

*City of Miami Gardens*  
1515 N.W. 167<sup>th</sup> Street: Bldg. 5, Suite 200  
Miami Gardens, Florida 33169

August 17, 2009

(See Distribution List Below)

AWARD NOTIFICATION

RE: BID#08-09-047-Inspection and Testing

Dear Vendor(s):

Congratulations! The above referenced contract has been awarded to your company(s) in accordance with the terms and conditions of the bid specifications.

**Primary Vendors:**

**1. Tally Engineering**

CATEGORIES: (1) Asphalt Concrete, (2) Concrete Testing, (3) Pre-stress/Precast, (6) Soils, (12) Water Testing, (18) Structural Steel, (23) Additional Items Testing, (24) Maintenance of Traffic.

**2. GFA International**

CATEGORIES: (4) Piling, (5) Geotechnical Services, (7) Monitoring Wells, (9) Steel Testing, (10) Roofing, (14) Asbestos Testing (15) Fire Proofing, (16) Strain Measurements, (25) Engineering Services.

**3. Wingerter Laboratories**

CATEGORIES: (8) Turbidity Monitoring, (13) Mechanical

**4. MACTEC**

CATEGORIES: (11) Solids/Soils Testing, (19) Welding

**5. ATC Associates**

CATEGORIES: (17) Ultrasonic Inspections (20) Magnetic Particle Testing, (22) Indoor Air Quality Testing

**6. Universal Engineering**

CATEGORIES: (21) Underground Utility Location & Inspection

**Secondary Vendors:**

**1. MACTEC**

CATEGORIES: (1) Asphalt Concrete, (9) Steel Testing, (17) Ultrasonic Inspections, (20) Magnetic Particle Testing, (21) Underground Utility Location & Inspection, (22) Indoor Air Quality Testing

**2. GFA**

CATEGORIES: (2) Concrete Testing, (3) Pre-stress/Precast Concrete, (12) Water Testing, (24) Maintenance of Traffic.

**3. Universal**

CATEGORIES: (4) Piling, (11) Solids/Soils Testing (15) Fire Proofing, (16) Strain Measurements, (18) Structural Steel,

**4. Wingerter Laboratories**

CATEGORIES: (5) Geotechnical Services, (6) Soils, (10) Roofing, (16) Strain Measurements, (23) Additional Items Testing

**5. Tally Engineering**

CATEGORIES: (7) Monitoring Wells, (8) Turbidity Monitoring, (13) Mechanical, (16) Strain Measurements, (19) Welding, (25) Engineering Services

**6. ATC**

CATEGORIES: (14) Asbestos Testing, (18) Structural Steel

Awarded vendor(s) shall provide the City with Certificate of Liability Insurance listing the City as additional insured. All insurance requirements shall be faxed to the Procurement Department at 305-474-1285 by Friday, August 21, 2009.

If you have any questions please do not hesitate to contact me at (305) 622-8000 #2491.

Sincerely,

*Elena Varona*

Elena Varona  
Buyer

**Distribution List:**

ATC Associates  
GFA International  
MACTEC  
Tally Engineering  
Universal Engineering  
Wingerter Laboratories

1515 N.W. 167<sup>th</sup> STREET, BUILDING 5 • SUITE 200 • MIAMI GARDENS, FL 33169 • PH: 305-622-8000 • FAX: 305



**City of Miami Gardens**  
 1515 N.W. 167<sup>th</sup> Street: Bldg. 5 Suite 200  
 Miami Gardens, Florida 33169

**Procurement Department**

**Tabulation Sheet**  
**ITB #08-09-047 Inspection & Testing Laboratory Services**

This is only a tabulation of prices submitted and is not an indication of award or responsiveness.

			Tally Engineering	Wingter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
<b>1. ASPHALT CONCRETE</b>													
<b>(Includes Travel, Milage, Delivery, Certified Report and Cylinder Pick-Up.)</b>													
1	A	Asphalt Paving Design Mix Marshall Method (Includes Sampling, Standard Design & Applicable Marshall Procedures) per Asphalt Institute per Asphalt Institute Manual Series No. 2	Per Mix	\$500	\$750	\$650	\$800	\$790	\$790	No bid	\$608.65	\$814	\$750
2	B	Analysis of Special Design Mix	Per Mix	\$350	\$600	\$550	\$700	\$550	\$640	No bid	\$497.91	\$660	\$615
3	C	Marshall Properties (FDOT Procedures) (Aviation P-401/P-405)	Per Set	\$125	N/A No bid	\$250	No bid	N/A No bid	No bid	No bid	No bid	No bid	\$115

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
4	1C.1	Stability per ASTM D-1559 or AASHTO D-T 245 (3 Specimen per Set)	Per Set	\$125	\$100	\$75	\$85	\$122	\$122	No bid	\$93.99	\$126	\$130
5	1C.2	Flow per ASTM - 1559 or AASHTO D-T 245 (Set of 3 Specimen)	Per Set	\$50	\$100	\$135	\$75	\$112	\$112	No bid	\$86.29	\$116	\$130
6	1C.3	Density per ASTM D-2726 (Set of 3 Specimen)	Per Set	\$50	\$100	\$135	\$75	\$115	\$115	No bid	\$88.60	\$119	\$98
7	1C.4	Air Voids per ASTM- 3203 (Set of 3 Specimen)	Per Set	\$75	\$100	\$135	\$75	\$112	\$112	No bid	\$86.29	\$116	\$230
8	1C.5	Maximum Density per ASTM D-2041	Per Set	\$50	\$75	\$150	\$45	\$74	\$74	No bid	\$63.41	\$77	\$115
9	1C.6	Particle Coating per ASTM D-2489	Per Sample	\$125	\$100	\$150	\$85	\$126	\$126	No bid	\$99.99	\$130	\$117
10	1C.7	Sampling/Prep. Per ASTM D-1559 / D-2726	Per Sample	\$150	\$70	\$35	No bid	\$77	\$77	No bid	\$62.71	\$80	\$98
11	1C.8	Bulk Specific Gravity of Drilled Core per ASTM D-2726	Per Core	\$35	\$50	\$45	\$25	\$54	\$54	No bid	\$47.86	\$56	\$35
12	1C.9	Moisture Content - Drying per ASTM C-566	Per Sample	\$25	\$50	\$35	\$25	\$50	\$55	No bid	\$49.51	\$57	\$75
13	1C.10	Moisture Content - Distillation per ASTM D-1461	Per Sample	\$25	\$120	No bid	\$125	\$115	\$130	No bid	\$117.71	\$134	\$125

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
14	1C.11	Asphaltic Specific Gravity / Absorption of Aggregate Blends	Per Aggr. Smpl.	\$75	\$90	\$45	\$100	\$85	\$100	No bid	\$84.86	\$104	\$95
15	1C.12	Sampling Hot Mix at Manufacturer Per ASTM D-979	Per Hour	\$80	\$55	\$55	\$55	\$60	\$60	No bid	\$46.24	\$62	\$62
16	1C.13	Effect of Water on Hot Mix per ASTM D-1075 (Set of 6 Samples)	Per Set	\$250	\$120	\$350	\$120	\$126	\$126	No bid	\$114.56	\$130	\$120
17	1C.14	Washed Sieve Analysis	Per Sample	\$50	\$55	\$55	\$45	\$60	\$64	No bid	\$52.31	\$66	\$75
18	1C.15	AASHTO T-182	Per Sample	\$750	\$125	\$75	\$140	\$140	\$140	No bid	\$134.68	\$145	\$130
19	1C.16	Flat / Elongated Pieces per ASTM D-4791	Per Sample	\$250	\$125	No bid	\$135	\$135	\$135	No bid	\$109.81	\$140	\$175
20	1C.17	Effect of Moisture On Hot Mix per ASTM D-4867 (Set of 6 Samples)	Per Set	\$250	\$275	No bid	\$300	\$300	\$300	No bid	\$249.97	\$310	\$282
21	1C.18	Sand Equivalent per ASTM D-2419	Per Sample	\$125	\$90	No bid	\$100	\$191	\$100	No bid	\$91.24	\$104	\$90
22	1C.19	Effect of Water on Cohesion per ASTM D-1075 / Modified	Per Sample	\$350	\$150	No bid	\$195	\$145	\$190	No bid	\$163.21	\$197	\$180
23	D.	Extraction/Gradation Analysis per ASTM D-6307	Per Test	\$150	\$125	\$250	\$200	\$145	\$145	No bid	\$124.71	\$130	\$135

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24	E. Asphalt Plant Technician Using FDOT Approved Plant, Laboratory and Procedures for Extraction, Gradations, Marshall Tests and Temperature Checks (ASTM D-290-85) (Per Person, Min. 4 Hrs.)	Per Hour	\$50	\$75	\$65	\$65	\$81	\$80	No bid	\$67.31	\$84	\$80
25	F. Paving Technician for On-Site Paving Operations, Inspections per FDOT Procedures (Temperature, Density Testing and Observation) (4 Hr. Min.)	Per Hour	\$50	\$75	\$55	\$65	\$81	\$80	\$50	\$67.31	\$84	\$80
26	G. Asphalt Densities (Nuclear-Back Scatter Method) (Min. 4 Tests)	Per Test	\$25	\$30	\$28	\$5	\$25	\$30	\$27	\$29.57	\$31	\$25
27	H. Asphalt Core Drilling for Thickness Measurements (Includes Asphalt Patching) (Min. 6 Cores per Call-Out)	Per Core	\$25	\$60	\$55	\$55	\$60	\$60	\$55	\$49.61	\$65	\$175

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28	I. Asphalt Cores Laboratory Tests for Measurements per ASTM D-3549 and Weight per Cubic Foot, per ASTM D-2726.	Per Core	\$15	\$40	\$40	\$35	\$45	\$45	No bid	\$38.19	\$50	\$75
29	J. Gyrotory Compaction (Bulk Specific Gravity)	Per Sample	\$125	\$125	No bid	\$125	\$120	\$120	No bid	\$115.97	\$124	\$105
<b>2. CONCRETE TESTING</b>												
<b>Inclusive of Travel, Mileage, Delivery, Certified Report and Cylinder Pick-Up)</b>												
	<b>A. Cylinders - Cast and Tested by Laboratory.</b>											
30	2A.1 Std. 6"x12" or 4"x 8" Cyl. (Includes Air Test, Concrete Temperature Test, Slump Test) (Per ASTM C-31 "Section 7" Lab Strength Tests per C-39 using C-617 or C-1231) (Min. 5 Cyl. Per Set)	Per Set	\$55	\$75	\$85	\$65	\$75	\$110	\$86	\$77.14	\$120	\$110
	2A.2 Lightweight 3"x 6" Cyl. Incl. Conc. Per ASTM C-495 (Min. 5 Cyl. Per Set)	Per Set	\$60	\$90	\$85	\$55	\$75	\$110	\$86	\$77.14	\$120	\$110
31	2A.3 Air Entrainment per ASTM C31(used Concurrently w/Conc. Set Testing).	Per Set	\$5	\$20	\$20	\$10	\$25	\$35	\$27	\$31.49	\$40	\$35

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
	<b>B.</b>	<b>Securing Structural/Pavement Cores per ASTM C-42 ( 6"Max. Dia.) (3 Cores Min.)</b>											
32	2B.1	8" Deep	Per Core	\$40	\$125	\$95	\$100	\$125	\$125	\$109	\$105.21	\$129	\$125 <sub>(min. 4)</sub>
33	2B.2	14" Deep	Per Core	\$50	\$150	\$125	\$175	\$150	\$150	\$135	\$119.97	\$160	\$150 <sub>(min. 4)</sub>
34	C.	Cores Trim and Compression Test per ASTM C-42	Per Test	\$10	\$35	\$25	\$25	\$40	\$40	\$27	\$39.94	\$42	\$40
	<b>D.</b>	<b>Concrete Masonry Units per ASTM C-140 &amp; C-551- Block/Brick per ASTM-140.</b>											
	<b>2D.1</b>	<b>Concrete Brick per ASTM C-551</b>											
35	A)	Compression	Per Brick	\$25	\$40	\$35	\$55	\$40	\$45	\$40	\$37.86	\$47	\$45
36	B)	Absorption	Per Brick	\$5	\$50	\$35	\$25	\$60	\$65	\$56	\$55.14	\$67	\$65
37	C)	Dimension	Per Brick	\$5	\$40	\$35	\$10	\$40	\$45	\$38	\$37.86	\$47	\$45
38	D)	Appearance	Per Brick	\$5	\$40	\$35	\$10	\$40	\$42	\$37	\$37.86	\$44	\$42
39	2D.2	Block, Manhole	Per Test	\$25	\$50	\$55	\$55	\$55	\$55	\$49	\$46.14	\$57	\$55
40	2D.3	Block, Concrete Compression per ASTM C-140 - Individual Units	Per Test	\$25	\$50	\$55	\$55	\$55	\$55	\$40	\$46.14	\$57	\$55
41	2D.4	Block, Concrete Absorption per ASTM C-140 Individual Units	Per Test	\$5	\$50	\$55	\$25	\$61	\$60	\$58	\$49.91	\$63	\$61
42	2D.5	Moisture Content of Concrete Block per ASTM C-140	Per Block	\$5	\$50	\$35	\$10	\$55	\$55	\$52	\$37.85	\$57	\$55

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
43	2D.6	Block Series, Dimensions, Compression, Absorption, Moisture Content and Unit Weight (Density) per ASTM C-140	Per Block	\$40	\$175	\$150	\$100	\$155	\$170	\$155	\$143.57	\$176	\$170
44	2D.7	Mortar Cubes 2" x 2" x 2" Compression Test per ASTM C-109 (Min. 3 per Test) (Cast by Others)	Per Cube	\$20	\$15	\$13	\$9	\$35	\$35	\$29	\$31.14	\$37	\$35
45	2D.8	Masonry Prisms per ASTM C-1314 (Fabricated by Contractor)	Per Prism	\$55	\$125	\$135	\$75	\$125	\$135	\$120	\$120.97	\$140	\$135
46	2D.9	Sampling and Pick-Up (Casting Not Included)	Per Unit	\$25	\$50	\$65	\$15	\$55	\$63	\$55	\$49.14	\$65	\$63
47	2D.10	Concrete Block Unit Weight per ASTM C-140	Per Block	\$15	\$50	\$45	\$15	\$50	\$60	\$55	\$46.23	\$62	\$60
48	2D.11	Grout Cube Compression Test per ASTM C-1014 (Cast by Others)	Per Cube	\$10	\$15	\$13	\$9	\$21	\$21	\$17	\$17.81	\$22	\$21
49	2D.12	Technician to Cast Mortar or Grout Cubes in Lab. Or On-Site (Incl. Slump & Temp. Tests) per ASTM C-1019	Per Hour	\$40	\$40	\$45	\$35	\$63	\$63	\$50	\$46.24	\$65	\$63

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
50	2D.13	Technician to Cast Mortar or Grout Cubes in Laboratory or On-Site (Includes Slump and Temperature Tests) per ASTM C-1019	Per Hour	\$40	\$40	\$45	\$35	\$81	\$63	\$50	\$62.41	\$84	\$63
	<b>E.</b>	<b>Concrete Beams</b>											
51	2E.1	Tension Test per ASTM C-496 (Splitting Tension Test for Cylindrical Specimen, not Beams)( 3 tests minimum)	Per Test	\$100	\$55	\$75	\$50	\$65	\$65	\$45	\$58.91	\$67	\$65
52	2E.2	Flexural Test per ASTM C-78 (ASTM C-31, C-78) Cast per ASTM C-36, Mold and Pick-Up by Lab. (2 Beams Required per Test)	Per Beam	\$75	\$75	\$75	\$50	\$110	\$120	\$100	\$78.13	\$124	\$120
53	F.	Air Content per ASTM C-173 or ASTM C-231	Per Test	\$5	\$25	\$18	\$10	\$35	\$35	\$29	\$30.51	\$37	\$35

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
54	G.	Concrete Densities (Unit Weight) & Yield Test per ASTM C-138	Per Test	\$20	\$35	\$45	\$10	\$40	\$40	\$26	\$37.61	\$42	\$40
55	H.	Design Mix per ACI-211 Standard Aggregate (Materials Furnished by Supplier) (Laboratory Sampling Included) (1 Trial Batch and 6 Cylinder Tests) (First of Any Series)	Per Mix	\$500	\$500	\$650	\$650	\$520	\$520	No bid	\$467.91	\$536	\$495
		Additional Design Mixes in Series	Per Mix	\$150	\$350	\$250	\$450	\$400	\$400	No bid	\$398.91	\$415	\$375
	<b>2H.1</b>	<b>Design Mix Materials Testing</b>											
56	2H.1A	Gradation	Per Test	\$20	\$60	\$55	\$55	\$73	\$73	\$69	\$67.84	\$76	\$73
57	2H.1B	Fine Aggregate Gravity and Absorption C-127	Per Test	\$35	\$75	\$55	\$50	\$82	\$82	\$78	\$71.49	\$85	\$82
58	2H.1C	Coarse Aggregates Specific Gravity and Absorption C-128	Per Test	\$35	\$75	\$55	\$60	\$91	\$91	\$66	\$83.47	\$94	\$91
59	2H.1D	LA Abrasion C-88	Per Test	\$150	\$200	\$450	\$75	\$220	\$220	No bid	\$199.18	\$230	\$220

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
60	I.	On-Site Inspection per ACI-304 and ACI-311.5R (Per Site Visit as Approved by the Engineer) (4 Hrs. Min.)	Per Hour	\$50	\$60	\$45	\$45	\$81	\$80	No bid	\$46.24	\$84	\$81
61	J.	Concrete Plant Inspection per ACI-311.5 (Mix and Weight Verification) (4 Hrs. Min.)	Per Hour	\$50	\$60	\$55	\$47	\$81	\$80	No bid	\$47.13	\$84	\$81
62	K.	Windsor Probe Test per ASTM C-803 (Penetration Resistance to Determine Uniformity) with Equipment Charge (Windsor Gun) (Min. 4 Hrs. per Trip)	Per Trip	\$150	\$200	\$250	\$35	\$270	\$270	\$247	\$198.17	\$280	\$270
63	L.	ASTM C-803 (Set of 3 Probes per Test)	Per Test	\$60	\$100	\$45	\$25	\$100	\$100	\$94	\$82.47	\$104	\$100
64	M.	Concrete Rebound Hammer Test per ASTM C-805 (Use of Spring Driven Steel Hammer to Determine Uniformity of In-Place Concrete) (4 Hrs. Min.)	Per Hour	\$45	\$60	\$55	\$35	\$81	\$80	\$63	\$49.87	\$84	\$81

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
65	N.	Pullout per ASTM C-900 (Includes Installation)	Per Test	\$125	\$350	\$550	\$300	\$343	\$343	No bid	\$285.24	\$335	\$343
66	O.	Thickness of Concrete per ASTM C-1383	Per Hour	\$45	\$60	\$55	\$150	\$67	\$67	No bid	\$49.97	\$70	\$67
67	P.	Radiography of Concrete to Locate Rebar (Min. 8 Hours)	Per Hour	\$75	\$225	\$175	\$150	\$81	\$80	No bid	\$79.91	\$84	\$81
68	Q.	Corrosion Activity per ASTM C-876	Per Hour	\$75	\$75	\$75	\$65	\$87	\$87	No bid	\$68.14	\$90	\$87
	<b>R.</b>	<b>Chloride Content</b>											
69	2R.1	Per ASTM C-1152	Per Test	\$80	\$125	\$55	\$60	\$125	\$125	\$112	\$96.31	\$129	\$125
70	2R.2	Per ASTM C-1218	Per Test	\$80	\$125	\$55	\$60	\$130	\$130	No bid	\$107.41	\$134	\$130
71	S.	Pachometer (Magnetometer) Readings for Rebar Location, Approximate Size and Spacing (4 Hrs. Min.)	Per Hour	\$60	\$60	\$55	\$45	\$81	\$80	\$58	\$69.86	\$84	\$81
72	T.	Los Angeles Abrasion per ASTM C-131 (Small Size Coarse Aggregate)	Per Test	\$150	\$150	\$450	\$75	\$220	\$220	No bid	\$199.97	\$227	\$220

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
73	U.	Sieve Analysis per ASTM - 136 (Min. 3 tests) (Includes collection of samples at site)	Per Test	\$80	\$60	\$155	\$55	\$73	\$73	\$58	\$65.16	\$80	\$110
74	V.	Absorption Fine Aggregate per ASTM C-128, Coarse Aggregate per ASTM C - 127	Per Test	\$45	\$60	\$55	\$55	\$73	\$73	\$58	\$65.16	\$80	\$73
75	W.	Specific Gravity Fine Aggregate per ASTM C-128, Coarse Aggregate per ASTM C- 127	Per Test	\$45	\$60	\$55	\$55	\$73	\$73	\$56	\$65.16	\$80	\$73
76	X.	Weight per Cubic Feet per ASTM C-29	Per Test	\$25	\$60	\$55	\$55	\$73	\$73	\$49	\$65.16	\$80	\$73
<b>3. PRE-STRESS / PRE-CAST</b> <b>(Includes Travel, Milage, Delivery, and Certified Reports)</b>													
77	A.	Pre-Stress/Pre-Cast Fabrication Inspection per PCI MNL-116 (Structural) or MNL-117(Architectural)(B ridge & Building Units/Ready Mix Plant Inspection) (4 Hrs. Min.)	Per Hour	\$70	\$60	\$55	\$55	\$85	\$80	No bid	\$65.86	\$84	\$110

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
78	B.	Pre-Stress (Inspection and Certified Report Included) (Stressing Operation and Inspection) per PCI MNL-116 (4 Hrs. Min.)*	Per Hour	\$70	\$60	\$55	\$55	\$85	\$80	No bid	\$65.86	\$84	\$110
79	C.	Reinforced Concrete Pipe and Pre-Fabricated Manhole Inspection (Types, Sizes and Design) (Includes Inspection and Certified Report) (4 Hrs. Min.)*	Per Hour	\$70	\$60	\$55	\$55	\$85	\$80	No bid	\$79.81	\$84	\$110
80	D.	Absorption Test of Pre-Cast Units per ASTM C-497	Per Core	\$45	\$50	\$55	\$55	\$60	\$52	No bid	\$51.43	\$54	\$55
81	E.	Three Edge Bearing Test per ASTM C-497	Per Hour	\$65	\$60	\$75	\$65	\$85	\$80	No bid	\$65.13	\$84	\$110
82	F.	Hydrostatic Testing per ASTM C-497	Per Hour	\$65	\$60	\$150	\$65	\$85	\$80	No bid	\$65.13	\$84	\$110
83	G.	Testing Concrete Cylinder per ASTM C-497	Per Cylinder	\$10.50	\$100	\$15	\$90	\$110	\$110	No bid	\$94.15	\$115	\$34
<b>4. PILING</b>													
84	A.	Pile Driving/Auger Cast Pile Inspection (Includes Certified Log/Report (4 Hrs. Min.))	Per Hour	\$50	\$60	\$55	\$55	\$81	\$80	\$56	\$62.41	\$84	\$81

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
	4A.1	Splice of Piles as an Addition (per Occurrence) (with Prior Approval from Engineer) (Witness Splice)	Per Hour	\$50	\$60	\$55	\$55	\$81	\$80	No bid	\$60.17	\$84	\$61
85	B.	Vibro-Flotation Inspection (4 Hrs. Min.)	Per Hour	\$50	\$60	\$55	\$55	\$81	\$80	No bid	\$65.16	\$84	\$81
86	C.	Pile Load Test - Test Frame and Load Set-up Witnessed by Certified Inspector per ASTM D-1143 (Equipment / Loads Furnished by Contractor)	Per Hour	\$95	\$60	\$55	\$75	\$81	\$80	\$55	\$46.24	\$84	\$81
87	4C.1	Furnishing and Set-up of Calibrated Gauges	Per Gauge	\$125	\$100	\$150	\$100	\$109	\$110	\$103	\$115.71	\$113	\$109
88	4C.2	Monitoring of Pile Load Test, Collect Field Data, and Inspector Time	Per Hour	\$45	\$60	\$55	\$75	\$81	\$80	\$64	\$49.87	\$84	\$81
89	4C.3	Pile Load Test Report, Certify and Prepare Report for Load Capacity of Pile. (Engineers' Time)	Per Hour	\$125	\$125	\$95	\$85	\$120	\$120	\$111	\$87.96	\$125	\$120

			Tally Engineering	Wingert Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
<b>5. GEOTECHNICAL SERVICES</b>													
90	A.	Mobilization of Truck-Mounted Drill Rig [If Site is <u>NOT</u> Accessible and Special / Additional Equipment is Required to Reach the Penetration Point(s), additional fees may be charge Upon Approval of the City.]	Per Job	\$200	\$150	\$300	\$200	\$350	\$350	\$326	\$269.65	\$365	\$350
	B.	<b><u>Borings Standard Penetration per ASTM D-1586:</u></b>											
		<b><u>With Casing:</u></b>											
91		Penetration Depth 0' to 50'	Per Foot	\$13	\$18	\$14	\$10	\$20	\$20	\$18	\$14.17	\$21	\$20
92		Penetration Depth 51' to 75'	Per Foot	\$13.50	\$20	\$16	\$11	\$24	\$24	\$21	\$18.49	\$25	\$24
93		Penetration Depth 76' to 100'	Per Foot	\$14	\$24	\$19	\$13	\$28	\$28	\$25	\$21.57	\$29	\$28
94		Penetration Depth 101' to 150'	Per Foot	\$16	\$30	\$23	\$15	\$34	\$34	\$31	\$27.19	\$36	\$34
		<b><u>Without Casing:</u></b>											
95		Penetration Depth 0' to 50'	Per Foot	\$9	\$14	\$11	\$8	\$15	\$15	\$14	\$14.17	\$21	\$20
96		Penetration Depth 51' to 75'	Per Foot	\$9.5	\$16	\$13	\$9	\$17	\$19	\$17	\$17.13	\$25	\$24
97		Penetration Depth 76' to 100'	Per Foot	\$10	\$18	\$16	\$11	\$19	\$23	\$21	\$20.41	\$29	\$28

			Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
98	Penetration Depth 101' to 150'	Per Foot	\$12	\$21	\$20	\$12	\$23	\$28	\$26	\$26.83	\$36	\$34	
	C.	<b>Auger Borings per ASTM D-1452 Penetration Depth:</b>											
99	Penetration Depth 0' to 50'	Per Foot	\$14	\$14	\$9	\$8	\$15	\$15	\$12	\$12.51	\$16	\$15	
100	Penetration Depth 51' to 75'	Per Foot	\$14.50	\$16	\$11	\$9	\$17	\$17	\$16	\$14.18	\$18	\$17	
101	Penetration Depth 76' to 100'	Per Foot	\$15	\$18	\$13	\$11	\$19	\$19	\$18	\$16.13	\$20	\$19	
102	Penetration Depth 101' to 150'	Per Foot	\$17	\$21	\$15	\$12	\$23	\$23	\$22	\$19.99	\$24	\$23	
	D.	<b>Rock Coring per ASTM D-2113 (Max. NX Size):</b>											
103	Penetration Depth 0' to 50'	Per Foot	\$40	\$30	\$25	\$31	\$34	\$34	\$30	\$28.36	\$36	\$34	
104	Penetration Depth 51' to 75'	Per Foot	\$50	\$40	\$35	\$35	\$40	\$40	\$36	\$33.36	\$42	\$40	
105	Penetration Depth 76' to 100'	Per Foot	\$60	\$44	\$45	\$39	\$47	\$47	\$42	\$39.20	\$49	\$47	
106	Penetration Depth 101' to 150'	Per Foot	\$70	\$50	\$55	\$42	\$53	\$53	\$50	\$44.20	\$55	\$53	
107	E.	Standard Penetration Test (Includes Mobilization and Soil Boring Log) (Portable Equipment)	Per Foot	\$21.5	\$24	\$125	\$20	\$25	\$25	\$21	\$21.39	\$26	\$25
108	5E.1	Standard Penetration Test (Water Boring) (Does Not Include Cost of the Barge)	Per Foot	\$22.5	\$45	\$125	\$20	\$50	\$50	\$45	\$39.67	\$52	\$50

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
109	F.	Undisturbed Sampling per ASTM D-15	Per Sample	\$150	\$100	\$45	\$20	\$110	\$110	\$96	\$91.74	\$114	\$110
110	G.	Slug Percolation Test-USGS / PWD 9" Dia. Hole (DERM) (Min. 2 per Job)	Per Test	\$500	\$375	\$350	\$325	\$400	\$400	\$374	\$338.57	\$415	\$400
111	H.	Double Ring Infiltration Test per ASTM D-3385 (Swale or Grassy Areas)	Per Test	\$500	\$450	\$450	\$375	\$460	\$460	\$432	\$385.65	\$474	\$460
	I.	<b>Percolation Tests</b>											
112	5 I.1	Fla. Department of Health and Rehabilitative Services, Chapter 100-6.57 (Min. 2 Tests per Job)	Per Test	\$400	\$325	\$300	\$200	\$344	\$344	\$325	\$286.86	\$355	\$344
113	5 I.2	DCPW Highway Division (Min. 12" Dia.) (Min. 2 Tests per Job)	Per Test	\$500	\$475	\$450	\$300	\$495	\$495	\$470	\$424.27	\$510	\$495
114	5 I.3	Open Hole Method (Min. 6" Dia.)(Min. 2 Tests)	Per Test	\$500	\$450	\$350	\$300	\$490	\$490	\$467	\$419.61	\$510	\$490
115	5 I.4	Utility Clearance (Min. 1 Hr. per Work Order)	Per Hour	\$75	\$45	\$75	\$55	\$65	\$60	\$55	\$77.86	\$80	\$100

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
116	J. Closing Holes with Grout / Approved Method(s) to Safeproof Site. [Safeproof to be Accomplished Before Laboratory Leaves the Site(s)]	Per Lineal Foot	\$4	\$6	\$4	\$3	\$8	\$8	\$6	\$8.19	\$10	\$8
117	K. Trench Test per So. Fla. Water Management District	Per Test	\$500	\$500	\$750	\$400 *Excludes Equip rental	\$487	\$487	\$460	\$449.87	\$510	\$487
118	L. Soil Cement Stabilization Field Inspection	Per Hour	\$50	\$60	\$55	\$45	\$81	\$80	No bid	\$62.41	\$84	\$81
	5L.1 Soil Cement Cylinder Testing	Per Hour	\$50	\$60	\$55	\$45	\$63	\$63	No bid	\$49.81	\$65	\$63
119	M. Water Quality Monitoring	Per Sample	\$500	\$75	\$75	\$15	\$81	\$81	No bid	\$62.41	\$84	\$81
120	N. Geotechnical Engineering Evaluation and Report of Existing Soil with Respect to Allowable Bearing Capacity.	Per Hour	\$125	\$125	\$95	\$80	\$120	\$120	\$90	\$79.86	\$125	\$120
121	O. Geotechnical Engineer Pile Capacity Analysis	Per Hour	\$125	\$125	\$125	\$80	\$120	\$120	\$112	\$83.71	\$125	\$120
122	P. Muck Probes	Per Hour	\$85	\$75	\$75	\$90	\$80	\$80	\$78	\$78.61	\$84	\$80
<b>6. SOILS</b>												
<b>(Includes Travel, Milage, Delivery, Certified Report and SAMPLE PICK-UP.)</b>												
A.	<b>Field Density Tests</b>											

				Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
123	6A.1	Sand Cone Method per AASHTO T-19 and ASTM D-1556 (2 Tests Min.)	Per Test	\$90	\$75	\$75	\$25	\$60	\$86	\$81	\$70.43	\$90	\$86
124	6A.2	Nuclear Method per AASHTO T-238 & ASTM D-2922, (Moisture per AASHTO T-239 & ASTM D-3017):	Per Test	\$25	\$30	\$25	No bid	No bid	No bid	\$45	\$36.23	\$50	\$48
125		Per Test (1 to 4), Per Trip	Per Test	\$18	\$30	\$25	\$18	\$38	\$48	\$45	\$36.23	\$50	\$48
126		Per Test (5 to 10), Per Trip	Per Test	\$15	\$28	\$22	\$16	\$35	\$33	\$31	\$32.48	\$35	\$33
127		Per Test (11/more), Per Trip	Per Test	\$12.50	\$25	\$20	\$15	\$33	\$29	\$27	\$29.48	\$30	\$29
128	6A.3	Maximum / Minimum Relative Density Tests per ASTM D-4253 and 4254 (Field and Laboratory)	Per Test	\$125	\$150	\$125	\$150	\$165	\$165	\$156	\$137.61	\$170	\$165
	6A.4	<b>Hourly Rate-(Min. 4 Hrs.)* (Unlimited Tests) (7AM to 6PM)</b>											
129		Per Hour	Per Hour	\$45	\$60	\$45	\$45	\$63	\$63	\$53	\$49.81	\$65	\$63
130		Over Time per Hour **	Per Hour	\$55	\$90	\$65	\$67.50	\$94	\$85	\$76	\$77.21	\$97.50	\$94.50

			Tally Engineering	Wingeter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
* If Laboratory Finishes Work in Less than the 4 Hr. Increment, they Shall be Paid for the Full 4 Hrs., if Time Runs Past the 4 Hr. Increment, Extra Hrs. Shall Be Paid at P/H Rate, Upon Approval from the City of Miami Gardens.												
131	6A.5 Evening Density Testing (9 P. M. to 6 A. M.) (Requested by City of Miami Gardens to be Performed in the Evening and Paid at Min. 4 Hrs.- Unlimited Tests - Same Conditions * Applied)	Per Hour	\$45	\$60	\$65	\$67.50	\$85	\$85	\$76	\$97.16	\$97.50	\$63
** Any O/T Performed in Addition to the Eight (8) Hr. Working Day, Shall be Paid at the O/Time Rate and Approved by the City prior to commencing the work.												
	<b>B.</b>	<b>Moisture Density Tests (Proctor) (Includes Sample Pick-Up)</b>										
132	6B.1 Standard per AASHTO T-99 and ASTM D-698 (Non-Traffic Areas) (Min. 2 Tests per Trip)	Per Test	\$125	\$100	\$75	\$55	\$128	\$128	\$118	\$106.75	\$132	\$130
133	6B.2 Modified per AASHTO T-180 and ASTM-1577 (Building / Highway Projects) (Min. 2 Tests per Trip)	Per Test	\$125	\$125	\$85	\$55	\$144	\$144	\$136	\$133.41	\$150	\$150
134	<b>C.</b> Limerock Bearing Ratio (LBR) - FDOT	Per Test	\$225	\$350	\$275	\$175	\$350	\$350	\$324	\$239.91	\$361	\$350

				Tally Engineering	Wingter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #		DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
135	D.	Carbonates on LBR Material (2 Tests per Trip)	Per Test	\$60	\$50	\$175	\$45	\$70	\$70	\$66	\$69.84	\$75	\$70
136	E.	Laboratory California Bearing Ratio (CBR) per ASTM D-1883 (One Point)	Per Test	\$125	\$275	\$175	\$300	\$270	\$270	\$246	\$231.67	\$280	\$270
137	6E.1	Lab Proctor Test	Per Test	\$125	\$125	\$85	\$275	\$144	\$144	\$125	\$139.41	\$150	\$144
138	6E.2	Three (3) Point CBR	Per Test	\$225	\$350	\$275	\$200	\$340	\$340	\$319	\$287.13	\$355	\$340
139	F.	Field California Bearing Ratio per Asphalt Institute MS-10 (1963) (Reaction Load by Others) (2 Tests Min.)	Per Test	\$450	\$400	\$350	\$350	\$405	\$405	No bid	\$394.68	\$418	\$390
140	G.	Moisture Content	Per Test	\$25	\$30	\$15	\$15	\$38	\$38	\$36	\$29.61	\$40	\$38
	H.	<b>Organic Content</b>											
141	6H.1	Limerock per AASHTO T-267 (by Incineration)	Per Test	\$25	\$50	\$45	\$40	\$50	\$50	\$45	\$46.32	\$52	\$50
142	6H.2	Test of Soil Chemical Analysis [(1972) P.R. Hesse P. 211] (by Peroxide)	Per Test	\$125	\$60	\$55	\$55	\$70	\$70	\$63	\$69.87	\$75	\$70

			Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
143	I. Grain Size per AASHTO T-27 (Sieve Analysis Only)	Per Test	\$50	\$60	\$55	\$50	\$64	\$64	\$58	\$61.87	\$66	\$64
144	J. Mechanical Analysis per ASTM D-422, T-11 and T-27 (Sieve and Hydrometer Analysis and Specific Gravity and Material)	Per Test	\$50	\$75	\$75	\$52.50	\$68	\$68	\$60	\$64.36	\$72	\$68
145	K. Soil Classification per ASTM D-3282 and D-2487 (AASHTO-Unified-FAA)	Per Test	\$125	\$60	\$75	\$80	\$96	\$96	\$92	\$83.47	\$100	\$96
146	L. Los Angeles Abrasion on Rip-Rap per ASTM C-535 (Large Size Coarse Aggregate)	Per Test	\$150	\$200	\$450	\$125	\$240	\$240	No bid	\$218.71	\$250	\$240
147	M. Soundness on Rip-Rap per ASTM C-88 (5 Cycle Sodium Sulphate)	Per Test	\$175	\$300	\$350	\$100	\$284	\$284	No bid	\$249.99	\$293	\$270
148	N. Soil Specific Gravity per ASTM D-854	Per Test	\$80	\$60	\$150	\$55	\$60	\$60	\$56	\$57.13	\$62	\$60
149	O. Material Finer than 200 Sieve per ASTM C-117	Per Test	\$50	\$40	\$25	\$35	\$45	\$45	\$40	\$42.17	\$47	\$45
150	P. Liquid Limit per ASTM D-4318 (Plastic and Plasticity)	Per Test	\$25	\$60	\$85	\$50	\$75	\$75	\$58	\$74.86	\$78	\$75

				Tally Engineering	Wingert Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #		DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
151	Q.	Salt Content per FDOT FM 5-516	Per Test	\$80	\$50	\$85	\$47.50	\$58	\$58	No bid	\$53.86	\$60	\$55
152	R.	Limerock Base Thickness Determination- Min. 3" Dia. Holes FAAP-211 (Min. 2 Tests)	Per Test	\$125	\$75	\$25	\$61	\$77	\$77	\$71	\$76.84	\$80	\$75
153		Unlimited Tests	Per Day	\$550	\$600	\$450	\$500	\$675	\$675	\$646	\$597.68	\$700	\$646
154	S.	Limerock Chemical Analysis per DCPW, FDOT (2 Tests Min.)	Per Test	\$125	\$70	\$175	\$70	\$85	\$85	No bid	\$81.97	\$90	\$81
155	T.	Limerock Chemical Analysis per DCAD FAAP-211 (2 Tests Min.)	Per Test	\$135	\$70	\$175	\$70	\$85	\$85	No bid	\$81.97	\$90	\$83
156	U.	Resistivity Test in Accordance with California Method 643-7 with Break-down for Test, Sampling, PH Measuremt. of Water and Soil, etc.	Per Test	\$150	\$140	\$185	\$115	\$144	\$144	No bid	\$137.63	\$150	\$135
157	V.	Sediments Tests	Per Test	\$75	\$70	\$185	\$55	\$72	\$72	No bid	\$69.42	\$75	\$69
	W.	<b>Soil Load Bearing Test (Plate Load) (Reaction Load by Others)</b>											
158	6W.1	Static Load on Footings per ASTM D-1194	Per Test	\$600	\$500	\$750	\$425	\$518	\$518	No bid	\$464.81	\$535	N/A No bid

			Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #		DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
159	6W.2	Repetitive Static Load for Pavement per ASTM D-1195 (Min of 3 tests)	Per Test	\$600	\$550	\$750	\$450	\$549	\$549	No bid	\$471.13	\$570	\$520
160	6W.3	Non-Repetitive Static Load for Pavement per ASTM D-1196 (Min of 3 tests)	Per Test	\$600	\$550	\$750	\$450	No bid	\$549	No bid	\$471.13	\$570	\$520
	<b>Y.</b>	<b>Soil Relative Density Tests (Vibro-Flotation / In-Situ Verification)</b>											
161	6Y.1	SPT Standard Penetration Test Soil Borings	Per Foot	\$15	\$16	\$12	\$10	\$16	\$16	\$12	\$18.61	\$18	\$15
162	Z.	Horticultural Service for PH Value of Soil	Per Test	\$15	\$40	\$35	\$35	\$42	\$42	No bid	\$41.14	\$75	\$43
163	AC.	Backfill Monitoring (4 Hrs. Min.)	Per Hour	\$45	\$60	\$45	\$55	\$65	\$65	\$59	\$46.21	\$70	\$77
164	AD.	Geotechnical Engineer (Min. 2 Hours)	Per Hour	\$85	\$125	\$125	\$80	\$120	\$120	\$101	\$89.91	\$125	\$120
<b>7. MONITORING WELLS (Includes Drilling)</b>													
165	<b>A.</b>	Monitoring Well Installation (2" PVC, Max. 20' Depth) (Min. of 2 tests)	Per Well	\$350	\$350	\$600	\$500	\$650	\$650	\$660	\$542.13	\$670	\$750

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
166	B.	Monitoring Well Abandonment (2" PVC, Max. 20' Depth) (Min. of 2 tests)	Per Well	\$350	\$250	\$250	\$120	\$273	\$273	\$175	\$227.68	\$285	\$375
167	C.	Monitoring Well Abandonment (4" PVC, Max. 20' Depth) (Min. of 2 tests)	Per Well	\$350	\$350	\$350	\$160	\$350	\$350	\$200	\$281.97	\$360.50	\$500
168	D.	Monitoring Well (4" PVC, Max. 20' Depth) (Min. of 2 tests)	Per Well	\$300	\$800	\$800	\$600	\$848	\$848	\$775	\$687.63	\$875	\$1,350
169	E.	Monitoring Well Installation (2" PVC, Greater than 20' up to 100')	Per Foot	\$20	\$70	\$35	\$35	\$70	\$70	\$35	\$56.71	\$75	\$70
170	F.	Repair of Monitoring Wells Unit Rates	Per Hour	\$75	\$75	\$75	\$120	\$935	\$935	\$80	\$106.87	\$970	\$920*
171	G.	<b>Water Quality Monitoring (Does Not Include Analytical Tests)</b>											
		(Per Location)	Per Trip	\$250	\$250	\$195	\$450	\$245	\$245	\$100	\$203.76	\$253	\$245*
172	H.	Direct Push Well Installation (20 Feet Max.) (Min. of 2 tests)	Per Well	\$550	\$750	TBD No bid	\$400	\$770	\$770	\$660	\$667.86	\$795	\$750
173	I.	Direct Push Soil / Groundwater Sampling	Per Day	\$1,500	\$1,500	TBD No bid	\$1,200	\$1,600	\$1,600	\$1,750	\$1,387.71	\$1,700	\$1,700

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
<b>8. TURBIDITY MONITORING (Boat Rental Extra at Cost)</b>												
174	A. Boat Rental (Min. 8 Hour Day) With Prior Approval by the Issuing Department (Furnish Copy of Ownership or Copy of Rental Invoice)	Per Test	\$125	\$100	TBD No bid	Quote No bid	\$450	N/A No bid	No bid	\$463.50	\$500	\$450
<b>9. STEEL</b>												
<b>(Use - AWA, AMS, AWS, ASME, API), as Applicable</b>												
175	A. Shop / Field Weld Inspection per ASTM D-5339 (4 Hrs. Min.)	Per Hour	\$85	\$80	\$65	\$75	\$81	\$81	\$60	\$47.13	\$84	\$55
<b>B. AWS, AWA, ASME Welder Tests - Groove or Fillet</b>												
176	Plate	Per Position	\$225	\$225	no bid	\$150	\$215	\$215	No bid	\$221.45	\$222	\$200
177	Pipe	Per Position	\$225	\$225	no bid	\$150	\$225	\$220	No bid	\$221.45	\$231	\$220
178	C. Reinforcing Steel Tensile Test	Per Test	\$300	\$275	no bid	\$160	\$131	\$131	\$124	\$111.13	\$135	\$125
179	D. Reinforcing Steel Deformation Test	Per Test	\$450	\$50	no bid	\$60	\$48	\$48	\$46	\$41.86	\$50	\$50
180	E. Reinforcing Bar Placement Inspection	Per Test	\$150	\$80	\$65 Per Hour	\$55	\$81	\$81	\$66	\$62.41	\$85	\$73
181	F. Chemical Laboratory Test	Per Hour	\$800	\$80	no bid	\$135	\$81	\$80	No bid	\$62.41	\$85	\$120

			Tally Engineering	Wingert Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
182	F.	Welding Inspection and Dye Penetrant Weld Testing	Per Hour	\$75	\$80	\$85	\$82	\$81	\$80	\$63	\$67.91	\$85	\$65
183	G.	Radiograph Weld Inspection (Min. 4 Hrs. per Test)	Per Test	\$135	\$125	\$250 Per Hour	\$165	\$140	\$140	\$115	\$107.86	\$145	\$115
	H.	<b>Engineering Services</b>											
184	9H.1	Special Inspector for Threshold Buildings (State Certified) (2 Hrs. Min.)	Per Hour	\$100	\$125	\$125	\$87.50	\$120	\$120	\$101	\$114.97	\$125	\$101
185	9H.2	Special Inspector Designee (2 Hrs. Min.)	Per Hour	\$50	\$75	\$65	\$55	\$120	\$120	\$60	\$114.97	\$125	\$53
186	9H.3	Special Inspector under the Florida Building Code (2 Hrs. Min.)	Per Hour	\$50	\$125	\$65	\$65	\$120	\$120	\$78	\$114.97	\$125	\$80

			Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
<b>10. ROOFING</b>													
<b>(All Tests Performed Shall be in Accordance with Current Edition of the Fla. Bldg. Code at Time Work is Issued, further, Laboratory Shall be part of the Current Listing of Certified Laboratories for Miami-Dade County BCCO, UL and Factory Mutual Underwriters.)</b>													
187	A.	Built-Up Roof Sample Analysis (Test Method for Moisture in Mineral Aggregate used for Built-Up Roofs) (ASTM D-1864) (Min. of 3 tests)	Per Test	\$175	\$50	\$150	\$55	\$53	\$53	\$50	\$43.21	\$55	\$50
188	B.	ASTM 3617 (Min. of 3 tests)	Per Test	\$400	\$300	\$350	\$250	\$305	\$300	No bid	\$234.68	\$315	\$290
189	C.	Compression Test - Roof Tiles (Min. of 3 tests)	Per Hour	\$85	\$55	\$70	\$45	No bid	\$58	No bid	\$48.38	\$95	\$55
190	D.	Absorption Test - Roof Tiles (Per Set of 5)	Per Set	\$400	\$250	\$350	\$200	\$232	\$232	No bid	\$193.49	\$240	\$220
191	E.	Up-lift Test of Roof Tiles (Per Set of 5)	Per Set	\$300	\$300	\$250	\$225	\$280	\$280	No bid	\$221.67	\$290	\$1,000
192	F.	Core Samples (per Architect / Engineer's Recommendations) (Min. of 3 tests)	Per Sample	\$95	\$75	\$75	\$60	\$73	\$73	No bid	\$57.24	\$80	\$100
	<b>G.</b>	<b>Visual Inspections</b>											
193		Per Job Min.	Per Job Min.	\$2,000	\$750	\$750	\$600	\$710	\$710	\$670	\$659.86	\$750	\$1,000

			Tally Engineering	Wingert Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
194		Per Square Feet	Per Sq. Ft.	\$0.45	\$.15	\$.20	\$.10	\$.16	\$.16	\$.15	\$.11	\$.20	\$.08
	<b>H.</b>	<b>Infrared Survey (Mobilization of Equipment)</b>											
195		Per Job Min.	Per Job Min.	\$2,000	\$800	\$1,500	\$500	\$790	\$790	\$785.67	\$749.87	\$825	\$1,500
196		Per Square Feet	Per Sq. Ft.	\$.45	\$.25	\$.30	\$.25	\$.26	\$.26	\$.25	\$.26	\$.35	\$.10
197	I.	Asbestos Testing	Per Sample	\$500	\$60	\$14 TBD	\$30	\$63	\$63	\$10	\$61.13	\$75	\$100 Min 10 per site
	<b>J.</b>	<b>Nuclear Moisture Testing</b>											
198		Per Job Min.	Per Job. Min	\$1,200	\$750	\$1,000	\$500	\$750	\$750	\$724	\$714.36	\$775	\$1,500
199		Per Square Feet	Per Sq. Ft.	\$0.40	\$.20	\$.25	\$.20	No bid	\$.21	\$.20	\$.21	\$.25	\$.10
200	K.	Fastener Withdrawal	Per Hour	\$85	\$75	\$70	\$45	\$85	\$100	\$58	\$49.17	\$200	\$81
201	L.	Bonded Pull Test ( Min. of 3 tests)	Per Test	\$450	\$150	\$400	\$140	\$200	\$200	\$161	\$179.86	\$210	\$325
202	M.	Engineer's Report	Per Hour	\$125	\$90	\$100	\$85	\$120	\$120	\$98	\$99.86	\$125	\$125
<b>11. SOLIDS / SOIL TESTING</b>													
203	A.	Arsenic EPA 206.3 (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$25.41	\$30	\$17
204	B.	Cadmium EPA 213.1 (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$30	\$17

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
205	C. Chromium EPA 218.1 (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$30	\$17
206	D. Iron EPA 236.1 (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$30	\$17
207	E. Lead EPA 239.1 (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$30	\$17
208	F. Mercury EPA 245.1 (Min. of 3 tests)	Per Test	\$25	\$40	\$30	\$35	\$43	\$43	\$40	\$40.87	\$45	\$22
209	G. Selenium EPA 270.3 (Min. of 3 tests)	Per Test	\$25	\$25	\$30	\$25	\$28	\$28	\$20	\$25.41	\$30	\$17
211	H. Silver EPA 272.1 (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$30	\$17
212	I. TCLP Extraction (Min. of 3 tests)	Per Test	\$80	\$125	\$95	\$75	\$145	\$145	\$100	\$149.35	\$150	\$75
213	J. Preparation Sludge / Soil (Min. of 3 tests)	Per Test	\$125	\$50	\$45	\$213	\$59	\$59	\$85	\$60.77	\$61	\$60*
214	K. Sampling (Environmental) (Min. of 3 tests)	Per Test	\$55	\$60	\$30	\$50	\$63	\$63	\$100	\$53.86	\$65	\$63*
215	L. Agricultural Soil Analysis (Min. of 3 tests)	Per Test	\$500	\$120	\$30	\$500	\$128	\$128	\$100	\$131.34	\$132	\$125*
216	M. Nitrogen - Nitrate (Min. of 3 tests)	Per Test	\$25	\$25	\$65	\$25	\$40	\$40	\$30	\$23.91	\$42	\$40
217	N. Nickel (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$29	\$27
218	O. Zinc (Min. of 3 tests)	Per Test	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$25.13	\$29	\$27
219	P. PH (Min. of 3 tests)	Per Test	\$15	\$15	\$25	\$7	\$21	\$21	\$15	\$10.41	\$22	\$20

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
<b>12. WATER TESTING</b>													
220	A.	PA 601 & 602 (Min. of 3 tests)	Per Test	\$135	\$150	\$145	\$130	\$168	\$168	\$125	\$173.04	\$174	\$165
221	B.	PA 610 (Min. of 3 tests)	Per Test	\$115	\$150	\$130	\$136	\$154	\$154	\$125	\$158.62	\$159	\$154
222	C.	EPA 8100 (Min. of 3 tests)	Per Test	\$135	\$150	\$265	\$136	\$165	\$165	\$125	\$169.95	\$170	\$165*
223	D.	EPA 504.1 (Min. of 3 tests)	Per Test	\$135	\$90	\$145	\$42	\$90	\$90	\$75	\$92.70	\$93	\$88*
224	E.	EPA 239.2 (Min. of 3 tests)	Per Test	\$18	\$45	\$30	\$25	\$48	\$48	\$20	\$49.44	\$50	\$46*
225	F.	EPA 418.1 (Min. of 3 tests)	Per Test	\$55	\$30	\$125	\$91	\$95	\$95	\$110	\$97.85	\$98	\$92*
226	G.	PH (Min. of 3 tests)	Per Test	\$15	\$30	\$25	\$7	\$32	\$32	\$15	\$18.86	\$33	\$31
227	H.	BOD (Min. of 3 tests)	Per Test	\$40	\$50	\$75	\$32	\$50	\$50	\$70	\$41.31	\$52	\$48
228	I.	COD (Min. of 3 tests)	Per Test	\$40	\$50	\$65	\$32	\$48	\$48	\$40	\$27.13	\$50	\$45

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
	J.	<b>Bacteriological Water (Potable) Analysis (Includes Sample Pick-Up) Potable Water Sample Tested by Laboratory for Bacteriological Quality with "Standard Methods for the Examination of Water and Wastewater".</b>											
229	12J.1	Total Coliforms (Standard Method No. 9222B) (Min. of 3 samples)	Per Sample	\$35	\$45	\$135	\$32	\$46	\$46	\$85	\$47.38	\$48	\$45
230	12J.2	Total Coliforms with Confirmation for E-Coli (Std. Method No. 92223B) (Min. of 3 samples)	Per Sample	\$35	\$45	\$135	\$45	\$46	\$46	\$85	\$47.38	\$48	\$45
231	12J.3	Presence / Absence of Coliform Groups (Standard Method No. 9221D) (Min. of 3 samples)	Per Sample	\$35	\$45	\$135	\$32	\$46	\$46	\$60	\$47.38	\$48	\$45
232	K.	Copper (Min. of 3 samples)	Per Sample	\$18	\$25	\$30	\$25	\$28	\$28	\$20	\$15.41	\$29	\$27
233	L.	Phenols (Min. of 3 tests)	Per Test	\$40	\$100	\$135	\$160	\$100	\$100	\$140	\$44.89	\$104	\$125
234	M.	Oil & Grease (Min. of 2 tests)	Per Test	\$50	\$60	\$75	\$65	\$72	\$72	\$85	\$41.41	\$75	\$69
235	N.	Total Dissolved Solids (Min. of 3 tests)	Per Test	\$20	\$25	\$35	\$26	\$28	\$28	\$30	\$23.82	\$29	\$26

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
236	O. Total Suspended Solids (Min. of 3 tests)	Per Test	\$20	\$25	\$35	\$26	\$28	\$28	\$30	\$23.82	\$29	\$26
237	Q. Soil 8010 / 8020 (Min. of 3 tests)	Per Test	\$115	\$150	\$165	\$91	\$180	\$180	\$125	\$185.40	\$186	\$177*
238	R. Bacteriological Testing for Potable Water Mains (Min. of 3 tests)	Per Test	\$35	\$80	\$95	\$30	\$85	\$85	\$175	\$87.55	\$88	\$69*
<b>13. MECHANICAL</b>												
239	A. Sound Surveys (Includes Travel Time)	Per Hour	\$70	\$65	\$75	\$85	\$98	\$98	No bid	\$100.94	\$110	\$160
240	B. Lighting Surveys (Includes Travel Time)	Per Hour	\$70	\$65	TBD No bid	\$115	\$98	\$98	No bid	\$100.94	\$110	\$160
<b>14. ASBESTOS TESTING (Includes Sample Pick-Up)</b>												
241	A. PLM (Polarized Light Microscopy) (Min. of 12 samples)	Per Sample	\$35	N/A No bid	\$13	\$10	\$40	\$40	\$10	\$39.87	\$42	\$40

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
242	B.	PCM (Phase Contract Microscopy) (Min. of 10 samples)	Per Sample	\$35	TBD No bid	\$12	\$8	\$30	\$30	\$10	\$29.17	\$31	\$40
243	C.	TEM (Transmission Electron Microscopy) (Min. of 5 samples)	Per Sample	\$75	TBD No bid	TBD No bid	\$55	\$200	\$200	\$85	\$189.91	\$210	\$230
<b>15. FIRE PROOFING</b>													
	<b>A.</b>	<b>Inspection of Sprayed-On Fireproof Coating on Structural Steel.</b>											
244	15A.1	One Day (8 Hrs) (8AM to 5PM)*	Per Hour	\$50	\$65	\$55	\$45	\$640	\$80	\$52	\$46.31	\$85	\$55
245	15A.2	Overtime Rate*	Per Hour	\$65	\$90	\$75	\$67.50	\$120	\$120	\$70	\$71.86	\$127.50	\$70
246	15A.3	Laboratory Unit Weight Test of Fireproofing Coating per ASTM E-605 (Min. of 3 tests)	Per Test	\$75	\$60	\$55	\$45	\$60	\$60	\$52	\$51.71	\$65	\$55
247	15A.4	Field Adhesion / Cohesion Tests per ASTM E-736	Per Test	\$75	\$60	\$65	\$45	\$122	\$122	\$111	\$101.75	\$130	\$115

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
248	<b>16. STRAIN MEASUREMENTS (SR4 INDICATOR)</b>												
249	A.	Technician Services to Install Gauges/Make Strain Reading (4 Hr. Min.)	Per Hour	\$65	\$65	\$65	\$55	\$81	\$80	No bid	\$45.99	\$85	\$70
	<b>17. ULTRASONIC INSPECTIONS</b>												
250	A.	Services of an Ultrasonic Technician and Equipment (8 Hours Min.)	Per Hour	\$95	\$90	\$150	\$100	\$125	\$125	\$75	\$96.31	\$130	\$75
251	B.	Assistant Technician (8 Hours Min.)	Per Hour	\$50	\$65	\$65	\$65	\$58	\$58	\$52	\$61.86	\$60	\$55
	<b>18. STRUCTURAL STEEL</b>												
252	A.	Welding Inspector Per AWS Code (4 Hrs. Min.)	Per Hour	\$85	\$85	\$65	\$93	\$81	\$80	\$72	\$77.86	\$85	\$85
253	B.	Structural Steel Shop or Field Inspector (4 Hrs. Min.)	Per Hour	\$85	\$85	\$65	\$71	\$81	\$80	\$55	\$77.86	\$85	\$55
	C.	<b>Bolt Tightening Inspection by Using:</b>											
254	18C.1	Torque Wrench	Per Hour	\$45	\$85	\$65	\$87	\$81	\$80	\$67	\$77.86	\$85	\$67

			Tally Engineering	Wingert Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
255	18C.2	Reg. Wrench	Per Hour	\$45	\$85	\$65	\$86	\$81	\$80	\$66	\$77.86	\$85	\$70
256	18C.3	Filler Gauge	Per Hour	\$45	\$85	\$65	\$85	\$81	\$80	\$65	\$77.86	\$85	\$65
<b>19. WELDING</b>													
257	A.	AWS Certified Welding Inspector (2 Hrs. Min.)	Per Hour	\$85	\$100	\$65	\$90	\$81	\$80	\$69	\$77.86	\$85	\$75
258	B.	AWS Certified Welding Inspector / 1 Hr. PADI Certified (Min. 2 Inspectors per Inspection)	Per Hour	\$125	\$200	TBD No bid	\$225	\$140	\$140	No bid	\$141.87	\$150	\$125
<b>20. MAGNETIC PARTICLE TESTING (MAGNAFLUX)</b>													
259	A.	Services of a Non-Destructive Technician	Per Hour	\$75	\$80	No bid	\$85	\$81	\$80	\$66	\$76.86	\$85	\$70
260	B.	Magnaflux Testing	Per Test	\$75	\$80	No bid	\$90	\$77	\$77	\$69	\$75.86	\$80	\$75
<b>21. UNDERGROUND UTILITY LOCATION &amp; INSPECTION</b>													
261	A.	Utility Designation - Electronically Scan and Determine the Horizontal and Vertical Location of Buried Utility Lines.	Per Hour	\$75	\$150	\$225 4 hr. min	\$300	\$145	\$145	No bid	\$138.76	\$150	\$150

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
	<b>B. Expose Utility Lines by Air/Vacuum System (Soft Dig), Creating a Small Dia. Hole, to be Plotted on Base Maps to Scale. Work Reviewed &amp; Certified by a Florida Registered Land Surveyor. (Incl. Cost Associated with Restoration &amp; Photographs/Drawings to Document/Generate Complete Certified Report.</b>											
262	Per Test Hole (In Pavement)	Per Test	TBA No bid	\$650	\$400	\$585	\$640	\$640	No bid	\$649.86	\$700	\$550
263	Per Test Hole (In Soil)	Per Test	TBA No bid	\$800	\$350	\$487.50	\$830	\$830	No bid	\$851.71	\$855	\$400
264	C. Utility Location Inspector to Verify and Coordinate Location and Documentation of Utility Company (Min. 2 Hrs. per Job )	Per Hour	\$50	\$75	\$65	\$195	\$75	\$75	No bid	\$79.81	\$85	\$105
<b>22. INDOOR AIR QUALITY TESTING</b>												
	<b>A. Environmental Laboratory Analysis Fees:</b>											
	<b>22A.1 On-Site Collection</b>											
<u>Bioaerosols: 5 Predominant Organisms Identified</u>												
265	Bacteria-Only Single, Characterization and Quantization (Min. of 3 samples)	Per Sample	\$80	N/A No bid	\$135	\$218	\$230	\$230	\$60	\$231.10	\$240	\$175
266	Fungi or Bacteria, Qualitative Only (Min. of 3 samples)	Per Sample	\$80	N/A No bid	\$75	\$218	\$230	\$230	\$45	\$169.81	\$240	\$40

			Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
267	Microscopic Only (Air-O-Cell) (Min. of 3 samples)	Per Sample	\$70	N/A No bid	\$50	\$143	\$160	\$160	\$60	\$161.13	\$165	\$45
22A.2	<b>On-Site Collection</b>											
	<b>Bulk / Wipe Samples: 5 Predominant Organisms Identified</b>											
268	Fungi, Characterization and Quantization (Min. of 3 samples)	Per Sample	\$80	N/A No bid	\$50	\$207	\$155	\$155	\$60	\$149.81	\$160	\$115
269	Bacteria, Characterization and Quantization (Min. of 3 samples)	Per Sample	\$80	N/A No bid	\$55	\$276	\$155	\$155	\$60	\$149.81	\$160	\$175
270	Both Fungi or Bacteria, Qualitative Only (Min. of 3 samples)	Per Sample	\$70	N/A No bid	\$55	\$230	\$147	\$147	\$50	\$144.79	\$152	\$40
	Both Fungi or Bacteria, Qualitative (Colony Count) (Min. of 3 samples)	Per Sample	\$70	N/A No bid	\$75	\$184	\$140	\$140	\$50	\$139.83	\$145	\$45

			Tally Engineering	Wingerter Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
	<b>22A.3 On-Site Collection</b>											
	<b><u>Legionella Pneumophila:</u></b>											
271	Detection (Min. of 3 samples)	Per Sample	\$130	N/A No bid	\$120	\$339	\$220	\$220	\$125	\$219.87	\$230	\$110
272	Identification (Min. of 3 samples)	Per Sample	\$130	N/A No bid	\$165	\$339	\$247	\$247	\$125	\$249.81	\$260	\$143
	<b>22A.4 On-Site Collection</b>											
	<b><u>Other Microbiological &amp; Special Culture:</u></b>											
273	Cryptococcus (Bulk) (Min. of 3 samples)	Per Sample	TBA No bid	N/A No bid	\$70	\$339	\$380	\$380	\$100	\$389.81	\$395	\$110
274	Other Pathogens (Min. of 3 samples)	Per Sample	TBA No bid	N/A No bid	\$100	\$339	\$515	\$515	\$100	\$527.61	\$535	\$341
	<b>22A.5 On-Site Collection</b>											
	<b><u>Allergen Essay:</u></b>											
275	Mite Characterization and Qualitative (Min. of 3 samples)	Per Sample	\$110	N/A No bid	\$100	\$241	\$228	\$228	\$60	\$226.41	\$235	\$40
276	Cat Characterization and Qualitative (Min. of 3 samples)	Per Sample	\$110	N/A No bid	\$75	\$241	\$220	\$220	\$60	\$219.81	\$230	\$40
277	Cockroach Characterization and Qualitative (Min. of 3 samples)	Per Sample	\$110	N/A No bid	\$75	\$241	\$228	\$228	\$60	\$229.81	\$235	\$40

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ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price
278	Endotoxin Characterization and Qualitative (Min. of 3 samples)	Per Sample	\$130	N/A No bid	\$120	\$322	\$280	\$280	\$60	\$284.14	\$290	\$115
279	Allergen Essay (All of the Above) (Min. of 3 samples)	Per Sample	\$400	N/A No bid	\$220	\$483	\$425	\$425	\$180	\$431.81	\$440	\$237
22A.6	<b>On-Site Collection</b>											
	<b>Chemical Essay:</b>											
280	Total Volatile Organic Compounds (TVOC) (Min. of 3 samples)	Per Sample	\$500	N/A No bid	\$260	\$218	\$310	\$310	\$75	\$297.87	\$320	\$275
281	Pesticide (Min. of 3 samples)	Per Sample	\$500	N/A No bid	\$260	\$460	\$390	\$390	\$220	\$391.67	\$405	\$247
22A.7	<b>On-Site Collection</b>											
	<b>Particulate Analysis:</b>											
282	Gravimetric Analysis (Min. of 3 samples)	Per Sample	\$50	N/A No bid	\$25	\$126	\$185	\$185	\$70	\$187.61	\$195	\$143
283	Laser Diode Particulate Analysis (Min. of 3 samples)	Per Sample	\$50	N/A No bid	No bid	\$143	\$332	\$332	\$100	\$337.71	\$342	\$165
284	Microscopic Evaluation (Air-O-Cell) (Min. of 3 samples)	Per Sample	\$50	N/A No bid	\$65	\$207	\$220	\$220	\$60	\$221.86	\$230	\$68

			Tally Engineering	Wingert Laboratories	Universal Engineering	GFA International	CES Consultants	Terracon	ATC Associates	All State Engineering	Advanced Construction Inspections	MACTEC	
ITEM #	DESCRIPTION	UNIT	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	Unit Price	
285	B.	Certified Industrial Hygienist	Per Hour	\$150	N/A No bid	No bid	\$120	\$125	\$125	\$110	\$128.75	\$140	\$110
<b>23. ADDITIONAL ITEMS</b>													
286	A.	Additional Reports (When Required by City of Miami Gardens)	Per Page	\$0.05	\$0.15	\$0.25	\$10	\$7.50	\$2	\$0.75	\$49.71	\$0.75	\$0.85
<b>24. MAINTENANCE OF TRAFFIC</b>													
287	A.	Cones, Signs, Flags, Arrow Boards, Barricades	Per Day	\$500	\$100	TBA No bid	\$13	N/A No bid	N/A No bid	No bid	TBA No bid	\$1,000	\$260
288	B.	Law Officers	Per Hour	\$65	TBA No bid	TBA No bid	\$55	N/A No bid	N/A No bid	No bid	\$75	\$1,000	\$50
289	C.	Attenuator Truck	Per Day	\$100	TBA No bid	TBA No bid	\$1,000	N/A No bid	N/A No bid	No bid	TBA No bid	\$1,000	\$1,500
290	D.	Mobile Variable Message Sign	Per Day	\$35	TBA No bid	TBA No bid	\$85	N/A No bid	N/A No bid	No bid	TBA No bid	\$1,000	\$200
<b>25. ENGINEERING SERVICES</b>													
291	A.	Draftsperson (C.A.D. Operator)	Per Hour	\$40	\$70	\$50	\$45	\$70	\$70	\$50	\$72.13	\$75	\$55
292	B.	Professional Engineer	Per Hour	\$125	\$125	\$115	\$85	\$120	\$120	\$101	\$114.81	\$125	\$120
293	C.	Engineer	Per Hour	\$95	\$90	\$95	\$70	\$85	\$85	\$70	\$131.86	\$84	\$110
294	D.	Principal	Per Hour	\$125	\$150	\$135	\$120	\$160	\$160	\$151	\$131.86	\$165	\$175
295	E.	Clerical / Administrative	Per Hour	\$35	\$40	\$45	\$35	\$45	\$45	\$40	\$39.99	\$48	\$50
296	F.	Project Manager	Per Hour	\$65	\$60	\$95	\$65	\$75	\$85	\$75	\$49.81	\$84	\$130

\* on Mactec prices = (\*Depends on site conditions).

Mactec – Labor not Included on category. **22. INDOOR AIR QUALITY TESTING**

Mactec - \$150 per trip on categories: **1. ASPHALT CONCRETE, 2. CONCRETE TESTING, 3.PRE-STRESS/PRECAST, 6. SOILS**

ATC- Mobilization Charge \$250 Per Trip on Item #173 category **I. Direct Push Soil/Groundwater Sampling**

Universal Engineering –Category. **21. UNDERGROUND UTILITY LOCATION & INSPECTION**

\$225 per hour 4 hr. min on

**B. Expose Utility Lines by Air/Vacuum System (Soft Dig), Creating a Small Dia. Hole, to be Plotted on Base Maps to Scale. Work Reviewed & Certified by a Florida Registered Land Surveyor. (Incl. Cost Associated with Restoration & Photographs/Drawings to Document/Generate Complete Certified Report.**