Failure to properly complete Schedule 2 may result in your SBE participation not being counted.

PROJECT NUMBER: 2012515 PROJECT NAME: Hatton Highway Bridge over PDD Main Canal 2 Bridge Rehabilitation/Replacement

TO: R.J. Behar & Company, Inc.  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise  Minority Business Enterprise   
Black  Hispanic  Women  Caucasian  Other (Please Specify)

Date of Palm Beach County Certification: 2/15/2015

The undersigned is prepared to perform the following described work in connection with the above project. Additional Sheets May Be Used As Necessary

Line Item/ Lot No. Item Description	Qty/Units	Unit Price	Total Price/ Percentage
Roadway/Structures			
Field Investigation			\$11,830.00
Laboratory Testing			\$3,725.00
Field Engineering & Technical Services			\$1,560.00
Engineering & Technical Services			\$10,890.00

at the following price or percentage 11.60% \$28,005.00  
(Subcontractor's quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to subcontract any portion of this job to a certified SBE or a non-SBE subcontractor, please list the name of the subcontractor and the amount below.

Price and/or Percentage \_\_\_\_\_ / \_\_\_\_\_  
(Name of Subcontractor)

The Prime affirms that it will monitor the SBE's listed to ensure the SBE's perform the work with its own forces. The undersigned subcontractor affirms that it has the resources necessary to perform the work listed without subcontracting to non-certified SBE or any other certified SBE subcontractors except as noted above.

The undersigned subcontractor understands that the provision of this form to Prime Bidder does not prevent Subcontractor from providing quotations to other bidders.

R.J. Behar & Company, Inc.  
Print name of Prime Contractor  
By: [Signature]  
Signature

Robert J. Behar, PE, President  
Print name/title of person executing on behalf  
Prime Contractor

Tierra South Florida, Inc.  
Print name of SBE-M/WBE Subcontractor  
By: [Signature]  
Signature

Raj Krishnasamy, P.E. / President  
Print name/title of person executing on behalf  
of SBE/M/WBE Subcontractor

Revised 10/11/2011

Date: 6/8/2012



**Hatton Highway Bridge Replacement  
Project No. 2012-515**

ID	Task Name	Duration	Start	Finish	2013																	
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	Notice to Proceed	1 day	Fri 7/20/12	Fri 7/20/12																		
2	Topographic Survey	30 days	Mon 7/23/12	Fri 8/31/12																		
3	Geotechnical Exploration	45 days	Mon 7/30/12	Fri 9/28/12																		
4	Pre-Design Meeting	1 day	Wed 8/1/12	Wed 8/1/12																		
5	Typical Section Submittal	14 days	Thu 8/2/12	Tue 8/21/12																		
6	Meeting with Stakeholders	0 days	Tue 8/21/12	Tue 8/21/12																		
7	35% Design	30 days	Fri 9/7/12	Thu 10/18/12																		
8	County Review	21 days	Fri 10/19/12	Fri 11/16/12																		
9	Initial Utility Contact	7 days	Mon 9/3/12	Tue 9/11/12																		
10	Geotechnical Report	7 days	Mon 10/1/12	Tue 10/9/12																		
11	Permit Preapplication Meeti	1 day	Mon 11/19/12	Mon 11/19/12																		
12	65% Design	74 days	Mon 11/19/12	Thu 2/28/13																		
13	County Review	21 days	Fri 3/1/13	Fri 3/29/13																		
14	First Utility Coordination Me	1 day	Wed 4/3/13	Wed 4/3/13																		
15	Utility Conflict Resolution PI	15 days	Thu 4/4/13	Wed 4/24/13																		
16	Permitting	180 days	Tue 11/20/12	Mon 7/29/13																		
17	96% Design	74 days	Mon 4/1/13	Thu 7/11/13																		
18	County Review	21 days	Fri 7/12/13	Fri 8/9/13																		
19	Design Consultant Utility M	1 day	Mon 8/12/13	Mon 8/12/13																		
20	100% Design	30 days	Mon 8/12/13	Fri 9/20/13																		
21	County Review	21 days	Mon 9/23/13	Mon 10/21/13																		
22	Utility Pre advertising Meeti	1 day	Tue 10/22/13	Tue 10/22/13																		
23	USACOE Permit Approval	15 days	Tue 7/30/13	Mon 8/19/13																		
24	Final Submission	14 days	Tue 10/22/13	Fri 11/8/13																		

Project Hatton Highway Date: Mon 4/16/12	Task		Milestone		External Tasks	
	Split		Summary		External Milestone	
	Progress		Project Summary		Deadline	

Attachment 3