



**SCOPE OF SERVICES
FOR
PROFESSIONAL GEOTECHNICAL AND MATERIALS TESTING SERVICES
REQUEST FOR STATEMENT OF QUALIFICATIONS (RSQ) NO. 08-052
EXHIBIT "A"**

December 12, 2007

Pasco County Engineering Services Department
Project Management Division
4454 Grand Boulevard
New Port Richey, Florida 34652-5402

**PROFESSIONAL GEOTECHNICAL AND MATERIALS TESTING SERVICES
REQUEST FOR STATEMENT OF QUALIFICATIONS (RSQ)
Scope of Services
12/12/07**

I. INTRODUCTION

Pasco County (hereinafter referred to as "COUNTY") will receive proposals from firms having specific experience and qualifications in the areas identified in the Request for Statement of Qualifications (RSQ). For consideration, submittals for contract must contain evidence of the firm's experience and capabilities in the specified disciplines directly related to the proposed services. Other information required by the COUNTY may be included elsewhere in the RSQ.

II. GENERAL DESCRIPTION

The RSQ is for the COUNTY to have available professional geotechnical engineering firms (hereinafter referred to as "PROFESSIONAL") engaged in the individual practice of consulting engineering, legally authorized to practice by the Florida State Board of Professional Engineers, under continuing contract, subject to termination or cancellation by either the COUNTY or the PROFESSIONAL, to provide services needed and determined by the COUNTY.

This Scope of Services represents the general type of work that may be required under the Professional Geotechnical and Materials Testing Services Agreement (hereinafter referred to as "Agreement"). These services will be utilized primarily to implement the COUNTY'S Capital Improvement Program (CIP) and Paving Assessment (PVAS) Program. However, such services will be available for other programs and purposes on an "as needed" basis. The Scope of Services will be incorporated into the Agreement with the selected PROFESSIONALS.

III. SPECIFIC DESCRIPTION

Services are generally described as professional geotechnical and materials testing services, for various current or upcoming roadway, drainage and bridge projects. Firm specialties may be supplemented through the use of Subconsultants if identified as part of the proposal. Offerors shall take notice that the successful PROFESSIONAL(S) is/are not guaranteed projects under this proposal. Individual task orders or purchase orders will be issued, based on the Agreement between the COUNTY and the PROFESSIONAL. A detailed Scope of Services will be included with the individual task order or purchase order. The Agreement shall continue for a period of three (3) years from approval by the COUNTY Board of County Commissioners (BCC). Tasks may include, but are not limited to the following:

- A. Soil Exploration,
- B. Geotechnical Classification Laboratory Testing,
- C. Highway Materials Testing,
- D. Foundations Testing and Studies, and
- E. Geotechnical Specialty Laboratory Testing.

These tasks correspond directly to the Florida Department of Transportation (FDOT) work groups 9.1, 9.2, 9.3, 9.4 and 9.5 as described in the Florida Administrative Code Chapter 14-75, and require the same qualifications. Capability for Case Pile Wave Analysis Program (CAPWAP) analysis and Pile Dynamic Monitoring including use, evaluation and analysis of Pile Driving Analyzer (PDA) should be identified.

IV. POSSIBLE TASKS

Following are examples of the types of services that the PROFESSIONAL may be required to provide by task order or purchase order assignment. Such services may include but are not limited to the following:

TYPICAL EQUIPMENT:

- Swiss (Schmidt) rebound hammer
- Windsor Probe
- Pachometer
- Paint Thickness Gauge
- Backhoe
- Concrete Core Drill Machine
- Nuclear Densimeter
- Portable pump and generator
- Pile Load test equipment

TYPICAL TESTING:

- Field density tests by drive cylinder method (ASTM D-2937) or nuclear method (ASTM D-2922), or sand cone method (ASTM D-1556).
- Sampling for laboratory tests, i.e. proctor, soil cement design, LBR, etc.
- Field inspection, testing and recording of construction operations.
- Concrete testing, i.e., slump, cylinders, air content, unit weight, cast cubes, flexural beam strength.
- Concrete batch plant monitoring, concrete coring, Windsor Probe, pachometer, Swiss Hammer, reinforcing steel placement, etc.
- Soil sampling, soil testing, field density testing, documentation of deleterious material, inspection of proofrolling, specified fill placement, footing inspection, field proctor tests, installation of settlement plates, hand auger borings, percolation and infiltration testing, pile load tests field LBR, etc.
- Soil cement monitoring.
- Asphalt Paving – monitoring of paving procedures, control strip monitoring, spread, thickness, temperature, field density testing, coring for thickness, asphalt batch plant monitoring.
- Deep foundation installation monitoring.
- Sieve analysis of aggregates (ASTM C-136).
- Specific Gravity and absorption of fine aggregates (ASTM C-128).
- Sodium Sulfate Soundness (ASTM C-88)
- Asphalt Mix Designs – Marshall Method.
- Asphalt Mix Verifications.
- Extraction and gradation (ASTM D-2172 and C-136)
- Marshall stability and flow (ASTM D-1559)
- Concrete mix design: normal weight concrete, including dry sieve analysis of aggregates, specific gravity of aggregates, unit weight of coarse aggregates, organic impurities test of fine aggregates.
- Compressive strength of concrete cylinders (ASTM C-39)

V. GENERAL PROJECT REQUIREMENTS - Specific task orders may vary or expand upon these General Project Requirements:

- **FORMAT** - Generally, Florida Department of Transportation (FDOT), American Society of Testing Materials (ASTM), or American Association of State Highway and Transportation Officials (AASHTO) geotechnical and material testing requirements shall be utilized, unless an adjustment is required by the COUNTY in order to conform to COUNTY requirements.
- **PERSONNEL** - **PROFESSIONAL** shall utilize Key Personnel presented in the **PROFESSIONAL'S** Proposal. Any use of a Subconsultant(s) shall be subject to the approval of the COUNTY.
- **MEETINGS** - **PROFESSIONAL** shall attend project meetings at reasonable hours and upon reasonable notice provided by the COUNTY.
- **QUALITY CONTROL** - **PROFESSIONAL** shall be responsible for insuring that work products conform to COUNTY standards and criteria and represent the same or higher professional quality than available from other qualified vendors.
- **CORRESPONDENCE** - Copies of all written correspondence between the **PROFESSIONAL** and any other party pertaining specifically to this work shall be provided by the **PROFESSIONAL** to the COUNTY, for their review and records within one (1) week of the receipt of said correspondence.
- **PROJECT SCHEDULE** - Project Schedule shall be provided within ten (10) days after the Notice to Proceed for each Individual task order. The **PROFESSIONAL** shall provide the proposed schedule in Microsoft Project, to include establishment of milepost event dates, and a projected payout curve based on the schedule.

END OF EXHIBIT "A"