

Office of Superintendent of Schools
Board Meeting of October 20, 1999

October 5, 1999

Facilities Planning and Construction
Paul J. Phillips, Chief Facilities Officer

SUBJECT: COMMISSIONING OF LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC., AS MATERIALS TESTING LABORATORY TO PERFORM GEOTECHNICAL/CONSTRUCTION MATERIALS TESTING AND CONSULTING SERVICES

Staff has recently completed the selection process for materials testing laboratories to perform geotechnical/construction materials testing and consulting services.

Nine (9) firms applied and nine (9) firms were interviewed by the A/E Service Committee. Of these nine (9) firms, four (4) firms were selected as follows:

Law Engineering and Environmental Services, Inc.
ATC Associates, Inc.
Professional Service Industries, Inc.
Wingerter Laboratories, Inc.

Negotiations with Law Engineering and Environmental Services, Inc., have been successfully completed.

The negotiated fees will be paid on a unit price basis for various geotechnical/construction materials testing and consulting services required during the period commencing October 20, 1999 through October 19, 2001. The negotiated unit price fees agreed upon are attached as per Fee Schedule "A".

Law Engineering and Environmental Services, Inc., is an employee-owned firm. The Chief Executive Officer is Bruce Cole.

RECOMMENDED: That The School Board of Miami-Dade County, Florida, commission the firm of Law Engineering and Environmental Services, Inc., to perform geotechnical/construction materials testing and consulting services for a term of two (2) years, commencing October 20, 1999 through October 19, 2001, based on the negotiated unit price as included in Fee Schedule "A".

IMR:nf
Attachment

ITEM No.	LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FEE SCHEDULE "A"	FEE
1.0	Project Engineer, per hour	\$65.00
2.0	Registered Professional Engineer, per hour	\$75.00
3.0	Certified Radon Specialist, per hour	\$65.00
4.0	Principal Engineer, P.E., per hour	\$82.50
5.0	Drafting/Clerical Services, per hour	\$30.00
6.0	Engineering Technician: (minimum 1 year of experience) Regular Time, per hour Overtime, per hour	\$28.00 \$39.00
7.0	A.C.I. Certified Technician: (minimum 3 years of experience) Regular Time, per hour Overtime, per hour	\$30.00 \$43.00
8.0	Senior Engineering Technician, 2 hours minimum (minimum 5 years of experience) Regular time, per hour Overtime, per hour	\$35.00 \$45.00
9.0	Senior Engineering Technician to perform threshold inspection and/or inspection services, such as (2 hours minimum): Concrete Batch Plan Inspection Asphalt Batch Plan Inspection Bolting Inspection (includes equipment) Galvanizing Inspection (does not include testing) Deck Mechanical Attachment Inspection Fire Proofing Inspection Visual Welding Inspection Regular time, per hour Overtime, per hour	\$35.00 \$45.00
10.0	Certified Radon Technician Regular time, per hour Overtime, per hour	\$32.00 \$45.00
11.0	Inspection to Verify Specified Paints NDE Inspector regular time, per hour NDE Inspector overtime, per hour	\$32.00 \$45.00
12.0	Senior Engineering Technician to perform Paint Thickness Verification (including necessary equipment) 12.1 Wet Film Thickness Measurements, regular time, per hour 12.2 Wet Film Thickness Measurements, overtime, per hour	\$35.00 \$45.00

ITEM No.	LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FEE SCHEDULE "A"	FEE
13.0	Inspector to perform Roofing Installation Inspection and to verify Specified Roofing Materials Regular time, per hour Overtime, per hour	\$35.00 \$45.00
14.0	Engineering Technician to perform Took Gage Measurements Regular time, per hour Overtime, per hour	\$35.00 \$45.00
15.0	Soil test Borings with Conventional truck equipment, (ASTM D-1586): 15.1 0 to 50 foot depth, per lineal foot (minimum 50 ft boring per trip) 15.2 50 to 100 foot depth, per lineal foot	\$10.00 \$10.50
16.0	Auger Boring, per lineal foot	\$6.50
17.0	Undisturbed samples of soft soils obtained in connection with soil test borings (ASTM D-1587), each sample	\$62.00
18.0	Extra Standard Penetration Test Sample, per sample	\$15.00
19.0	Rock Coring, NX size, 0 to 50 foot depths, per lineal foot Rock Coring, 4 inch diameter 19.1 0 to 50, per linear foot 19.2 50 to 100, per linear foot	\$18.00 \$24.00 \$32.00
20.0	Settings 3-inch Diameter casing (NW) when required, to stabilize hole when drilling through soft soils or rock formations, per foot	\$4.50
21.0	Setting 6-inch Diameter casing (SW) per linear foot Tripod mounted boring (0-20 feet) per hour (includes personnel)	\$6.00 \$95.00
22.0	Percolation test per South Florida Water Management District (S.F.W.M.D.), per test (minimum 3 tests per trip)	\$250.00
23.0	Double Ring Infiltration Test, per test (minimum 2 tests per trip)	\$300.00
24.0	Concrete cores (sampling) 24.1 One sample 24.2 Two or more, per sample	\$102.00 \$68.00
25.0	Drilled concrete cores, curing and compression testing only, each	\$18.00
26.0	Extra Slump Test, each	\$10.00
27.0	Technician to job site to sample fresh concrete (including light weight), make slump test, mold minimum set of 5 concrete cylinders, cure, tests and report, including reserves as follows: 27.1 One set per trip, per cylinder 27.2 Two sets per trip, per cylinder 27.3 Three or more sets per trip, per cylinder	\$12.00 \$12.00 \$11.00

ITEM No.	LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FEE SCHEDULE "A"	FEE
28.0	Mortar Sampling and Strength Testing Production and Strength Testing Mortar Cubes (ASTM C-780), per cube	\$15.00
29.0	Stucco Sampling and Strength Testing Production and Strength Testing Mortar Cubes, per cube	\$10.50
30.0	Stucco Alkalinity Prior to Painting Sampling and Testing of Stucco, per sample	\$40.00
31.0	Natural Moisture Content, soil samples (ASTM D-2216), each	\$12.00
32.0	Grain Size Determination 32.1 Percent Passing No.2000 Sieve by washing, each 32.2 Wash No.200 Sieve (ASTM D-1140), each	\$22.50 \$31.00
33.0	Determination of Organic Content, each	\$31.00
34.0	CBR or LBR: Including laboratory compaction test (ASTM D-183) or AASHTO T-193, or Florida D.O.T.), each	\$250.00
35.0	Laboratory Compaction Test (ASTM D-1557 or AASHTO T-180): 35.1 ASTM D-698 or AASHTO T-99, per test 35.2 ASTM D-1557 or AASHTO T-180, per test	\$75.00 \$85.00
36.0	Density Tests: 36.1 In-place density (minimum 3 tests per trip), per test 36.2 Relative density, per test	\$25.00 \$110.00
37.0	Laboratory analysis of soil samples for pH, soluble salts, nitrogen, phosphorous, potassium, calcium, magnesium, iron, manganese, zinc, copper, boron, and sulfur, per sample	\$30.00
38.0	Same as above (37.0) with organic soils and/or turf, per sample	\$39.00
39.0	Same as (37.0) with fertilization or recommendation, per sample	\$29.00
40.0	Nematode analysis, per sample	\$29.00
41.0	Radon Testing services: 41.1 Charcoal canister measurement device, shipping analysis and report, minimum 100 canisters per 6 months period, each 41.2 Alpha-track measurement device, analysis and report, minimum 50 devices per 6 months period, each 41.3 Real time grade sample radon measurement using RD 200 soil gas unit manufactured by EDA Instruments or equivalent (18 sample minimum per site, price to include all charges associated with providing a test report, except mileage), per sample	\$10.00 \$21.00 \$25.00
42.0	Asphalt Thickness Tests Coring and thickness measurements not including patching, per core, 3 cores minimum per trip	\$35.00

ITEM No.	LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. FEE SCHEDULE "A"	FEE
43.0	Vehicular Mileage, for all project-related trips portal to portal from the LABORATORY's Dade County Office, per mile.	\$0.29
44.0	Stand-by time (in excess of 1/2 hour per boring) for reasons other than inclement weather or mechanical breakdown, with written confirmation from Owner 44.1 Backhoe rental, for testing excavations (minimum 5 hours), per hour (actual cost W/N.T.E. fee) 44.2 Trackhoe rental, for testing excavations (minimum 5 hours), per hour (actual W/N.T.E. fee) 44.3 Water truck rental, to perform seepage test trench (minimum 5 hours), per hour (actual cost W/N.T.E. fee)	\$95.00 \$65.00 \$80.00 \$80.00
45.0	Concrete Block Testing ASTM C-90 45.1 Individual Blocks, per block 45.2 Prism, per test	\$25.00 \$120.00
46.0	Wind Up-Lift Field Test - (It includes a project engineer and engineering technician; Does not include Engineering/Report) 46.1 Two to four tests each 46.2 Five to ten tests, each 46.3 Over ten tests	\$300.00 \$250.00 \$215.00
47.0	Sprayed on Fireproofing Adhesion Tests, per test (minimum 15 tests)	\$10.00
48.0	Moisture Content Test on Roof Core Samples, per sample	\$22.00
49.0	Conductivity Meter Rental, per day (actual cost W/N.T.E. fee)	\$25.00
50.0	pH Meter Rental, per day (actual cost W/N.T.E. fee)	\$25.00
51.0	Bailer (Disposable) 51.1 PVC, each 51.2 Teflon, each	\$20.00 \$35.00
52.0	Flame Ionization Detector Rental, per day (actual cost W/N.T.E. fee)	\$100.00
53.0	Turbidity Meter Rental, per day (actual cost W/N.T.E. fee)	\$25.00
54.0	Interface Probe Rental, per day (actual cost W/N.T.E. fee)	\$25.00
55.0	Drums, each	\$50.00
56.0	Prism Testing of Masonry Grout	\$60.00
57.0	Stand by Time (per hour) due to Stand-by between site or contractor not ready for test	\$30.00