

# ATTACHMENT

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## NOTICE TO PROFESSIONAL CONSULTANTS FOR ENGINEERING PLANNING, DESIGN, CONSTRUCTION MANAGEMENT, AND RELATED SERVICES FOR WATER AND WASTEWATER TREATMENT PLANT IMPROVEMENTS WITH GRANT FUNDING

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### NON-EXCLUSIVE PROFESSIONAL SERVICES AGREEMENT

The consultant will perform professional engineering services to Miami-Dade Water and Sewer Department Treatment Plants as follows:

#### Scope of Work:

The Miami-Dade Water and Sewer Department seeks the services of a Consultant for the study, planning, design, permitting, construction management, inspections, and related services of Water and Sewer Treatment Facilities. The Design Consultant shall provide, but not be limited to, Engineering Design, Studies, existing utility location, topographic survey, permits, specifications, addendums, and construction support.

The work is intended for projects that have secured external funding or loans that can be used for consulting fees. There is no guarantee that the Department will obtain the funding and proceed to award the work to the Design Consultant. This Contract will seek to have the Design Consultant in place that can satisfy funding requirements to begin work once the funding is obtained. However, the Department may, at its sole discretion, utilize this contract for non-grant funded projects.

The project will include engineering services at the North District Sewer Treatment Plant, Central District Sewer Treatment Plant, the South District Sewer Treatment Plant, the Hialeah Water Treatment Plant, the John E. Preston Water Treatment Plants, the Alexander Orr Water Treatment Plant, and their appurtenant facilities are possible projects in this agreement.

The Consultant will be expected to provide complete professional engineering services to include plant upgrades, plant expansions projects, facility replacement projects, facility improvement projects and other appurtenant tasks. When the assigned tasks are based on the Federal Grant obtained by the Department, the Design Consultant shall conform all work to the guidelines of the program.

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Projects to construct or upgrade Water and Sewer Treatment Plants will require the Design Consultant to perform Engineering Design on all phases of the treatment plant process. The improvements may include, but are not limited to, renewal and replacement projects for the plant's existing facilities; performing preliminary site investigations; surveying; hydraulic modeling and analysis; process modeling and analysis; coordinating with other utilities; preparing design reports; evaluation of existing equipment condition, capacity and useful life expectancy; design services for selected plant upgrades and/or renovations; preparation of drawings, and contract specifications for structural, mechanical and electrical projects; permitting to include obtaining dry-run permits and participation in obtaining final environmental and building permits; coordination with Department forces; Construction Management Services to provide technical support during construction to include review of shop drawings, processing payment requisitions, responding to information requests, review of claims and potential change orders, review of contract schedules and schedule of values, and review of as-built drawings.

Additional tasks are anticipated to include:

- a. Evaluation and formulation of plans for improving or optimizing the treatment processes including designing and conducting pilot studies.
- b. Conducting studies and providing recommendations related to improving plant operations and efficiency including safety, staffing, energy conservation, security, biosolids management, corrosion control and asset management issues. This includes site-specific staff training, preparation of operation and maintenance manuals and operational practices manuals.
- c. Provide services for evaluation of regulatory requirements including preparation of compliance documents and reports.
- d. Provide technical support and assistance for computer system data integration with the programs and systems currently utilized. Provide assistance in selecting and procuring software and hardware enhancements.

### Experience and Qualifications

A Prime Consultant submitting a proposal shall have experience in all phases of water and wastewater engineering, including design, permitting, construction, and operation and maintenance of large regional water and sewer treatment plants. The Prime Consultant shall also have experience with condition assessments, and with incorporating operational knowledge into treatment plant design. The successful experience on the above items should be demonstrated prior to the date of this solicitation. The Prime Consultant shall provide a list of members of the proposed design team, identifying the overall design manager(s), and the team leaders for key design specialties.

The Prime Consultant shall provide at least one (1) successfully designed, constructed and operating new or major retrofit of a lime softening water treatment plant and one (1) successfully designed, constructed and operating new or major retrofit of a pure oxygen wastewater treatment plant prior to the date of the solicitation. The Prime Consultant shall provide a list of members of the proposed Design Team, identifying the overall Design

Manager(s), and the team leaders for key design specialties (sewer treatment, water treatment, civil, structural, mechanical, electrical and instrumentation) and the specific role each one of them will perform.

For projects which the Prime Consultant has served as the design consultant, the Prime Consultant shall provide the name and contact information for a Utility Executive with the Utility they served as the design consultant who can confirm their role. The descriptions shall include the client (i.e., municipality or agency), key project staff, the project name, a summary of the work performed, the contract amount, the schedule (to include start and completion dates), the specific role of the Prime Consultant, the achievements (e.g., projects delivered on schedule, dollars saved, innovative designs implemented, new technology utilized) and a client reference and contact information.

The Subconsultants shall provide a description of at least one (1) project(s) that is relevant to this scope of work completed prior to the date of this solicitation specific to their proposed responsibilities. The descriptions shall include the client (i.e., municipality or agency), key project staff, a summary of the work performed, the contract amount, the schedule (to include start and completion dates) the specific role of the Subconsultant firm, the project's achievements and client reference and contact information.

### **A/E TECHNICAL CERTIFICATION REQUIREMENTS Prime**

- 6.03 Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants
- 16.00 General Civil Engineering
- 17.00 Engineering Construction Management

### **Prime and/or Subconsultants**

- 6.01 Water and Sanitary Sewer Systems – Water Distribution and Sanitary Sewage Collection and Transmission
- 6.02 Water and Sanitary Sewer Systems – Major Water and Sanitary Sewage Pumping Facilities
- 9.02 Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services
- 10.09 Environmental Engineering – Wellfield, Ground Water and Surface Water Protection and Management
- 11.00 General Structural Engineering
- 12.00 General Mechanical Engineering
- 13.00 General Electrical Engineering
- 15.01 Surveying and Mapping – Land Surveying

## **ATTACHMENT BREAKDOWN LIST**

WASD intends to retain one (1) qualified firm under one (1) Non-Exclusive Professional Services Agreement (PSA) for this Design and Related Services for the Design of Water and Wastewater Treatment Plant Improvements with Grant Funding. The proposals received for this project will be reviewed and ranked by the Competitive Selection Committee (CSC) members.

The term for this PSA is a five (5) year period. Maximum compensation for this PSA is \$10,000,000, plus contingency in accordance with Ordinance 00-65. No minimum amount of work or compensation will be assured to the retained Consultant. The County reserves the right to re-use the work products of the retained Consultant and to retain other Consultants to provide the same or similar services at its sole discretion.