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**MIAMI-DADE COUNTY, FLORIDA
REQUEST FOR DESIGN-BUILD SERVICES
MIAMI-DADE WATER AND SEWER DEPARTMENT
DESIGN-BUILD SERVICES FOR REPLACEMENT OF WATER MAINS AND SERVICE
CONVERSIONS IN THE CITY OF NORTH MIAMI BEACH "DONUT HOLE" SERVICE AREA
ISD PROJECT NO. DB15-WASD-01**

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 replacement of water mains and service conversions in the City of North Miami Beach "Donut Hole" service area.

The scope of services shall include, but is not limited to, surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services, customer contact, negotiation and agreement execution for the installation of new 8-inch and 12-inch water mains, new water services and fire hydrants and restoration within private property for the installation of all required piping, fittings and accessories for the water service conversion.

The Project consists of the replacement of the existing undersized and deteriorated water mains and existing main loop closures in order to improve system pressure and provide fire flow protection and for water service conversions (transfer of services from the rear to the front of properties and replacement of certain existing old services in front of properties to meet new standard) in the City of North Miami Beach "Donut Hole" service area of Miami-Dade County, Florida. The Project location is the area bounded by N.W. 187 Street to the north, N.W. 179 Street to the south, N.W. 7 Avenue to the west and N.W. 2 Avenue to the east. The Project includes the following main elements:

Approximately 21,385 linear feet of 8-inch ductile iron water main pipe and fittings; 11,486 linear feet of 12-inch ductile iron water main pipe and fittings; 1,900 linear feet of 6-inch ductile iron water main pipe and fittings to include, but not be limited to the following: all required resilient seated gate valves, all required fire hydrant assemblies with guard posts; approximately 247 dual water services and approximately 14 single water services with approximately 506 water service conversions from rear of property to front of property to include all required piping, fittings and accessories, testing and restoration within private property including providing safety and protection of homeowner's property; tapping connections of various sizes to existing mains including tapping sleeves and valves; in-line water main connections to existing mains of various sizes; air release valve and flushing valve outlet assemblies; polyethylene encasement for ductile iron pipe and fittings, if ordered by the engineer; sheeting and shoring ordered, left in place by the engineer; additional suitable backfill, if needed; furnish all materials, equipment and supplies necessary for cleaning, testing and disinfecting the mains, removal of existing asphalt pavement and sod; milling and resurfacing of existing asphalt pavement; removal, transport, salvage and legal disposal of demolition material; placing existing water mains out of service upon completion of work; traffic control; installation and restoration of pedestrian curb ramps and installation of detectable warning surfaces, temporary and permanent replacement of any utilities, pavement, sidewalk, curb and gutter, valley gutter, traffic circle roundabout, tree, landscaping, sod, pavement markings, and/or driveway damaged by construction and all other appurtenant and miscellaneous items and work for a complete and fully functional installation.

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The Design-Builder shall design and construct all ancillary piping, tapping, temporary bypass and tie-in connections to facilitate successful construction and commissioning of the new 8-inch and 12-inch water mains without any interruption of service to the existing Miami-Dade Water and Sewer Department's customers. The design and construction services rendered by the Design-Builder shall result in a complete, functional and operable piping project with a standard design life.

The Design-Builder must complete the work by the following duration, which excludes the warranty period administration:

Substantial Completion on or before four hundred and ninety-two (492) calendar days after the date of Notice to Proceed, which requires placing into service all new water mains and water services in the public right-of-way and shall include all work associated with surveying, geotechnical investigations, engineering, design, technical specifications, permitting, construction, testing and commissioning services for the complete and fully operational installation of the new 8-inch and 12-inch water mains and water services.

Final Completion for water service conversions/Final Completion and Project Closeout on or before five hundred and fifty-two (552) calendar days after the date of Notice to Proceed, which requires:

1. Water Service Conversions (transfer of services from the rear to the front of properties) shall include all work associated with customer contact, negotiation and agreement execution, engineering, design, permitting, construction, testing, commissioning services and restoration within private property for the installation of all required piping, fittings and accessories for the water service conversions.
2. Final Completion and Project Closeout shall include obtaining acceptance by all applicable regulatory agencies, including WASD of all Work and Services under the Contract, as well as all remaining site restorations, record documents and all other remaining incomplete or unacceptable work items identified at or subsequent to Substantial Completion.

If the Design-Builder does not achieve Substantial Completion by the established Substantial Completion Contract Date, Liquidated Damages (LDs) will be assessed in the amount of \$2,500 per calendar day, which will be paid to the County by the Design-Builder. If the Design-Builder does not achieve Final Completion by the established Final Completion Contract Date, LDs will be assessed in the amount of \$1,000 per calendar day, which will be paid to the County by the Design-Builder. LDs will be cumulative if both the Substantial Completion Contract Date and the Final Completion Contract Date are exceeded. All assessments of LDs to the Design-Builder may be adjustments to payments due to the Design-Builder.

- \$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)

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The duration of the proposed Design-Build contract is five hundred and fifty-two (552) calendar days. The total maximum compensation for the Design-Build contract is \$9,521,546, which includes the following:

- \$ 7,942,549 estimated construction cost
- \$ 857,795 estimated engineering cost
- \$ 397,127 contingency fees for construction (5%)
- \$ 85,799 contingency fees for engineering (10%)
- \$ 238,276 permitting fees

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

<i>Technical Category No.</i>	<i>Description</i>
6.01 Prime	WATER AND SANITARY SEWER SYSTEMS – WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION SYSTEMS
16.00 Prime	GENERAL CIVIL ENGINEERING
3.04 Other	HIGHWAY SYSTEMS – TRAFFIC ENGINEERING STUDIES
9.02 Other	SOILS, FOUNDATIONS AND MATERIALS TESTING – GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES
10.05 Other	ENVIRONMENTAL ENGINEERING – CONTAMINATION ASSESSMENT AND MONITORING
12.00 Other	GENERAL MECHANICAL ENGINEERING
15.01 Other	SURVEYING AND MAPPING – LAND SURVEYING
15.03 Other	SURVEYING AND MAPPING – UNDERGROUND UTILITY LOCATION
17.00 Other	ENGINEERING CONSTRUCTION MANAGEMENT

MINIMUM EXPERIENCE AND QUALIFICATIONS

Proposed Design-Builder shall demonstrate its project team experience by presenting the qualifications and capabilities of each Design-Build team member firm, for projects completed within the last five (5) years, including projects that may be at least fifty percent (50%) complete prior to the required submittal date of this Request Design-Build Services (RDBS) Step 1 solicitation, that demonstrate related minimum project experience as indicated below:

1. Lead Constructors:

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- a. The construction firm performing the water main installation work must have a minimum of five (5) years total industry experience from the date of this solicitation. It also must have constructed at least five (5) water main project(s) of similar size and complexity in an urban environment consisting of a minimum of 50,000 total linear feet of installation and minimum 8-inch nominal diameter of such water main installation is required.
- b. Experience of Lead Constructors and Pipe Installation Crews must submit history of past performance completing projects on schedule and to the satisfaction of the facility owner.

2. Lead Designers:

- a. The Lead Designer firm performing the design of the water main installation must have a minimum of five (5) years total industry experience from the date of this solicitation. It also must have designed at least five (5) water main installation project(s) in an urban environment consisting of a minimum of 10,000 total linear feet of minimum 8-inch nominal diameter.
- b. Lead Designer providing services under A/E technical certification categories 6.01 and 16.00 must demonstrate to have designed at least five (5) project(s) that were completed within the last ten (10) years from the date of this solicitation that involved water and sewer main installation.

3. Subconsultants:

Subconsultants to the Design-Builder or Lead Designer must demonstrate to have designed at least three (3) projects that were completed within the last ten (10) years from the date of the solicitation that involved the main project element for which the Subconsultant is being proposed.

4. Additional Preferred Project Experience and Past Performance

The Design-Builder teams may receive higher qualification scores from the Competitive Selection Committee (CSC) if their submitted project experience and past performance can demonstrate any of the following listed below:

- a. Listed projects are of a similar or greater size and level of complexity.
- b. Any listed projects of the proposed Design-Builder entity were designed and constructed through Design-Build project delivery.
- c. The Lead Constructor and Lead Designer have worked together on previous projects, especially on Design-Build projects.
- d. Key personnel, most significantly the proposed Project Manager, Design Manager and Construction Manager, that have served on the Projects listed and their client reference can validate exceptional performance.

DESIGN-BUILD TEAM KEY PERSONNEL EXPERIENCE AND QUALIFICATIONS

Minimum industry and position experience of Design-Build team Key Personnel are as follows:

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1. Minimum ten (10) years total industry experience of which five (5) years in a similarly responsible position for each of the following Key Personnel:
 - a. Design-Build Project Manager
 - b. Lead Designer- Design Manager
 - c. Lead Constructor - Construction Manager
 - d. Lead Civil Engineer
 - e. Pipe Installation Superintendent
2. Key Personnel must demonstrate experience with the type work to be performed.
 - a. Proposers shall identify, in their Statement of Qualifications, those State of Florida registered Professional Engineers who will sign and seal construction plans and specifications.
 - b. 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.

ADDITIONAL PREFERRED EXPERIENCE AND PAST PERFORMANCE

1. Experience in a 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, quality objectives on previous projects and maintaining a positive client relationship.

The expertise must be met by a qualified individual(s) of the Prime firm and its Subconsultants. The experience must be demonstrated by direct or substantial involvement of the individual(s) in a supervisory capacity at the Project Manager level or above. The determination of the individual's qualifications and compliance with the experience and qualifications shall be at the sole discretion of the County. The Competitive Selection Committee (CSC) may negatively evaluate proposals from firms they determine have failed to meet the above experience and qualification(s).

DESIGN-BUILDER SAFETY RECORD – PAST PERFORMANCE

Minimum past performance as reflected by a three (3) year average for the last three (3) previous full years (from the date of the solicitation) 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 and shall be 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 CSC for a Design-Builder demonstrating an average EMR lower than other competing Design-Builder firms. Design-Builder shall also provide their 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

SBD final measures: 25% SBE-A/E, 16% SBE-Construction, 4% SBE-G&S

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