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**MIAMI-DADE COUNTY, FLORIDA  
REQUEST FOR DESIGN-BUILD SERVICES  
MIAMI-DADE WATER AND SEWER DEPARTMENT  
DESIGN-BUILD SERVICES FOR THE CONSTRUCTION OF A NEW DRINKING WATER  
LABORATORY BUILDING AT THE ALEXANDER ORR, JR. WATER TREATMENT PLANT  
ISD PROJECT NO. DB16-WASD-02**

The County Mayor, Miami-Dade County, pursuant to the Miami-Dade Water and Sewer Department (WASD) Consent Decree and Capital Improvement Programs Acceleration Ordinance Section 2-8.2.12, Chapter 287.055, Sections 2-8.1 and 2-10.4 of the Miami-Dade County Code, Implementing Order 3-34, and Administrative Order 3-39, announces that the Miami-Dade Water and Sewer Department will require one (1) qualified Design-Builder to provide design and construction services for a new drinking water laboratory building at the Alexander Orr, Jr. Water Treatment Plant.

The scope of services shall include, but is not limited to, surveying, geotechnical investigations, engineering, programming, engineering and architectural design, technical specifications, construction drawings and documents, permitting, construction, construction management, coordination, testing and commissioning services of the new Drinking Water Laboratory to replace the existing undersized and deteriorated laboratory. The design and construction services rendered by the Design-Builder shall result in a complete, functional, and operable Drinking Water Laboratory to house a total staff of twenty (20) people and twelve (12) visitors. The new Drinking Water Laboratory facility shall include:

- Parking for thirty-two (32) vehicles, six (6) county cars and three (3) golf carts with canopy-covered and battery-charging stations, landscaping, and amenities, all within the delineated site plan attached;
- Foundations, structural walls, roof, windows, doors, interior and exterior finishes;
- Laboratory spaces with laboratory cabinets, laboratory sinks, installation of the WASD supplied laboratory refrigerators and laboratory equipment;
- Moving and installing equipment from the existing laboratory to the new laboratory;
- Performing relocations of equipment from the existing laboratory, including disconnecting, loading, transporting, coordinating, installing and unloading this equipment in the designated location;
- Miscellaneous utilities coordination for laboratory use, including gases, deionized and demineralized water, regular water, drainage, sanitary sewer, polished water and laboratory water systems;
- Electrical system to include power and lighting, telephone, voice, data and negotiate and coordinate with Florida Power and Light;
- Ventilation special heating, ventilation, general air conditioning needs and separate air conditioning system for laboratory spaces with one hundred percent (100%) outside air including ducting of air removal (no plenum use);
- Construction of offices, storage areas, men and women lavatories, dress/undressing area, locker room area, lunch room and a standard preparation storage area;
- Mechanical air conditioning spaces, electrical and uninterrupted power supply room, phone and computer server rooms, receiving area, foyer entry area, delivery entrance, three (3) administration offices, a secretary's area, a conference room, one (1) microbiology laboratory, a chemical storage area, a dry storage area, a records storage area, a chemical waste space, a

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laboratory water space with delivery and pickup access from the delivery area and one (1) area for laboratory gases with access for delivery and pickup;

- Two (2) mass-spectrometer gas-chromatograph laboratories;
- A standard preparation storage area;
- Three (3) wet chemistry general laboratories to include, one (1) general wet chemistry space, one (1) solution preparation space and one (1) wet chemistry instrumentation space;
- Asphaltic pavement, concrete sidewalks, concrete curbs and gutters, trees, landscaping, sod, pavement markings, traffic and directional signs;
- Designing and constructing a sewage pump station, connection to water and sewer; and
- All other appurtenant and miscellaneous items and work for a complete and fully functional installation of a Drinking Water Laboratory located in the Alexander Orr, Jr. Water Treatment Plant.

The duration for the proposed design-build contract is nine hundred and sixty (960) calendar days, with a contingency period of 10%. The total compensation for the Design-Build Contract is seven million, one hundred and ninety-two thousand, three hundred and six dollars (\$7,192,306) which includes the following:

- \$5,088,669 Estimate Construction Cost
- \$891,996 Estimated Engineering Cost
- \$254,433 Contingency Fees for Construction (5%)
- \$89,200 Contingency Fees for Engineering (10%)
- \$152,660 Permitting Fees (3%)
- \$76,330 Art in Public Places (1.5%)
- \$639,018 Dedicated Allowance (Mark-Ups, Administration)

The firms providing these services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

**A/E TECHNICAL CERTIFICATION REQUIREMENTS**

<b>Technical Category</b>	<b>Engineering Activity Description</b>	<b>Total Percentage</b>	<b>SBE A/E</b>
<b>6.03 Lead A/E</b>	<b>Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants</b>	<b>20.00%</b>	
<b>14.00 Lead A/E</b>	<b>Architecture</b>	<b>20.00%</b>	<b>4.00%</b>
9.01 Other	Soils, Foundations and Materials Testing – Drilling, Subsurface Investigations and Seismographic Services	0.30%	
9.02 Other	Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering Services	0.20%	
9.03 Other	Soils, Foundations and Materials Testing – Concrete and Asphalt Testing Services	0.30%	
9.04 Other	Soils, Foundations and Materials Testing – Non-Destructive Testing and Inspections	0.20%	

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10.02 Other	Environmental Engineering – Environmental Geology Services	0.20%	
10.05 Other	Environmental Engineering – Contamination Assessment and Monitoring	0.20%	
10.06 Other	Environmental Engineering – Remedial Action Plan Design	0.20%	
10.07 Other	Environmental Engineering – Remedial Action Plan Implementation/Operation/Maintenance	0.20%	
11.00 Other	General Structural Engineering	20.00%	4.00%
12.00 Other	General Mechanical Engineering	11.00%	2.20%
13.00 Other	General Electrical Engineering	10.00%	2.20%
15.01 Other	Surveying and Mapping – Land Surveying	1.00%	
15.03 Other	Surveying and Mapping – Underground Utility Location	1.00%	
16.00 Other	General Civil Engineering	6.00%	
17.00 Other	Engineering Construction Management	5.50%	1.38%
18.00 Other	Architectural Construction Management	1.00%	
19.09 Other	Value Analysis and Life-Cycle Costing – Soils, Foundations and Materials Testing		
20.00 Other	Landscape Architecture	0.60%	0.60%
22.00 Other	ADA Title II Consultant	0.60%	0.60%
	TOTAL	100.00%	14.98%

**Minimum Experience and Qualifications**

A. Lead Constructors:

1. The Lead Constructor or its firm members performing the construction of the laboratory must have a minimum of two (2) years total building construction industry experience and preferably have constructed at least one (1) laboratory facility consisting of a minimum of 5,000 total square feet.
2. It is preferred that the Lead Constructor or its firm members performing the construction for the laboratory has experience in the construction of a laboratory within a university, hospital, school, utility or for another similar organization.

B. Lead Designers:

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1. The Lead Designer or its firm members performing the design of the laboratory must have Architecture & Engineering industry experience and it is preferred that the Lead Designer or its firm members would have designed at least one (1) laboratory facility.
2. It is preferred if the Lead Designer or its firm members performing the design for the laboratory has designed a laboratory within a university, hospital, school, utility or for another similar organization.
3. It is preferred that the Lead Designer or its firm members has experience with requirements from the National Environmental Laboratory Accreditation Conference.
4. It is preferred that the Lead Designer or its firm members has a Lead Designer that is a documented Leadership in Energy and Environmental Design (LEED) Green Associate and has LEED AP BD+C certification.

C. Subconsultants:

1. Subconsultants to the Design-Builder or Lead Designer providing services must demonstrate to have designed at least one (1) project(s) that involved the main project element for which the Subconsultant is being proposed.

D. Design-Build Team Key Personnel Experience and Qualifications:

1. Preferred ten (10) years total industry experience of which five (5) years in a similarly responsible position for each of the following Key Personnel:
  - Design-Build Project Manager
  - Lead Designer-Design Manager
  - Lead Constructor-Construction Manager
  - Lead Architect
  - Lead Civil Engineer
  - Lead Mechanical Engineer
  - Lead Electrical Engineer
  - Superintendent
  - Permitting/Compliance Manager
  - Design-Builder Quality Assurance/Quality Control Manager
  - Design-Builder Safety Manager
  - LEED Green Associate/Construction Manager
2. Key Personnel must demonstrate experience with the type of work to be performed.
3. Proposers shall identify in their Statement of Qualifications those State of Florida registered Architects and Professional Engineers who will sign and seal construction plans and specifications.
4. Key Personnel resumes shall indicate the individual's current firm association, their professional qualifications, a client reference with contact information, and their role and duration on each project for which they are being credited the related experience

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E. Additional Preferred Experience and Past Performance:

1. Experience in significant role on a Design-Build project, especially in a similar role as proposed for this Project.
2. Superior references with regard to meeting cost, schedule and quality objectives on previous projects and maintaining a positive client relationship.

F. Design-Builder Safety Record-Past Performance:

Past performance as reflected by a three (3) year average for the last three (3) previous full years of the Experience Modification Rate (EMR) for the Design-Builder shall not exceed 1.10 for each firm.

Design-Builders shall provide EMR data for the previous three (3) full calendar years (2013, 2014 and 2015) on a firm-wide basis documented by a signed letter with contact information from the firm's insurance carrier, or the insurance carrier's agency representative. Higher qualification scores shall be provided by the Competitive Selection Committee (CSC) for a Design-Builder demonstrating an average EMR lower than other competing Design-Builder firms. Design-Builder shall also provide their Occupational Safety and Health Administration (OSHA) forms 300 and 300A for the last three (3) full calendar years (2013, 2014 and 2015) indicating OSHA submitted accident data for evaluation by the CSC as to their frequency and severity.

CONTRACT MEASURES

WASD is recommending a 14.98% SBE-A/E, 26.68% SBE-Construction, 3.08% SBE-G&S

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