

# ANDERSEN ANDRE CONSULTING ENGINEERS, INC.

Geotechnical Engineering  
Construction Materials Testing  
Environmental Consulting  
PH. (772) 807-9191

Contact: David Andre, P.E. [dandre@aaaceinc.com](mailto:dandre@aaaceinc.com)

## ANDERSEN ANDRE CONSULTING ENGINEERS, INC. FEE SCHEDULE (EFFECTIVE 2018-2021)

### ● CONSTRUCTION MATERIALS TESTING SERVICES ●

#### SOIL TESTING – FIELD

Field Density Tests - minimum of four per trip (Nuclear Method – ASTM - D-2922).....	\$24.00/test
Engineering Technician Time	
Penetrometer Tests .....	\$59.00/hr.
Standby Time .....	\$59.00/hr.
Inspection and Monitoring Fill Placement.....	\$59.00/hr.
Monitoring Muck Excavation & Backfill.....	\$59.00/hr.

#### SOIL TESTING – LABORATORY

Modified Proctor – ASTM D-1557 .....	\$85.00/ea.
Standard Proctor – ASTM D-698 .....	\$85.00/ea.
Florida Bearing Value (FBV) – FM-5-517 .....	\$60.00/ea.
Limerock Bearing Ratio (LBR) – FM-5-515 .....	\$315.00/ea.
Proctor/LBR/FBV Sample Pickup (If Not Scheduled With Other Work).....	\$59.00/hr
Moisture Content – ASTM D-2216 .....	\$20.00/ea.
Organic Content – ASTM D-2974.....	\$35.00/ea.
Carbonate Content – FM-5-514.....	\$65.00/ea.
Atterberg Limits - ASTM D-4318 .....	\$90.00/ea.
Corrosion Series Testing - (pH, sulfate, chloride, resistivity) .....	\$190.00/ea.
Soil Particle Size Analysis (ASTM D-422)	
Dry Sieve Analysis – 1 inch to No. 200 .....	\$65.00/ea.
Washed Sieve Analysis – 1 inch to No. 200 .....	\$95.00/ea.
Washed Sieve Analysis – No. 200 only.....	\$50.00/ea.
Hydrometer Analysis – Passing No. 200.....	\$165.00/ea.
Road Base Particle Size Analysis	
Sample Preparation .....	\$35.00/ea.
Washed sieve analysis .....	\$95.00/ea.
Laboratory Permeability Testing of Soil (ASTM D-2434)	
Constant Head or Falling Head .....	\$175.00/test
Specific Gravity of Rock/Cores (ASTM D-854) .....	\$125.00/test
L.A. Abrasion of Rock/Aggregate (ASTM C535) .....	\$275.00/test

Andersen Andre Consulting Engineers, Inc. ● 834 SW Swan Avenue, Port St. Lucie, FL 34983 ●  
Ph. (772) 807-9191 ● [www.aaaceinc.com](http://www.aaaceinc.com) ● Contact: David Andre, P.E. [dandre@aaaceinc.com](mailto:dandre@aaaceinc.com)

*CONCRETE SAMPLING AND TESTING (Indian River County)*

Compressive Strength Samples of normal weight concrete (ASTM C-31).....	\$88.00/set
Includes: sampling (ASTM C-172), Slump (ASTM C-143)	
Temperature (ASTM C-1064), Molding (ASTM C-31)	
Curing & Testing (ASTM C-39) for 1 Set of Four Test Cylinders	
Additional cylinders (more than 4 per set) .....	\$20.00/cyl.
Additional slump tests (more than 1 per set) .....	\$15.00/ea.
Compressive strength of CMU grout Samples (ASTM C-1019):.....	\$88.00/set
Includes, Slump if requested, Temperature and Molding	
1 Set of Four Grout Prisms	
Technician Standby time due to construction delays in excess of 1.0 hour per set of cylinders/prisms .....	\$59.00/hr.
Sample pick-up if not scheduled with other work .....	\$59.00/set
Curing and strength testing of concrete samples F.O.B.our laboratory (ASTM C-39):...	\$20.00/cyl.
Continuous monitoring of concrete placement .....	\$59.00/hr.
Air Content by Volumetric Method (ASTM C-173).....	\$35.00/test
Air Content by Pressure Method (ASTM C-231) .....	\$45.00/test
Unit Weight and Yield (ASTM C-138) .....	\$45.00/ea.
Fineness Modulus. ....	\$55.00/ea.
Concrete blocks (ASTM C-140)	
Strength tests (gross area basis) .....	\$45.00/block
Strength tests (net area basis).....	\$75.00/block
Absorption .....	\$30.00/block
Masonry Mortar – 2" x 2" cubes molded at site (3 per set) .....	\$90.00/set

*SAMPLING AND TESTING OF IN-PLACE CONCRETE*

Core samples	
Mobilization .....	\$100.00/day
Technician time (2 man crew) .....	\$59.00/man-hr.
Core machine .....	\$150.00/day
Generator (if required).....	\$50.00/day
Diamond bit wear - per inch diameter per inch length .....	\$0.35/in/in
Sample preparation (Measuring, Trimming & Capping).....	\$ 35.00/core
Compressive Strength tests .....	\$20.00/core

Swiss Hammer:

Equipment Fee . . . . .	\$50.00/day
Senior Technician time . . . . .	\$65.00/hr.

Windsor probe:

Equipment Fee . . . . .	\$135.00/day
Charges per set of 3 shots . . . . .	\$75.00/set
Staff Engineer/ Senior Technician Field time . . . . .	\$75.00/hr.

Rebar Location

R-Meter . . . . .	\$75.00/day
Technician time . . . . .	\$65.00/hr.

*ASPHALT FIELD INSPECTION, SAMPLING AND LABORATORY TESTING*

Pavement Cores for thickness verification, base thickness & subbase description

Mobilization . . . . .	\$100.00/day
Core Machine . . . . .	\$150.00/day
Generator . . . . .	\$50.00/day
Technician time (2 man crew) . . . . .	\$59.00/man-hr.
Diamond bit wear - per inch diameter per inch of depth . . . . .	\$0.35/in/in
Flag men and barricades if needed for safety and M.O. T. . . . .	\$55.00/hr./man

Laboratory Testing Services

Unit weight of cores . . . . .	\$35.00/core
Marshall Stability & Flow . . . . .	Upon Request
Extraction and gradation tests . . . . .	Upon Request

*STRUCTURAL STEEL*

Bolted connections

Torque Wrench . . . . .	\$100.00/day
Project Engineer . . . . .	\$95.00/hr.
Sr. Engineering Technician . . . . .	\$78.00/hr.

Field inspection of steel reinforcement placement

Senior Project Engineer (P.E.) . . . . .	\$120.00/hr.
Project Engineer (P.E.) . . . . .	\$95.00/hr.
Staff Engineer . . . . .	\$80.00/hr.
Senior Engineering Technician . . . . .	\$78.00/hr.
Engineering Technician . . . . .	\$59.00/hr.

*TRAVEL CHARGES*

Charges to be determined per job – most jobs are billed portal to portal

*SUBCONTRACTING SERVICES*

Cost plus 15%

*OVERTIME AND HOLIDAY*

Overtime rates will apply to all work scheduled or completed on weekends and holidays and prior to 7:00 AM and after 5:00 PM on weekdays.

Weekdays prior to or after normal working hours . . . . .	1.50 x normal rate
Weekends . . . . .	1.50 x normal rate
Holidays . . . . .	2.00 x normal rate

All invoices are due and payable upon receipt unless other arrangements have been made previously.

● **SUBSURFACE EXPLORATION SERVICES** ●

Mobilization & demobilization of drilling crew and equip . . . . .	Varies (\$250.00 for Indian River Cnty.)
Layout of boring locations, and coordination of underground utility locating . . . . .	\$80.00/hr

Standard Penetration Test (SPT) borings  
(ASTM D-1586) in soil (N-values less than 50):

From surface to depths of 25 feet . . . . .	\$14.00/foot
From 26 to 50 feet . . . . .	\$15.00/foot
From 51 to 75 feet . . . . .	\$17.00/foot
From 76 to 100 feet . . . . .	\$19.00/foot

Additional charge for SPT in high resistance soil/rock (N-values greater than 50) . . . . .	\$5.00/foot
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Continuous SPT testing and sampling . . . . .	\$25.00/sample
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Other subsurface sampling and testing methods:

Auger borings (ASTM D-1452) . . . . .	\$10.00/foot
Muck probings . . . . .	\$550.00/technician/day

Wash borings(cutting only):

Soil . . . . .	\$9.00/foot
Rock . . . . .	\$12.00/foot

Undisturbed sampling:

Shelby tube . . . . .	\$125.00/sample
Fixed piston . . . . .	\$135.00/sample
Dutch Cone Soundings . . . . .	varies
Piezocone Soundings . . . . .	varies

Other Charges:

Standby time (per crew hour) .....	\$125.00/hour
Borehole grouting and sealing .....	\$125.00/hour plus materials
Furnish, install and remove casing .....	\$10.00/foot
Lodging and per diem (crew-man/day) .....	\$150.00/day
Materials .....	cost + 20%

Special Drilling:

Barge drilling .....	varies
NQ wireline coring .....	varies
Drilling at depths in excess of 100 feet .....	varies
Large diameter boreholes .....	varies

Groundwater Sampling:

Installation of piezometers and observation wells .....	varies
Special piezometer of polluted soil and groundwater .....	varies

Subsurface Permeability Tests:

SFWMD Exfiltration test .....	\$375.00/test
Borehole Permeability test .....	\$375.00/test
Double Ring Infiltrometer test .....	\$500.00/test

● **ENGINEERING SERVICES** ●

Inspection of construction procedures, data evaluation, engineering analyses, and report preparation

Principal Engineer (P.E.) .....	\$135.00/hr.
Senior Project Engineer (P.E.) .....	\$120.00/hr.
Project Engineer .....	\$95.00/hr.
Staff Engineer .....	\$80.00/hr.
Senior Transportation/Roadway Technician .....	\$75.00/hr.
Senior Engineering Technician .....	\$59.00/hr.
Engineering Technician .....	\$50.00/hr.
CAD Draftsman / Technical Secretary .....	\$48.00/hr.



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**David P. Andre, P.E.**  
**Principal Engineer**

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**Indian River County RFQ 2018042 - Geotechnical Annual Services Renewal  
Continuing Geotechnical Services Fee Schedule  
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Proposal No. PHB185023**

**I. SOIL & AGGREGATE TESTING**

A.	Standard or Modified Proctor (T99 or T180)	\$110.00/test
B.	Field Density Test by the Sand-Cone Method (T191) (Minimum of 4 tests per trip)	\$28.00/test
C.	Field Density by the Drive-Sleeve Method (T204) (Minimum of 4 tests per trip)	\$28.00/test
D.	Field Density by the Nuclear Method (T238) (includes moisture content determination, T239) (Minimum of 4 tests per trip)	\$25.00/test
E.	Field Sampling for Laboratory Testing	\$55.00/hour
F.	Limerock Bearing Ratio (FM 5-515) (LBR)	\$320.00/test
G.	Sieve Analysis of Fine and Coarse Aggregates (T27)	\$70.00/test
H.	Particle-size Analysis of Soil (T88)	\$60.00/test
I.	Percent Finer than the U.S. No.200 Sieve (FM 1-T 011)	\$50.00/test
J.	Liquid Limit of Soils (T89)	\$50.00/test
K.	Plastic Limit and Plasticity Index of Soils (T90)	\$50.00/test
L.	Organic Content of Soils (T267)	\$50.00/test
M.	Carbonates of Calcium and Magnesium (FM 5-514)	\$75.00/test
N.	Permeability of Granular Soils (sands) (Constant Head) (T125)	\$195.00/test
O.	Unconsolidated, Undrained (UU) Compressive Strength of Cohesive Soils in Trail Compression (T296)	\$235.00/point
P.	Consolidated, Undrained (CU) Triaxial Compression Test on Cohesive Soils (D4767)	\$395.00/point
Q.	Consolidation Testing of Undisturbed Sample (T216)	\$450.00/sample

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R.	Unconfined Compressive Strength of Cohesive Soil (undisturbed sample) (D2166)	\$55.00/test
S.	Unconfined Compressive Strength of Cohesive Soil (remolded sample) (D2166)	\$75.00/test
T.	Direct Shear Test of Soils Under Consolidated Drained Conditions (D3080)	\$235.00/test
U.	Soil Corrosivity (pH, sulfate, chloride, resistivity)	\$195.00/test

**II. CONCRETE TESTING**

A.	Compressive Strength of Cylindrical Concrete Specimens (T22); includes one (1) slump test, (1) temperature measurement, molding, transporting, curing and laboratory testing (4 cylinders per set)	\$95.00/set
B.	Flexural Strength of Concrete Using Simple Beam with 3rd-Point Loading (T97); slump, temperature, molding, transporting, curing and testing (3 beams per set)	\$125.00/set
C.	Compressive Strength of Hydraulic Cement Mortar (T106) 3 cubes per set)	\$85.00/set

*Engineering technician time spent on concrete testing services will be billed at \$55.00 per hour for on-site standby time in excess of 1 hour per set, cylinder set pickup performed not in conjunction with other field testing services, and cancellation without notice. Continuous monitoring of fresh concrete and/or additional slump and temperature tests, or air content and unit weight testing will be billed on an hourly basis at \$55.00 per hour.*

D.	Field Coring of Hardened Concrete (2" or 4" diameter) <ul style="list-style-type: none"><li>• Field Coring – Sr. technician time, portal-to-portal; usually requires two technicians</li></ul>	\$55.00/hour
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**Note:** May also require utility notification, which is billed at a Staff Engineer's rate, and MOT (project specific requirement/costs).  
This task will be quoted on a project-by-project basis.

E.	Compression Testing of Field Cores (C42)	\$45.00/core
F.	Windsor Probe (minimum of 2 shots) (C803)	\$65.00/shot

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- |    |  |                  |
|----|--|------------------|
| G. | Swiss Hammer (C805) and Pachometer Testing   |                  |
|    | • Senior Engineering Technician  | \$65.00/hour     |
| H. | Compressive Strength of Masonry Prisms (C1314) (3/set)                                       | \$350.00/set     |
| I. | Compressive Strength Testing of Cylinders Delivered to Dunkelberger's Laboratory (ASTM C 39) | \$18.00/cylinder |

**III. ASPHALT TESTING**

- |    |  |               |
|----|--|---------------|
| A. | Quantitative Extraction of Bitumen from Bituminous Paving Mixture (T164)                 | \$190.00/test |
| B. | Stability Tests (Hubbard Field or Marshall) (3 pill set)                                 | \$190.00/test |
| C. | Asphalt Thickness Determination (2" or 4" diameter)                                      |               |
|    | • Field Coring – Sr. technician time, portal-to-portal; usually requires two technicians | \$55.00/hour  |

Note: May also require utility notification, which is billed at a Staff Engineer's rate, and MOT (project specific requirement/costs).  
This task will be quoted on a project-by-project basis.

- |    |  |              |
|----|--|--------------|
| D. | Specific Gravity of Asphalt cores for Density Determination (T166) | \$40.00/core |
|----|--|--------------|

**IV. FIELD EXPLORATION WORK**

- |    |   |              |
|----|---|--------------|
| A. | Soil Investigation and Sampling by Auger Borings<br>See Item "D" below                  | \$10.00/foot |
| B. | Penetration Test and Split-barrel Sampling of Soils (T206)<br>See Item "D" below        |              |
|    | 0' - 50':   | \$13.00/foot |
|    | 50' - 75':  | \$15.00/foot |
|    | 75' - 100':   | \$20.00/foot |
|    | 100' - 200':  | \$25.00/foot |
| C. | Soil Investigation and Sampling by Hollow-Stem Auger Boring (T251) – See Item "D" below |              |
|    | 0'-50':   | \$13.00/foot |





**Indian River County RFQ 2018042 - Geotechnical Annual Services Renewal**  
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D.	Mobilization/demobilization of Truck-Mounted Drill Rig - lump sum cost in addition to footage charges shown above in Items "A" and "C"		\$350.00/event
E.	SFWMD Constant/Falling Head Field Permeability Tests		\$360.00/test
F.	Casing Installation (up to 4" ID)	0' - 50': 50' - 75': 75' - 100':	\$7.00/foot \$9.00/foot \$9.00/foot
G.	Grout Seal Boreholes	0' - 50': 50' - 75': 75' - 100':	\$5.00/foot \$7.00/foot \$7.00/foot
H.	Pressure Cleaning Drilling Tools <ul style="list-style-type: none"><li>• Rig Time</li></ul>		\$160.00/hour
I.	Cone Penetration Sounding	0' - 50': 50' - 200':	\$9.00/foot \$10.00/foot
J.	Rock Coring (HQ Barrel)	0' - 50': 50' - 75': 75' - 100':	\$32.00/foot \$34.00/foot \$36.00/foot
K.	Thin-Walled Tube Samples (Shelby and Fixed Piston)		\$120.00/each
L.	Groundwater Measurement and Sampling		
	1. Shallow Piezometer (less than 12 feet)		\$30.00/lf
	2. Grouted Piezometer (2 inch diameter)		
	0 - 25 ft depths		\$35.00/lf
	25 - 50 ft depths		\$38.00/lf
	50 - 75 ft depths		\$40.00/lf
	75 - 100 ft depths		\$42.00/lf
	3. Groundwater Monitoring Wells (2" diameter)		
	0 - 25 ft depths		\$35.00/lf
	25 - 50 ft depths		\$38.00/lf
	50 - 75 ft depths		\$45.00/lf
	75 - 100 ft depths		\$55.00/lf
	4. Locking Protection Assembly (Riser)		\$310.00/each

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5. Locking Protection Assembly (flush mounted)	\$310.00/each
6. Clear/Develop Wells for Sampling	\$170.00/hour
7. Sampling of Wells/Deliver to Water Quality Laboratory	\$75.00/hour
M. Double-Ring Infiltration Test	\$550.00/test
N. Field Vane Shear Test	\$60.00/test, Plus drilling costs
O. Drill Rig/Crew (2-man) Stand-by	\$180.00/hour

**Note:** This work usually requires utility notification and engineering analysis. MOT may also be needed. This work will be quoted on a project-by-project basis.

**V. EQUIPMENT USE CHARGES**

A. Trip/Vehicle Charge	\$35.00/trip
B. Air Meter	\$25.00/day
C. Coring Equipment	\$180.00/day
D. Steam/Pressure Cleaner	\$150.00/day
E. Swiss Hammer/Winsor Probe/Pachometer	\$35.00/day

**VI. ENGINEERING SERVICES**

A. Technician Inspection Services	
• Engineering Technician	\$55.00/hour
• Senior Engineering Technician/Inspector	\$65.00/hour
B. Certified Building (Concrete/Steel) Inspection Services	\$85.00/hour
C. Clerical/Word Processing	\$55.00/hour
D. Computer Graphics	\$70.00/hour

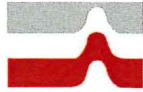
**Indian River County RFQ 2018042 - Geotechnical Annual Services Renewal**  
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E. Environmental Technician	\$75.00/hour
F. Staff Engineer	\$95.00/hour
G. Project Engineer/Manager	\$120.00/hour
H. Senior Engineer (P.E.)/Manager	\$145.00/hour
I. Principal Engineer <i>[Expert Witness, Consultation and Other Specialty Engineering Work]</i>	\$175.00/hour

**Notes:**

1. Hourly rates are portal-to-portal.
2. An overtime factor of 1.5 will be applied to the attached rates for work performed on weekends, holidays, and outside the regular work week (7:30 a.m. to 5:00 p.m. Monday through Friday).
3. These fees do not include costs for maintenance-of-traffic (MOT) and/or utility locations which may be required for certain jobs. These costs will be negotiated on an as-needed, case-by-case basis.
4. The Field Exploratory Work costs are for land-based work using truck-mounted drilling equipment only. Sites requiring all-terrain drilling equipment, clearing, and water-based work will be quoted on a site specific basis.
5. Third party charges and other out-of-pocket expenses will be billed at cost plus 15%.

Submitted By:  Date: September 20, 2018  
David T. Youngstrom  
Office Manager



**EXHIBIT "1"**

**ARDAMAN & ASSOCIATES, INC.  
FEE SCHEDULE  
INDIAN RIVER COUNTY**

**GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING  
AND CONSTRUCTION MATERIALS TESTING SERVICES**

**(Effective 2018 - 2021)**

**COMPACTION TESTS**

In-Place Density Testing (ASTM D-6983 or D-2937, minimum 4 tests/trip) .....	\$22.00/test
Standard (ASTM D-698) or Modified Proctor (ASTM D-1557) .....	\$90.00/test
Limerock Bearing Ratio (minimum 3 points) .....	\$285.00/test

**CONCRETE SAMPLING AND TESTING**

Cylinder samples (up to 4 cylinders per set): molding  
curing, and strength testing (ASTM C-31 and C-39).  
Cylinders shall be left in a place provided by the  
Contractor, covered with plastic caps and attempts  
made to provide shade thereon. If temperature of  
the air is critical to first 24 hours (during field curing),  
equipment to maintain such controls shall be provided  
by others..... \$85.00/set

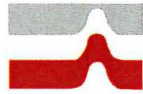
Additional cylinders.....	\$15.00/cylinder
Engineering technician standby time and transporting cylinders from site to office.....	hourly tech rate
Curing and strength testing samples delivered to our laboratory (ASTM C-39) .....	\$15.00/cylinder
Slump tests (ASTM C-143).....	\$15.00/test
Air Entrainment (ASTM C-173) .....	\$30.00/test
Unit weight.....	\$35.00/test
Grout Prisms 3/set (blocks supplied by others).....	\$80.00/set
Marsh Funnel Viscosity.....	\$85.00/test
<u>Swiss Hammer</u>	
Mobilization of equipment .....	\$85.00/trip
Technician time.....	hourly tech rate
<u>Coring and testing of cored samples:</u>	
Engineering technician time (two technicians may be required) .....	hourly tech rate
Mobilization of coring equipment (with power supplied) .....	\$150.00/trip
Mobilization of coring equipment (without power supplied) .....	\$100.00/trip
Trimming, capping and strength test (ASTM C-42) .....	\$45.00/core
Depth Measurement .....	\$15.00/core

**ASPHALT: FIELD INSPECTION, SAMPLING AND LABORATORY TESTING**

Field sampling of asphalt .....	hourly tech rate
<u>Coring:</u>	
Mobilization of coring equipment (with power supplied) .....	\$150.00/trip
Mobilization of coring equipment (without power supplied) .....	\$100.00/trip
Marshall Stability and Flow Test (Includes pill densities) .....	\$105.00/test
Extraction and gradation tests (sampled hot).....	\$135.00/test
Extraction and gradation tests (sampled from pavement) .....	\$165.00/test
Density tests.....	\$25.00/test
Depth measurements .....	\$15.00/test

**CLASSIFICATION TESTS**

Moisture Content (ASTM D-2216) .....	\$15.00/test
Organic Content .....	\$30.00/test
Unit Weight/Classification (Undisturbed Sample) .....	\$48.00/test
Sieve Analysis (ASTM D-421, D-422) .....	\$65.00/test
Percent Fines (ASTM D-1140) .....	\$35.00/test
Hydrometer Analysis (ASTM D-422) .....	\$85.00/test



**EXHIBIT "1"**

**ARDAMAN & ASSOCIATES, INC.  
FEE SCHEDULE  
INDIAN RIVER COUNTY**

**GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING  
AND CONSTRUCTION MATERIALS TESTING SERVICES**

**(Effective 2018 - 2021)**

**CLASSIFICATION TESTS (continued)**

Atterberg Limits (ASTM D-4318)	
Plasticity Index Less than 150% .....	\$105.00/test
Plasticity Index Greater than 150% .....	\$80.00/test

**CONSOLIDATION TESTS**

Incremental Consolidation Test (ASTM D-2435)	
Up to Ten Load-Unload Increments .....	\$460.00/test
More than Ten Load-Unload Increments .....	\$50.00/increment
Constant Rate of Strain Consolidation Test (ASTM D-4186) .....	\$560.00/test

**PERMEABILITY TESTS**

Permeability Test on Sand .....	\$150.00/test
Permeability Test on Fine Grained Soil	
k >10 <sup>-8</sup> cm/sec .....	\$225.00/test
k <10 <sup>-8</sup> cm/sec .....	\$350.00/test
Test Duration Greater than 7 days .....	\$20.00/increment

**STRENGTH TESTS**

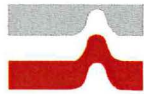
Strength Index Tests (Torvane, Penetrometer, etc.) .....	\$12.00/test
Vane Shear Test .....	\$22.00/test
Unconfined Compression Test (ASTM D-2166)	
Strength Only .....	\$50.00/test
With Stress-Strain Curve .....	\$85.00/test
Triaxial Tests:	
Unconsolidated-Undrained (ASTM D-2850) .....	\$185.00/test
Unconsolidated-Undrained (with pore pressure response) .....	\$420.00/test
Consolidated-Undrained (with pore pressure measurement) .....	\$420.00/test
Consolidated-Drained on Sands .....	\$320.00/test
Consolidated-Drained on Fine Grained Soils .....	\$480.00/test
Direct Shear Tests (Coarse Grained Soils)	
Conventional 2.3" Box Shear .....	\$230.00/test
With Stress Reversals .....	\$340.00/test

**CHEMICAL TESTS**

pH .....	\$15.00/test
Specific Conductance .....	\$12.00/test
Fluoride .....	\$22.00/test
Sulfate .....	\$42.00/test
Chloride .....	\$42.00/test
Soil pH .....	\$25.00/test
Soil Specific Conductance .....	\$42.00/test
Soil Resistivity (ASTM G-57) .....	\$42.00/test
Carbonate Content .....	\$65.00/test
Corrosion Series (pH, sulfate, chloride and resistivity) .....	\$155.00/test

**CHEMICAL LABORATORY SUBCONSULTANT SERVICES**

Laboratory Analytical Testing .....	Cost + 15%
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**EXHIBIT "1"**

**ARDAMAN & ASSOCIATES, INC.  
FEE SCHEDULE  
INDIAN RIVER COUNTY**

**GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING  
AND CONSTRUCTION MATERIALS TESTING SERVICES**

**(Effective 2018 - 2021)**

**DRILL RIG MOBILIZATION AND DEMOBILIZATION**

Men and Equipment.....	\$350.00/trip
Portable Barge.....	\$5,500.00 Minimum/trip

**STANDARD DRILLING**

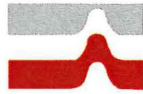
Auger Borings (4-inch) .....	\$10.00/foot
Wash Borings - Cuttings Only (up to 3 inch) Soil drilling.....	\$9.00/foot
Rock drilling .....	\$15.00/foot
Standard Penetration Test (SPT) Borings (ASTM D-1586) in soil (N-values <50):	
from surface to 25 feet.....	\$14.50/foot
from 25 feet to 50 feet.....	\$15.50/foot
from 50 feet to 100 feet.....	\$16.50/foot
from 100 feet to 125 feet.....	\$20.00/foot
from 125 feet to 150 feet.....	\$25.00/foot
Standard Penetration Test (SPT) Borings in high resistance soil/rock (N-values >50, in addition to SPT drilling rate) .....	\$5.50/foot
Furnish, Install, and Remove Casing (up to 4-inch):	
from surface to 50 feet.....	\$10.50/hour
from 50 feet to 100 feet.....	\$12.50/hour
from 100 feet to 150 feet.....	\$15.50/hour
Drilling (Time Basis)/2 man-crew.....	\$250.00/hour
Drilling (Time Basis)/3 man-crew.....	\$350.00/hour
Support Water Truck (Time Basis) .....	\$250.00/day
Rock Coring (N or H size)	
from surface to 50 feet.....	\$30.00/foot
from 50 feet to 100 feet.....	\$35.00/foot
from 100 feet to 150 feet.....	\$40.00/foot
Field Permeability.....	\$350.00/test
Double Ring Infiltrometer Test (ASTM D-3385-75) .....	\$500.00/test

**DRILL RIG SAMPLING**

Additional SPT Sampling:	
from 10 feet to 25 feet.....	\$23.00/sample
from 26 feet to 50 feet.....	\$26.00/sample
from 51 feet to 100 feet.....	\$29.00/sample
from 101 feet to 125 feet.....	\$34.00/sample
from 126 feet to 150 feet.....	\$39.00/sample
Undisturbed Samples:	
Shelby Tube .....	\$225.00/sample
Fixed-Piston Shelby, Osterberg, Pitcher .....	\$350.00/sample

**DRILL RIG SOUNDINGS**

Piezophone Soundings.....	\$13.50/foot
Muck Probing/Clay Sampling .....	hourly tech rate
Cone/Piezoprobe Soundings (Time Basis).....	\$250.00/hour
Piezoprobe Dissipation Monitoring .....	\$250.00/hour



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**GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING  
AND CONSTRUCTION MATERIALS TESTING SERVICES**

**(Effective 2018 - 2021)**

**SPECIAL DRILLING/SOUNDING**

Prices for special drilling (barge drilling; air boat sampling; amphibious drilling; NQ wire line coring; large diameter borings; drilling in corrosive, contaminated or hazardous materials; drilling at great depths; installing large diameter temporary casing; etc.) field vane testing, and other specialized sampling or field tests will be determined per project.

**OTHER DRILL RIG CHARGES**

Clearing Difficult Access, Hole Location and Set-Up .....	\$250.00/hour
Standby Time (drillers) .....	\$250.00/hour
Piezometer and Well Installation (plus materials) .....	\$250.00/hour
Bore Hole Grouting and Sealing (plus materials).....	\$250.00/hour
Materials.....	Cost + 15%
Barge Borings .....	Normal drilling rates times 1.5
ATV Borings .....	Normal drilling rates times 1.5

**INSTRUMENTATION**

Prices for installation of monitor wells, inclinometers and settlement devices and prices for performing field permeability and packer tests will be determined per project.

**GENERAL FIELD EQUIPMENT:**

Generator .....	\$100.00/day
Steam Cleaner.....	\$100.00/day
Surveying Equipment (Water Table Elevations) .....	\$65.00/day
Peristaltic Purging Pump .....	\$50.00/day
pH/Conductivity Meter .....	\$35.00/day
Turbidity Meter.....	\$55.00/day
Water Level Indicator.....	\$25.00/day

**EXPENDABLE SUPPLIES:**

High Capacity (0.45 micron) Filter .....	\$25.00/each
Disposable Teflon Bailer.....	\$20.00/each
Disposable Polyethylene Bailer .....	\$15.00/each
Isopropyl Alcohol (decontamination).....	\$15.00/gallon
Deionized Water (decontamination).....	\$5.00/gallon
16 oz. Soil Jars (soil headspace analysis) .....	\$15.00/box
Tygon Tubing .....	\$3.50/foot
Polyethylene Tubing .....	\$.85/foot
55-gallon Drum .....	\$75.00/drum

**HEAVY EQUIPMENT:**

Vacuum Truck, Dump Truck, Crane, Excavator, Trackhoe, Backhoe, etc.....	Cost + 15%
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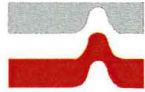
**ENVIRONMENTAL SITE ASSESSMENTS**

Phase I Environmental Site Assessments

Tracts 50 acres or less (contiguous properties or per individual tract) .....	\$2,000.00 Minimum
Tracts between 51 and 500 acres (contiguous properties) .....	\$2,300.00 Minimum
Tracts greater than 500 acres.....	varies by project

Phase II Environmental Site Assessments .....

Analytical Laboratory testing for hazardous or petroleum contamination  
(soil, sediment and groundwater).....cost + 15%



**EXHIBIT "1"**

**ARDAMAN & ASSOCIATES, INC.  
FEE SCHEDULE  
INDIAN RIVER COUNTY**

**GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING  
AND CONSTRUCTION MATERIALS TESTING SERVICES**

**(Effective 2018 - 2021)**

**REMIEDIATION EQUIPMENT:**

Cost is based on type of equipment and duration of project. Cost to be determined on project by project basis.

**MONITORING WELL INSTALLATION**

Temporary 2-inch PVC Wellpoint (Piezometer) .....	\$18.00/foot
2-inch PVC .....	\$35.00/foot

**VAULT/PAD INTALLATION – MONITORING WELLS**

<u>Well Size</u>	
2-inch PVC .....	\$275.00/well
4-inch PVC .....	\$380.00/well
Above ground riser w/pad .....	\$275.00/well

**DIRECT PUSH GROUNDWATER SAMPLING**

Direct Push Sampler (minimum 1 day) .....	\$1,500.00/day
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**ENGINEERING (HOURLY RATES)**

Data Evaluation, Engineering Analysis, Design, Inspections, Field Monitoring, etc.

Principal Engineer .....	\$140.00/hour
Senior Project Engineer (P.E. / Branch Manager) .....	\$115.00/hour
Project Engineer .....	\$95.00/hour
Staff Engineer .....	\$85.00/hour

**CONSTRUCTION MONITORING AND FIELD TESTING (HOURLY RATES)**

Senior Field Technician .....	\$55.00/hour
Field Technician .....	\$50.00/hour
Senior Asphalt Plant Inspector .....	\$95.00/hour
Certified Weld Inspector .....	\$125.00/hour
Senior Steel Inspector .....	\$145.00/hour

**SUPPORT PERSONNEL (HOURLY RATES)**

Senior Technical Draftsman .....	\$55.00/hour
Technical Draftsman I .....	\$50.00/hour
Technical Secretary .....	\$50.00/hour

**OVERTIME AND HOLIDAY**

Charges will be increased 50% for work performed during weekends and official holidays.

**SUB-CONTRACTING SERVICES**

Cost Plus 15%

Please call if you have any questions or require additional information.

Sincerely,

**ARDAMAN & ASSOCIATES, INC.**

Dan J. Zrallack, P.E.  
Branch Manager



## EXHIBIT 1

### RFQ for Continuing Geotechnical Engineering Services – RFQ No. 2018042

#### Hourly Fee Schedule

Effective 2018 - 2021

DESCRIPTION	UNIT COST	UNIT
Professional Engineer	\$125.00	Hour
Principal Professional Engineer	\$150.00	Hour
Engineering field technician (boring layout, utility clearance, earthwork/pad/pile monitoring)	\$65.00	Hour
Special inspection of structural components by a State certified inspector, including structural steel and weld inspections (2 hour minimum/trip)	\$80.00	Hour
Clerical/administration	\$50.00	Hour



# GFA International, Inc.

## Florida's Leading Engineering Source

Environmental ★ Geotechnical ★ Construction Materials Testing ★ Inspections ★ Code Compliance ★ Environmental Health & Safety

**PORT ST. LUCIE**  
 607 NW Commodity Cove  
 Port St. Lucie, Florida 34986  
 Phone: (772) 924-3575 Fax: (772) 924-3580

teamgfa.com

### EXHIBIT I

#### SCHEDULE OF FEES AND SERVICES

#### Geotechnical Engineering and Construction Materials Testing Effective 2018-2021

#### ***SOIL TESTING – FIELD***

Field Density Tests - minimum of four per trip (Nuclear Method – ASTM - D-6938) .....	\$25.00/test
Engineering Technician Time	
Travel time outside local area – portal to portal .....	N/A
Penetrometer Tests .....	\$60.00/hr.
Standby Time .....	\$60.00/hr.
Inspection and Monitoring Fill Placement .....	\$60.00/hr.
Monitoring Muck Excavation & Backfill .....	\$60.00/hr.

#### ***SOIL TESTING – LABORATORY***

Modified Proctor – ASTM D-1557 .....	\$90.00/ea.
Standard Proctor – ASTM D-698 .....	\$90.00/ea.
ASHTO T180 .....	\$90.00/ea.
ASHTO T99 .....	\$90.00/ea.
Florida Bearing Value (FBV) – FM-5-517 .....	\$60.00/ea.
Limerock Bearing Ratio (LBR) – FM-5-515 .....	\$300.00/ea.
Proctor/LBR/FBV Sample Pickup (If Not Scheduled With Other Work) .....	\$60.00/hr
Moisture Content – ASTM D-2216 .....	\$25.00/ea.
Organic Content – ASTM D-2974 .....	\$40.00/ea.
Carbonate Content – FM-5-514 .....	\$65.00/ea.
FDOT Corrosivity .....	\$175.00/ea.
Soil Particle Size Analysis (ASTM D-422)	
Dry Sieve Analysis – 1 inch to No. 200 .....	\$65.00/ea.
Washed Sieve Analysis – 1 inch to No. 200 .....	\$95.00/ea.
Washed Sieve Analysis – No. 200 only .....	\$50.00/ea.
Hydrometer Analysis – Passing No. 200 .....	\$165.00/ea.
Road Base Particle Size Analysis	
Sample Preparation .....	\$35.00/ea.
Washed sieve analysis .....	\$95.00/ea.
Laboratory Permeability Testing of Soil (ASTM D-2434)	
Constant Head or Falling Head .....	\$175.00/test
Specific Gravity of Rock/Cores (ASTM D-854) .....	\$125.00/test
L.A. Abrasion of Rock/Aggregate (ASTM C535) .....	\$275.00/test

Continuing Geotechnical Services

**CONCRETE SAMPLING AND TESTING**

Compressive Strength Samples of normal weight concrete (ASTM C-31).....	\$125.00/set
Includes: sampling (ASTM C-172), Slump (ASTM C-143) Temperature (ASTM C-1064), Molding (ASTM C-31) Curing & Testing (ASTM C-39) for 1 Set of Four Test Cylinders	
Additional cylinders (more than 4 per set).....	\$15.00/cyl.
Additional slump tests (more than 1 per set).....	\$10.00/ea.
Compressive strength of CMU grout Samples (ASTM C-1019):.....	\$85.00/set
Includes, Slump if requested, Temperature and Molding 1 Set of Four Grout Prisms	
Technician Standby time due to construction delays in excess of 1.0 hour per set of cylinders/prisms .....	\$60.00/hr.
Sample pick-up if not scheduled with other work.....	\$60.00/hr.
Curing and strength testing of concrete samples F.O.B.our laboratory (ASTM C-39):.....	\$15.00/cyl.
Continuous monitoring of concrete placement .....	\$60.00/hr.
Air Content by Volumetric Method (ASTM C-173).....	\$35.00/test
Air Content by Pressure Method (ASTM C-231).....	\$45.00/test
Unit Weight and Yield (ASTM C-138).....	\$45.00/ea.
Fineness Modulus .....	\$55.00/ea.
Concrete blocks (ASTM C-140)	
Strength tests (gross area basis).....	\$45.00/block
Strength tests (net area basis).....	\$75.00/block
Absorption .....	\$30.00/block
Masonry Mortar – 2" x 2" cubes molded at site (3 per set).....	\$90.00/set

**SAMPLING AND TESTING OF IN-PLACE CONCRETE**

Core samples	
Mobilization .....	\$100.00/day
Technician time (2 man crew) .....	\$120.00/man-hr.
Core machine .....	\$150.00/day
Generator (if required) .....	\$50.00/day
Diamond bit wear - per inch diameter per inch length .....	\$0.35/in/in
Sample preparation (Measuring, Trimming & Capping).....	\$ 35.00/core
Compressive Strength tests.....	\$15.00/core
Swiss Hammer:	
Equipment Fee .....	\$50.00/day
Senior Technician time.....	\$60.00/hr.

Windsor probe:

Equipment Fee .....	\$135.00/day
Charges per set of 3 shots .....	\$75.00/set
Staff Engineer/ Senior Technician Field time .....	\$80.00/hr.

***ASPHALT FIELD INSPECTION, SAMPLING AND LABORATORY TESTING***

Pavement Cores for thickness verification, base thickness & subbase description

Mobilization .....	\$100.00/day
Core Machine .....	\$150.00/day
Generator .....	\$50.00/day
Technician time (2 man crew) .....	\$60.00/man-hr.
Diamond bit wear - per inch diameter per inch of depth .....	\$0.35/in/in
Flag men and barricades if needed for safety and M.O. T.....	\$60.00/hr./man

Roadway Senior Field Technician .....	\$80.00/hour
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Laboratory Testing Services

Unit weight of cores.....	\$35.00/core
Marshall Stability & Flow.....	\$200.00/test
Extraction and gradation tests.....	\$200.00/test

***STRUCTURAL STEEL***

Bolted connections

Project Engineer .....	\$105.00/hr.
Sr. Engineering Technician.....	\$65.00/hr.
Licensed Building Inspector .....	\$80.00/hr.

Field inspection of steel reinforcement placement

Principal Engineer (P.E.).....	\$175.00/hr.
Senior Project Engineer (P.E.) .....	\$150.00/hr.
Project Manager.....	\$125.00/hr.
Project Engineer (P.E.).....	\$110.00/hr.
Staff Engineer .....	\$80.00/hr.
Senior Roadway Field Technician.....	\$80.00/hr.
Senior Engineering Technician .....	\$65.00/hr.
Engineering Technician.....	\$60.00/hr.
Licensed Building Inspector .....	\$80.00/hr.

**• SUBSURFACE EXPLORATION SERVICES •**

Mobilization & demobilization of drilling crew and equipment..... \$300.00  
 Layout of boring locations, and coordination of underground utility locating ..... \$80.00/hr

Standard Penetration Test (SPT) borings  
(ASTM D-1586) in soil (N-values less than 50):

From surface to depths of 25 feet..... \$14.00/foot  
 From 26 to 50 feet..... \$15.00/foot  
 From 51 to 75 feet..... \$16.00/foot  
 From 76 to 100 feet..... \$19.00/foot

Additional charge for SPT in high resistance  
 soil/rock (N-values greater than 50)..... \$5.00/foot

Continuous SPT testing and sampling..... \$22.00/sample

Other subsurface sampling and testing methods:

Auger borings (ASTM D-1452)..... \$10.00/foot  
 Muck probings..... \$500.00/technician/day

Wash borings(cutting only):

Soil \$10.00/foot  
 Rock \$12.00/foot

Undisturbed sampling:

Shelby tube..... \$175.00/sample  
 Fixed piston ..... \$135.00/sample  
 Dutch Cone Soundings..... \$13.00/Foot  
 Piezocone Soundings..... \$13.00/ Foot

Other Charges:

Standby time (per crew hour)..... \$125.00/hour  
 Borehole grouting and sealing..... \$125.00/hour plus materials

Furnish, install and remove casing..... \$10.00/foot  
 Lodging and per diem (crew-man/day)..... N/A  
 Materials ..... cost + 15%

Special Drilling:

Barge drilling  
 Mobilization of spud barge (lump sum) ..... \$10,000.00  
 Barge Rental..... \$2,000.00/day  
 From surface to depths of 25 feet..... \$45.00/Foot  
 From 26 to 50 feet..... \$60.00/Foot

Groundwater Sampling:

Installation of piezometers and observation wells; 2" Diam PVC (0 to 50 feet).....	\$35.00/Foot
Permanent Groundwater Monitoring Wells of polluted soil and groundwater (2" Diam PVC)	
- From surface to depths. Of 50 feet .....	\$50.00/Foot
- Protective well covers, pads and manholes.....	\$250.00/Well

Subsurface Permeability Tests:

SFWMD Exfiltration test .....	\$400.00/test
Borehole Permeability test.....	\$400.00/test
Double Ring Infiltrometer test .....	\$500.00/test

● **ENGINEERING SERVICES** ●

Inspection of construction procedures, data evaluation, engineering analyses, and report preparation

Principal Engineer (P.E.).....	\$175.00/hr.
Senior Project Engineer (P.E.).....	\$150.00/hr.
Project Manager .....	\$125.00/hr.
Project Engineer (P.E.) .....	\$110.00/hr.
Senior Roadway Field Technician .....	\$80.00/hr.
Engineering Technician .....	\$59.00/hr.
Administrative Personnel (Cadd/Admin Assistant).....	\$50.00/hr.

**Hourly Rate is to include all reimbursable expenses, including travel, meals, copies, deliverables and so forth. Hourly rate is to be calculated as time on the job only, no travel time shall be included or paid. Overtime is 1.5 times the hourly rates provided**



# UNIVERSAL ENGINEERING SCIENCES

Consultants In: Geotechnical Engineering • Environmental Sciences  
Geophysical Services • Construction Materials Testing • Threshold Inspection  
Building Inspection • Plan Review • Building Code Administration

**Fee Schedule**  
**Indian River County**  
**Geotechnical, Inspections and Materials Testing Services**  
**Universal Engineering Sciences, Inc.**  
**Effective 2018 - 2021**

Professional & Technical Services	
Special (Threshold) Engineer	\$125.00 per hour
Principal Engineer/ Scientist	\$150.00 per hour
Registered Senior Engineer/Scientist	\$105.00 per hour
Senior Project Engineer/Scientist	\$90.00 per hour
Project Engineer/Scientist	\$85.00 per hour
Staff Engineer/Scientist	\$70.00 per hour
Threshold Inspector's Agent	\$65.00 per hour
Environmental Technician	\$65.00 per hour
Senior Engineering Technician	\$55.00 per hour
Engineering Technician	\$45.00 per hour
Draftsman/CAD	\$55.00 per hour
Technical Secretary	\$45.00 per hour
Certified Weld Inspector	\$70.00 per hour
NDT Technician	\$90.00 per hour

Drilling Services	
Mobilization/Demobilization (lump sum)	\$350.00
Standard Penetration Test Boring (per foot 0-50)	\$12.50
Standard Penetration Test Boring (per foot 50-100)	\$13.50
Standard Penetration Test Boring (per foot 100+)	\$15.00
Piezometer (each) requires auger boring or SPT boring	\$25.00
Auger Boring (per foot)	\$10.00
Permanent well (per foot)	\$55.00
Hand Clearing (per hour)	\$100.00
Thin Walled Tube Sampling (each)	\$100.00
South Florida Percolation Test	\$300.00
Double Ring Infiltrometer	\$400.00

Asphalt Testing Services	
Extraction/Gradation Test	\$160.00
Marshall, Stability and Flow	\$90.00
In Place Density Test	\$25.00
Asphalt Cores (6" d or 4" d) (per inch)	\$20.00
Asphalt Core density and thickness (each)	\$20.00
Asphalt Plant Inspector (hour)	\$65.00
Asphalt Field Inspector (hour)	\$65.00
Sample pickup (if no other work is performed on site) (hour)	\$45.00

Concrete Testing Services	
Concrete Compression Test (set of 3 or 4) includes 1 hour max on site time per set, travel, slump, and temperature test (sample pickup not included if special trip is necessary)	\$100.00
Concrete Technician (hour) for standby time, additional testing or monitoring in excess of 1 hour on site	\$45.00
Concrete coring (per inch)	\$20.00
Concrete cylinder compression test (each) In excess of 4 cylinders per set	\$12.00
Concrete core compression test (each)	\$18.00
Floor Flatness Test with F-Meter (each)	\$400.00
Coarse Aggregate Sieve test (each)	\$60.00
Fine Aggregate Sieve test (each)	\$50.00
Specific Gravity and Absorption test (each)	\$50.00
Sample pickup (if no other work is performed on site) (hour)	\$45.00
CTQP Level I Concrete Inspector (hour)	\$50.00
CTQP Level II Concrete Inspector (hour)	\$65.00
Inspector (hour) For Reinforcing steel inspection	\$65.00
Slab Moisture Emission Test Kit (each)	\$25.00





Soil Testing Services	
Standard or Modified Proctor Test (each)	\$100.00
Limerock Bearing Ratio (LBR) Test (each)	\$250.00
Atterberg Limits (each)	\$45.00
Wash 200 Sieve analysis (each)	\$35.00
Full Soil Sieve with Wash (each)	\$50.00
Florida Bearing Ratio (FBV) (each)	\$65.00
Carbonates test (each)	\$100.00
Organic Content test (each)	\$35.00
pH test (each)*	\$35.00
Triaxial Permeability Test (each)	\$450.00
Falling/Constant Head Permeability Test with wash 200 sieve (each)	\$180.00
LA Abrasion Test (each)*	\$275.00
CTQP Earthwork I/II Inspector (hour)	\$50.00
Senior Engineering Technician (hour)	\$55.00
Sample pickup (if no other work is performed on site) (hour)	\$45.00
In-Place Density test (each)	\$25
FDR Asphalt Emulsion Mix Design (wet and dry)	\$400
Soil Cement Mix Design	

Miscellaneous Services	
Subcontractor Services	Cost plus 15%
Asbestos Survey for Single Family Residence	\$1200
Phase 1 ESA for Single Family Residence	\$1700
Lead Paint XRF Survey for Single Family Residence	\$1000




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Richard E. Hoaglin, P.E.  
 Universal Engineering Sciences, Inc.  
 Regional Manager





**INDIAN RIVER COUNTY  
SCHEDULE OF FEES & SERVICES  
"Effective 2018 – 2021"**

**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).....	\$30.00/test
2. Proctors .....	\$100.00/test
3. Florida Bearing Value Test.....	\$45.00/test
4. Limerock Bearing Ratio Test.....	\$300.00/test
5. Atterberg Limit Test.....	\$80.00/test
6. Carbonate Content Test.....	\$100.00/test
7. Organic Content Test.....	\$50.00/test
8. Corrosion Series .....	\$190.00/test
9. Soil Observation (On Site) .....	\$60.00/hr.
10. Natural Sample Moisture Content.....	\$20.00/test
11. Unit Weight and Moisture Content (Undisturbed Sample).....	\$50.00/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.....	\$150.00/set
2. Additional Concrete cylinders.....	\$18.00/cyl.
3. Concrete Compression test only [delivered to lab].....	\$18.00/cyl.
4. Slump test.....	\$18.00/ea.
5. Air Content Test.....	\$25.00/ea.
6. Stand-by.....	\$65.00/hr.
7. Grout Prism (Six [6] per set) - Includes preparation of Prism on site.....	\$80.00/set
8. 2" x 2" Mortar Cubes (Six [6] per set) - Includes preparation of Cubes on site.....	\$80.00/set
9. Additional Mortar cubes.....	\$18.00/ea.
10. Masonry Units	
A. Compressive Strength.....	\$80.00/unit
B. Absorption.....	\$50.00/unit
11. Concrete Cores (Min. 3); - Secure, trim & test .....	\$80.00/core
- Testing of core [delivered to lab (Incl. Trim)].....	\$50.00/core
12. Swiss Hammer Testing.....	\$65.00/hr.
13. Windsor Probe Test (Min. 3 shots).....	\$150.00/test
14. Additional Windsor Probe Tests.....	\$100.00/test

**III. AGGREGATE TESTING**

1. Grain size determination:	
A. Full grain size (8 sieves).....	\$75.00/test
B. Wash through (#200).....	\$45.00/test
2. Sieve Analysis – Course Aggregate.....	\$45.00/test
3. Specific Gravity & Absorption of Fine or Coarse Aggregate.....	\$70.00/test

