

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: July 7, 2015

Consent Regular
 Workshop Public Hearing

Department:

Submitted By: Engineering & Public Works

Submitted For: Roadway Production Division

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve the first amendment to the construction materials testing, geotechnical engineering & inspection annual contracts with:

- A) GFA International, Inc. (GFA), R2014-1127, whose original contract was dated August 19, 2014;
- B) Nutting Engineers of Florida, Inc. (Nutting), R2014-1128, whose original contract was dated August 19, 2014; and
- C) Tierra South Florida, Inc. (TSF), R2014-1126, whose original contract was dated August 19, 2014.

SUMMARY: Approval of these first amendments to the construction materials testing, geotechnical engineering & inspection annual contracts will extend the required professional services for one year, on a task order basis, from August 18, 2015 to August 18, 2016. The amendments with GFA, Nutting and TSF will also adjust the fee schedule as allowed in the original contract. These amendments are the first renewals of two possible one year renewals contemplated in the original contracts. To date, tasks in the
(continued on Page 3)

Countywide (MRE)

Background and Justification: In accordance with Board of County Commissioners adopted procedures pursuant to Florida Statutes 287.055 Consultants Competitive Negotiations Act, these consultants were selected to perform professional services relative to Palm Beach County (County) needs, and are presently under contract with the County, on an annual contractual basis. It is the consensus of the user departments that these consultants have, within the provisions of their contracts, provided the professional
(continued on Page 3)

Attachments:

- 1. First Amendment Contract with GFA with Exhibit A
- 2. First Amendment Contract with Nutting with Exhibit A
- 3. First Amendment Contract with TSF with Exhibit A

Recommended By: *Ornelis A. Fernandez* 5/28/15 *[Signature]*
Division Director Date

Approved By: *Sy J. Webb* 6/3/15
County Engineer Date

Summary (continued from Page 1)

amount of \$3,085 have been authorized for GFA with 0% Small Business Enterprise (SBE) participation which is currently less than their commitment of 20%. To date, tasks in the amount of \$11,400 have been authorized for Nutting with 100% SBE participation which equals their commitment of 100%. To date, tasks in the amount of \$36,840 have been authorized for TSF with 100% SBE participation which equals their commitment of 100%. The consultants are all Palm Beach County companies. Both Nutting and TSF are certified SBE firms.

Background and Justification (continued from Page 1)

services requested by the County. Since the consultants remain in good standing and wish to continue to provide the professional services as indicated in their contracts, the County agrees to renew their contracts for one year.

These first amendments to the contracts have been reviewed with GFA, Nutting and TSF, and staff recommends the first renewal of the attached consultant annual contracts. This transaction will maintain the continuous process of professional services required by the County.

**FIRST AMENDMENT TO THE ANNUAL CONSTRUCTION MATERIALS TESTING,
GEOTECHNICAL ENGINEERING & INSPECTION
CONTRACT NO. R2014-1127
DATED AUGUST 19, 2014, BY AND BETWEEN
GFA INTERNATIONAL, INC., AND PALM BEACH COUNTY**

THIS FIRST AMENDMENT to the Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract dated August 19, 2014, (R2014-1127), hereinafter "CONTRACT" by and between GFA International, Inc., hereinafter "CONSULTANT" and the Board of County Commissioners of Palm Beach County, a political subdivision of the state of Florida, hereinafter, "COUNTY".

WITNESSETH

WHEREAS, on August 19, 2014, the CONSULTANT and COUNTY entered into a twelve month Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract for engineering services and other related tasks throughout Palm Beach County; and

WHEREAS, the CONTRACT provides that the contract may be extended, at the COUNTY's option for a defined period of time, not to exceed thirty-six months total contract time, upon approval of the Board of County Commissioners; and

WHEREAS, this is the first of the two allowable one (1) year term CONTRACT extensions per section 4.1; and

WHEREAS, by this amendment, the CONSULTANT and the COUNTY mutually agree to amend the CONTRACT terms to extend the expiration date of the CONTRACT from August 18, 2015 to August 18, 2016, with all original terms, conditions and unit prices adhered to.

WHEREAS, the original CONTRACT provides in section 5.3.2 that the rates may be adjusted by negotiation; and

WHEREAS, by this amendment, the CONSULTANT and the COUNTY mutually agree to amend the CONTRACT terms to modify the Fee Schedule of the CONTRACT from Exhibit B in the Original Contract to the revised Fee Schedule provided by GFA International, Inc. dated April 29, 2015, and attached hereto as Exhibit A.

NOW, THEREFORE, in consideration of the mutual covenants, promises, and agreements herein contained, the parties agree as follows:

1. The above recitations are true and correct and incorporated herein.
2. The CONTRACT, dated August 19, 2014, between the CONSULTANT and the COUNTY is hereby amended to extend the expiration date of the CONTRACT from August 18, 2015 to August 18, 2016.

3. The Fee Schedule shown as Exhibit B in the Original Contract is hereby modified as shown in the revised Fee Schedule provided by GFA International, Inc. dated April 29, 2015, and attached hereto as Exhibit A.
4. It is the intent of the parties hereto that this Amendment shall not become binding until the date executed by the COUNTY.
5. Except as provided herein, all other provisions of the Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract dated August 19, 2014, hereby confirmed shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed and sealed this _____ day of _____, 2015.

ATTEST:
 SHARON R. BOCK
 Clerk and Comptroller

PALM BEACH COUNTY, a Political
 Subdivision of the State of Florida
 Board of County Commissioners

By: _____
 Deputy Clerk

By: _____
 Shelley Vana, Mayor

APPROVED AS TO FORM
 AND LEGAL SUFFICIENCY

APPROVED AS TO TERMS
 AND CONDITIONS

By: _____
 County Attorney

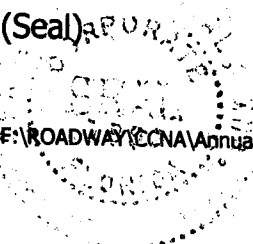
By: *[Signature]*
 Engineering

ATTEST:

 GFA International, Inc.
 Consultant

By: *[Signature]*
 Secretary or Asst. Secretary

By: *[Signature]*
 (Signature)



Thomas Ortner, Executive Vice President
 (Print Name and Title)



Since 1988

Exhibit A

Florida's Leading Engineering Source

Environmental • Geotechnical • Construction Materials Testing • Threshold and Special Inspections • Plan Review & Code Compliance

SCOPE OF WORK April 29, 2015

Rates OK
JK

The general scope of work consists of geotechnical engineering, geotechnical drilling, construction materials testing and inspection, threshold inspection services, and any other related services. The Schedule of Fees and Services shown below provides the standard services that may be requested.

Effective August 19, 2015 through August 18, 2016

SCHEDULE OF FEES AND SERVICES

I. SOIL TESTING

1. Field Density Test (five [5] minimum)	\$20/test
2. Proctors	\$80/test
3. Florida Bearing Value Test	\$75/test
4. Limerock Bearing Ratio Test	\$250/test
5. Atterberg Limit	\$70/test
6. Carbonate Content Test	\$75/test
7. Organic Content Test	\$45/test
8. D.O.T. Corrosivity	\$150/test
9. Soil Observation (On Site)	\$55/hr
10. Natural Sample Moisture Content	\$15/test
11. Unit Weight and Moisture Content (Undisturbed Sample)	\$30/test

II. CONCRETE & MASONRY MATERIALS

1. Concrete Compression test (Min four [4] cylinders per trip) Prepare cylinders & slump test on site, and deliver to lab	\$75/set
2. Additional Concrete cylinders	\$15/cyl.
3. Concrete Compression test only [delivered to lab]	\$12/cyl.
4. Slump test	\$10/test
5. Air Content Test	\$15/test
6. Stand-by	\$41/hr.
7. Grout Prism (Six [6] per set) Includes preparation of Prism on site	\$75/set
8. 2" x 2" Mortar Cubes (Six [6] per set) Includes preparation of Cubes on site	\$95/set
9. Additional Mortar cubes	\$10/ea.
10. Masonry Units	
a. Compressive Strength	\$50/unit
b. Absorption	\$25/unit
11. Concrete Cores (Min. 3) Secure, trim & test	\$80/core
Testing of core [delivered to lab (Incl. Trim)]	\$35/core
12. Swiss Hammer Testing	\$45/hour
13. Windsor Probe Test (Min. 3 shots)	\$150/test
14. Additional Windsor Probe Tests	\$100/test

III. AGGREGATE TESTING

- | | |
|--|-----------|
| 1. Grain size determination: | |
| a. Full grain size (8 sieves) | \$60/test |
| b. Wash through (#200) | \$35/test |
| 2. Sieve Analysis – Coarse Aggregate | \$85/test |
| 3. Specific Gravity & Absorption of Fine or Coarse Aggregate | \$50/test |

IV. ASPHALT TESTING

- | | |
|--|---------------|
| 1. Asphalt Cores (obtaining core samples) | \$75/each |
| 2. Asphalt Extraction & Gradation | \$195/test |
| 3. Asphalt Density and Thickness | \$20/test |
| 4. Marshall Stability
(Incl. density, flow and stability of 3 specimens) (50 blows) | \$100/test |
| 5. Coring Machine plus Generator Rental | \$100.00/trip |
| 6. Superpave Resolution Testing | N/A |

V. INSPECTION SERVICES

- | | |
|---|-----------|
| 1. Concrete Inspection (on job-site or plant) | \$65/hour |
| 2. Pile Driving Inspection | \$65/hour |
| 3. Pre-Stress Yard Inspection | \$65/hour |
| 4. Steel Inspection | \$65/hour |
| 5. Threshold Inspection | \$65/hour |
| 6. Asphalt Inspection (Plant or Roadway) | \$65/hour |

VI. FIELD EXPLORATIONS

- | | | |
|---|--------------|-----------|
| 1. Auger Borings | \$9/LF | |
| 2. Hand Augers | \$10.50/LF | |
| 3. Standard Penetration Tests – Truck Rig (0' – 50') | \$12/LF | |
| | (51' – 100') | \$13/LF |
| 4. Grout bore holes | 0' – 50' | \$3.50/LF |
| | 51' – 100' | \$4.50/LF |
| 5. Casing | 0' – 50' | \$3.00/LF |
| | 51' – 100' | \$5.00/LF |
| 6. Static Cone Penetration Test (0' -100') | \$10/LF | |
| 7. Muck Probing (4 hr min.) | \$85/hour | |
| 8. Mobilization of drilling equipment to project (Min. Charge): | | |
| a. 50 mile travel | \$250/trip | |
| b. 100 mile travel | \$350/trip | |

VII. MISCELLANEOUS SERVICES

- | | |
|---|---------------|
| 1. Foundation Analysis and Recommendation | staff hours |
| 2. Percolation test | \$250/test |
| 3. Install Groundwater Monitoring Well, 25' Depth
(per PBCWUD Standards & Details) | \$40.00/LF |
| 4. Plug & Abandon Monitoring Well, 25' Depth | \$150.00/hour |

Effective August 19, 2015 through August 18, 2016



ENGINEERING AND PROFESSIONAL SERVICES

<u>Principal Engineer (If Needed / At Option of PBC)</u>	<u>\$110/hour</u>
<u>Senior Geotechnical Engineer</u>	<u>\$100/hour</u>
<u>Engineer, P.E.</u>	<u>\$90/hour</u>
<u>Staff Engineer</u>	<u>\$75/hour</u>
<u>Senior Engineering Technician</u>	<u>\$65/hour</u>
<u>Engineering Technician</u>	<u>\$55/hour</u>
<u>Drafter / CADD</u>	<u>\$45/hour</u>

Effective August 19, 2015 through August 18, 2016



**FIRST AMENDMENT TO THE ANNUAL CONSTRUCTION MATERIALS TESTING,
GEOTECHNICAL ENGINEERING & INSPECTION
CONTRACT NO. R2014-1128
DATED AUGUST 19, 2014, BY AND BETWEEN
NUTTING ENGINEERS OF FLORIDA, INC., AND PALM BEACH COUNTY**

THIS FIRST AMENDMENT to the Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract dated August 19, 2014, (R2014-1128), hereinafter "CONTRACT" by and between Nutting Engineers of Florida, Inc., hereinafter "CONSULTANT" and the Board of County Commissioners of Palm Beach County, a political subdivision of the state of Florida, hereinafter, "COUNTY".

W I T N E S S E T H

WHEREAS, on August 19, 2014, the CONSULTANT and COUNTY entered into a twelve month Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract for engineering services and other related tasks throughout Palm Beach County; and

WHEREAS, the CONTRACT provides that the contract may be extended, at the COUNTY's option for a defined period of time, not to exceed thirty-six months total contract time, upon approval of the Board of County Commissioners; and

WHEREAS, this is the first of the two allowable one (1) year term CONTRACT extensions per section 4.1; and

WHEREAS, by this amendment, the CONSULTANT and the COUNTY mutually agree to amend the CONTRACT terms to extend the expiration date of the CONTRACT from August 18, 2015 to August 18, 2016, with all original terms, conditions and unit prices adhered to.

WHEREAS, the original CONTRACT provides in section 5.3.2 that the rates may be adjusted by negotiation; and

WHEREAS, by this amendment, the CONSULTANT and the COUNTY mutually agree to amend the CONTRACT terms to modify the Fee Schedule of the CONTRACT from Exhibit B in the Original Contract to the revised Fee Schedule provided by Nutting Engineers of Florida, Inc. dated May 1, 2015, and attached hereto as Exhibit A.

NOW, THEREFORE, in consideration of the mutual covenants, promises, and agreements herein contained, the parties agree as follows:

1. The above recitations are true and correct and incorporated herein.
2. The CONTRACT, dated August 19, 2014, between the CONSULTANT and the COUNTY is hereby amended to extend the expiration date of the CONTRACT from August 18, 2015 to August 18, 2016.

3. The Fee Schedule shown as Exhibit B in the Original Contract is hereby modified as shown in the revised Fee Schedule provided by Nutting Engineers of Florida, Inc. dated May 1, 2015, and attached hereto as Exhibit A.
4. It is the intent of the parties hereto that this Amendment shall not become binding until the date executed by the COUNTY.
5. Except as provided herein, all other provisions of the Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract dated August 19, 2014, hereby confirmed shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed and sealed this _____ day of _____, 2015.

ATTEST:
SHARON R. BOCK
Clerk and Comptroller

PALM BEACH COUNTY, a Political
Subdivision of the State of Florida
Board of County Commissioners

By: _____
Deputy Clerk

By: _____
Shelley Vana, Mayor

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

APPROVED AS TO TERMS
AND CONDITIONS

By: _____
County Attorney

By: *Donald A. Ferment*
Engineering

ATTEST:

Nutting Engineers of Florida, Inc.
Consultant

By: *Christine L. Burt*
Secretary or Asst. Secretary

By: *Richard Wohlfarth*
(Signature)

Richard C. Wohlfarth, P.E., Vice President
(Print Name and Title)

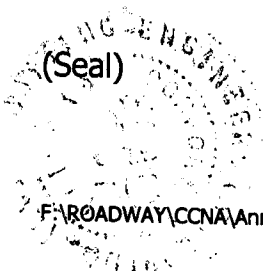


Exhibit A

SCOPE OF WORK

Rates OK

The general scope of work consists of geotechnical engineering, geotechnical drilling, construction materials testing and inspection, threshold inspection services, and any other related services. The Schedule of Fees and Services shown below provides the standard services that may be requested.

SCHEDULE OF FEES AND SERVICES

Effective date from August 19, 2015 through August 18, 2016

I. SOIL TESTING

1.	Field Density Test (five [5] minimum)	\$25/test
2.	Proctors	\$100/test
3.	Florida Bearing Value Test	\$45/test
4.	Limerock Bearing Ratio Test	\$250/test
5.	Atterberg Limit	\$90/test
6.	Carbonate Content Test	\$60/test
7.	Organic Content Test	\$50/test
8.	D.O.T. Corrosivity	\$75/test
9.	Soil Observation (On Site)	\$55/hour
10.	Natural Sample Moisture Content	\$20/test
11.	Unit Weight and Moisture Content (Undisturbed Sample)	\$50/test

II. CONCRETE & MASONRY MATERIALS

12.	Concrete Compression test (Min four [4] cylinders per trip) -Prepare cylinders & slump test on site, and deliver to lab	\$110/set
13.	Additional Concrete cylinders	\$15/cyl.
14.	Concrete Compression test only [delivered to lab]	\$17/cyl.
15.	Slump test	\$10.50/test
16.	Air Content Test.....	\$25/test
17.	Stand-by.....	\$45/hour
18.	Grout Prism (Six [6] per set) - Includes preparation of Prism on site	\$105/set
8.	2" x 2" Mortar Cubes (Six [6] per set) -Includes preparation of Cubes on site	\$105/set
9.	Additional Mortar Cubes	\$15/ea.
10.	Masonry Units A. Compressive Strength	\$80/unit
	B. Absorption	\$40/unit
11.	Concrete Cores (Min. 3); - Secure, trim & test.....	\$80/core
	- Testing of core [delivered to lab (Incl. Trim)]	\$25/core
12.	Swiss Hammer Testing	\$55/hour
13.	Windsor Probe Test (Min. 3 shots)	\$25/test
14.	Additional Windsor Probe Tests	\$25/test

III. AGGREGATE TESTING

1.	Grain size determination: A. Full grain size (8 sieves)	\$85/test
	B. Wash through (#200)	\$45/test
2.	Sieve Analysis - Coarse Aggregate	\$85/test
3.	Specific Gravity & Absorption of Fine or Coarse Aggregate	\$70/test

IV. ASPHALT TESTING

1.	Asphalt Cores (obtaining core samples)	\$60/each
2.	Asphalt Extraction & Gradation	\$150/test
3.	Asphalt Density and Thickness	\$35/test
4.	Marshall Stability (Incl. density, flow and stability of 3 specimens) (50 blows)	\$150/test
5.	Coring Machine plus Generator Rental	\$100/trip
6.	Superpave Resolution Testing	N/A

V. INSPECTION SERVICES

1.	Concrete Inspection (on job-site or plant)	\$75/hour
2.	Pile Driving Inspection	\$75/hour
3.	Pre-Stress Yard Inspection	\$75/hour
4.	Steel Inspection	\$75/hour
5.	Threshold Inspection	\$75/hour
6.	Asphalt Inspection (Plant or Roadway)	\$75/hour

VI. FIELD EXPLORATIONS

1.	Auger Borings	\$10/LF
2.	Hand Augers	\$10/LF
3.	Standard Penetration Tests - Truck Rig (0' - 50')	\$12.50/LF
	(51' - 100')	\$15/LF
4.	Grout bore holes - 0' - 50'	\$5/LF
	51' - 100'	\$5/LF
5.	Casing - 0' - 50'	\$7/LF
	51' - 100'	\$6/LF
6.	Static Cone Penetration Test (0' -100')	\$12/LF
7.	Muck Probing (4 hr min.)	\$100/hour
8.	Mobilization of drilling equipment to project (Min. Charge):	
	1. 50 mile travel	\$150/trip
	2. 100 mile travel	\$200/trip

VII. MISCELLANEOUS SERVICES

1.	Foundation Analysis and Recommendation	≥1Staff Hours
2.	Percolation Test	\$350/test
3.	Install Groundwater Monitoring Well, 25' Depth (per PBCWUD Standards & Details)	\$35/LF
4.	Plug & Abandon Monitoring Well, 25' Depth	\$125/hour

ENGINEERING AND PROFESSIONAL SERVICES:

Principal Engineer (If Needed / At Option of PBC)	\$190.00/hour ⁽¹⁾
Senior Geotechnical Engineer	\$155.00/hour ⁽¹⁾
Engineer, P.E.	\$125.00/hour ⁽¹⁾
Staff Engineer	\$100.00/hour ⁽¹⁾
Senior Engineering Technician	\$72.00/hour ⁽¹⁾
Engineering Technician	\$54.00/hour ⁽¹⁾
Drafter / CADD	\$66.00/hour ⁽¹⁾

⁽¹⁾NOTE: our multiplier is 3.03; it is capped at 3.0 per PBC requirements.

**FIRST AMENDMENT TO THE ANNUAL CONSTRUCTION MATERIALS TESTING,
GEOTECHNICAL ENGINEERING & INSPECTION
CONTRACT NO. R2014-1126
DATED AUGUST 19, 2014, BY AND BETWEEN
TIERRA SOUTH FLORIDA, INC., AND PALM BEACH COUNTY**

THIS FIRST AMENDMENT to the Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract dated August 19, 2014, (R2014-1126), hereinafter "CONTRACT" by and between Tierra South Florida, Inc., hereinafter "CONSULTANT" and the Board of County Commissioners of Palm Beach County, a political subdivision of the state of Florida, hereinafter, "COUNTY".

W I T N E S S E T H

WHEREAS, on August 19, 2014, the CONSULTANT and COUNTY entered into a twelve month Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract for engineering services and other related tasks throughout Palm Beach County; and

WHEREAS, the CONTRACT provides that the contract may be extended, at the COUNTY's option for a defined period of time, not to exceed thirty-six months total contract time, upon approval of the Board of County Commissioners; and

WHEREAS, this is the first of the two allowable one (1) year term CONTRACT extensions per section 4.1; and

WHEREAS, by this amendment, the CONSULTANT and the COUNTY mutually agree to amend the CONTRACT terms to extend the expiration date of the CONTRACT from August 18, 2015 to August 18, 2016, with all original terms, conditions and unit prices adhered to.

WHEREAS, the original CONTRACT provides in section 5.3.2 that the rates may be adjusted by negotiation; and

WHEREAS, by this amendment, the CONSULTANT and the COUNTY mutually agree to amend the CONTRACT terms to modify the Fee Schedule of the CONTRACT from Exhibit B in the Original Contract to the revised Fee Schedule provided by Tierra South Florida, Inc. dated April 22, 2015, and attached hereto as Exhibit A.

NOW, THEREFORE, in consideration of the mutual covenants, promises, and agreements herein contained, the parties agree as follows:

1. The above recitations are true and correct and incorporated herein.
2. The CONTRACT, dated August 19, 2014, between the CONSULTANT and the COUNTY is hereby amended to extend the expiration date of the CONTRACT from August 18, 2015 to August 18, 2016.

3. The Fee Schedule shown as Exhibit B in the Original Contract is hereby modified as shown in the revised Fee Schedule provided by Tierra South Florida, Inc. dated April 22, 2015, and attached hereto as Exhibit A.
4. It is the intent of the parties hereto that this Amendment shall not become binding until the date executed by the COUNTY.
5. Except as provided herein, all other provisions of the Annual Construction Materials Testing, Geotechnical Engineering & Inspection Contract dated August 19, 2014, hereby confirmed shall remain in full force and effect.

IN WITNESS WHEREOF, the parties have caused this Amendment to be executed and sealed this _____ day of _____, 2015.

ATTEST:
 SHARON R. BOCK
 Clerk and Comptroller

PALM BEACH COUNTY, a Political
 Subdivision of the State of Florida
 Board of County Commissioners

By: _____
 Deputy Clerk

By: _____
 Shelley Vana, Mayor

APPROVED AS TO FORM
 AND LEGAL SUFFICIENCY

APPROVED AS TO TERMS
 AND CONDITIONS

By: _____
 County Attorney

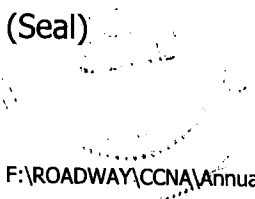
By: *[Signature]*
 Engineering

ATTEST:

 Tierra South Florida, Inc.
 Consultant

By: *[Signature]*
 Secretary or Asst. Secretary

By: *[Signature]*
 (Signature)

(Seal)


 Raj Krishnasamy, P.E., President
 (Print Name and Title)

April 22, 2015



Exhibit A

**TESTING LAB ANNUAL SERVICES
SCHEDULE OF FEES & SERVICES**
August 19, 2015 through August 18, 2016

Rates OK
JK

SCOPE OF WORK

The general scope of work consists of geotechnical engineering, geotechnical drilling, construction materials testing and inspection, threshold inspection services, and any other related services. The Schedule of Fees and Services shown below provides the standard services that may be requested.

I. SOIL TESTING

1. Field Density Test (five [5] minimum).....	\$25/test
2. Proctors (Modified/Standard)	\$85/test
3. Florida Bearing Value Test.....	\$45/test
4. Limerock Bearing Ratio Test.....	\$275/test
5. Atterberg Limit Test.....	\$80/test
6. Carbonate Content Test.....	\$100/test
7. Organic Content Test.....	\$50/test
8. Corrosion Series	\$185/test
9. Soil Observation (On Site).....	\$55/hr
10. Natural Sample Moisture Content.....	\$20/test
11. Unit Weight and Moisture Content (Undisturbed Sample).....	\$50/test

II. CONCRETE & MASONRY MATERIALS

1. Concrete Compression test (Min. four [4] cylinders per trip) - Prepare cylinders & slump test on site, and deliver to lab.....	\$140/set
2. Additional Concrete cylinders.....	\$18/cyl
3. Concrete Compression test only [delivered to lab].....	\$18/cyl
4. Slump test.....	\$10each
5. Air Content Test.....	\$15each
6. Stand-by.....	\$55/hr
7. Grout Prism (Six [6] per set) - Includes preparation of Prism on site.....	\$80/set
8. 2" x 2" Mortar Cubes (Six [6] per set) - Includes preparation of Cubes on site.....	\$80/set
9. Additional Mortar cubes.....	\$18each
10. Masonry Units	
A. Compressive Strength.....	\$80/unit
B. Absorption.....	\$50/unit
11. Concrete Cores (Min. 3); Secure, trim & test	\$80/core
- Testing of core [delivered to lab (Incl. Trim)].....	\$50/core
12. Swiss Hammer Testing.....	\$55/hr
13. Windsor Probe Test (Min. 3 shots).....	\$150/test
14. Additional Windsor Probe Tests.....	\$100/test

April 22, 2015

III.	AGGREGATE TESTING	
	1. Grain size determination:	
	A. Full grain size (8 sieves).....	\$75/test
	B. Wash through (#200).....	\$45/test
	2. Sieve Analysis – Course Aggregate.....	\$45/test
	3. Specific Gravity & Absorption of Fine or Coarse Aggregate.....	\$70/test
IV.	ASPHALT TESTING	
	1. Asphalt Cores (obtaining core samples).....	\$50each
	2. Asphalt Extraction & Gradation.....	\$150each
	3. Asphalt Density and Thickness.....	\$25each
	4. Marshall Stability (Incl. density, flow and stability of 3 specimens) (50 blows).....	\$150each
	5. Coring Machine plus Generator Rental.....	\$400/trip
	6. Superpave Resolution Testing.....	
	6A. Gyrotory Compaction, bulk specific gravity	\$175/each
	6B. Rice Testing	\$120/each
V.	INSPECTION SERVICES	
	1. Concrete Inspection (on job-site or plant).....	\$55/hr
	2. Pile Driving Inspection.....	\$70/hr
	3. Pre-Stress Yard Inspection.....	\$70/hr
	4. Steel Inspection.....	\$70/hr
	5. Threshold Inspection.....	\$70/hr
	6. Asphalt Inspection (Plant or Roadway).....	\$85/hr
VI.	FIELD EXPLORATIONS	
	1. Auger Borings.....	\$9/ft
	2. Hand Augers-2 men crew.....	\$110/hr
	3. Standard Penetration Tests – Truck Rig (0' – 50').....	\$12ft
	(51' – 100').....	\$14/hr
	4. Grout bore holes - 0' – 50'.....	\$5.50/hr
	51' – 100'.....	\$6.50/hr
	5. Casing 0' – 50'.....	\$7/ft
	51' – 100'.....	\$9/ft
	6. Static Cone Penetration Test (0' – 100').....	\$N/A
	7. Muck Probing (4 hr. min.).....	\$100/hr
	8. Mobilization of drilling equipment to project (Min. Charge):	
	A. 50 mile travel.....	\$350/trip
	B. 100 mile travel.....	\$450/trip
VII.	MISCELLANEOUS SERVICE	
	1. Foundation Analysis and Recommendation.....	\$Staff
	2. Percolation test.....	\$275/test
	3. Install Monitoring Well, 25' Depth (per PBCWUD Standards & Details).....	\$50/LF
	4. Plug & Abandon Monitoring Well, 25' depth.....	\$150/hour
X.	ENGINEERING AND PROFESSIONAL SERVICES	
	1. Principal Engineer/PM, P.E.....	\$150/hour
	2. Senior Geotechnical Engineer, P.E.....	\$130/hour
	3. Engineer, P.E.	\$120/hour
	4. Staff Engineer.....	\$90/hour
	5. Senior Engineering Technician	\$70/hour
	6. Engineering Technician.....	\$65/hour
	7. Drafter/CADD	\$65/hour