

# Memorandum



**Date:** April 21, 2015

**To:** Gary Hartfield, Director  
Small Business Development

**From:** Lester Sola, Director  
Miami-Dade Water and Sewer Department

**Subject:** Review Item: Design-Build Services for the Construction of a New Drinking Water Laboratory Building at the Alexander Orr, Jr. Water Treatment Plant  
Project No. DB14-WASD-08

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It is recommended that the Small Business Development Division of the Internal Services Department review the attached request for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E), Construction and Goods and Services (G/S), in order to proceed with the advertisement and subsequent consultant selection for the above mentioned project.

The duration of the proposed design-build contract is 960 calendar days and the maximum compensation for the design-build contract is **\$7,192,306**, which includes the following:

- \$5,088,669 estimated construction cost
- \$ 891,996 estimated engineering and architecture services
- \$ 254,433 construction contingency (5%)
- \$ 89,200 architect and engineer contingency (10%)
- \$ 76,330 art in public places (1.5%)
- \$ 639,018 dedicated allowance (Mock-Ups, Administration)
- \$ 152,660 permit fee (3%)

The scope of services shall include, but 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 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 Laboratory Facility shall include:

- Parking for thirty two (32) vehicles plus six (6) county cars and three (3) golf carts, landscaping, and amenities, all within the delineated site indicated on the Site Plan attached;
- Golf cart parking is to be canopy-covered with battery-charging stations;
- Foundations, structural walls, roof, windows, doors, interior and exterior finishes;
- Laboratory spaces with laboratory cabinets, laboratory sinks, installation of WASD supplied laboratory refrigerators, laboratory equipment;
- Moving and installing equipment from the existing laboratory to the new laboratory;

- Performing relocations of existing equipment from the existing facility including disconnecting, loading, transporting, and unloading, placing in designated location, coordination, installation, and making connections;
- Miscellaneous utilities coordination for laboratory use including gases, deionized and demineralized water, regular water, drainage, sanitary sewer, polished water, laboratory water systems;
- Electrical system to include power and lighting, telephone, voice, data;
- Ventilation Special Heating, Ventilation, and Air Conditioning needs; separate air conditioning system for laboratory spaces with 100% outside air including ducting of air removal (no plenum use);
- Offices, storage areas;
- Men and women toilets, dress/undressing area, lockers area;
- Lunch room;
- Mechanical Air Conditioning spaces, electrical and un-interrupted power supply (UPS) room, phone and computer server rooms, receiving area; and foyer entry area, delivery entrance, three (3) administration offices, a secretary's area, a conference room, one (1) microbiology laboratory;
- Two (2) mass-spectrometer gas-chromatograph laboratories;
- A standard preparation storage area;
- Three (3) wet chemistry general laboratories to include, one general wet chemistry space, one solution preparation space, and one (1) wet chemistry instrumentation space;
- A chemical storage area; a dry storage area; a records storage area;
- A chemical waste space with access for pick-up from delivery area;
- A laboratory water space with delivery and pickup access;
- One (1) area for laboratory gases with access for delivery and pickup;
- Asphaltic pavement, concrete sidewalks, concrete curbs and gutters, trees, landscaping, sod, pavement markings, traffic and directional signs, and asphaltic pavement;
- Designing and constructing sewage pump station; connecting to water and sewer; negotiating and coordinating with Florida Power and Light; and
- All other appurtenant and miscellaneous items and work for a complete and fully functional installation of a Drinking Water Laboratory located at the Alexander Orr Jr. Water Treatment Plant located at 6800 S.W. 87 Avenue, Miami-Dade County, Florida.

LIQUIDATED DAMAGES are found at the end of paragraph 1.2 in the RDBS, as follows:

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 \$1,500 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 \$500 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.

Firms providing engineering services must be certified in the following technical categories and the respective percentages of the disciplines as indicated below:

<b>Technical Category</b>	<b>Engineering Activity Description</b>	<b>Total Percentage</b>	<b>SBE A/E</b>
6.03 Prime	Water and Sanitary Sewer Systems – Water and Sanitary Sewage Treatment Plants	12.00%	
9.02 Other	Soils, Foundations and Materials Testing – Geotechnical and Materials Engineering	1.00%	1.00%
10.05 Other	Environmental Engineering – Contamination Assessment and Monitoring	0.80%	0.80%
11.00 Prime	General Structural Engineering	22.00%	9.68%
12.00 Other	General Mechanical Engineering	16.00%	7.04%
13.00 Other	General Electrical Engineering	16.00%	7.04%
14.00 Prime	Architecture	16.00%	7.04%
15.01 Other	Surveying and Mapping - Land Surveying	1.00%	1.00%
15.03 Other	Surveying and Mapping – Underground and Utility Location	1.00 %	1.00 %
16.00 Other	General Civil Engineering	6.50%	
17.00 Other	Engineering Construction Management	5.50%	2.20%
18.00 Other	Architectural Construction Management	1.00%	
20.00 Other	Landscape Architecture	0.60%	0.60%
22.00 Other	ADA Title II Consultant	0.60%	0.60%
	<b>TOTAL</b>	<b>100.00%</b>	<b>38.00%</b>

WASD is recommending a 38% SBE A/E, 45.13% SBE-Construction and 1.08% SBE (G/S) participation goal. Attached are WASD's Departmental Input Worksheets and the Minimum Experience and Qualifications requirements for your review and approval.

If you have any questions, please contact Patty David, Chief, Intergovernmental Affairs Section at [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov) or (786) 552-8040.



**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS  
AND RECOMMENDATIONS**

**Water and Sewer**  
P.O. Box 330316 - 3071 SW 38 Avenue  
Miami, Florida 33233 – 0316  
T 305-665-7471  
miamidade.gov

TO: Xxxxxxx, Director  
Internal Services Department

DATE: April 21, 2015

FROM: Lester Sola, Director  
Water and Sewer Department

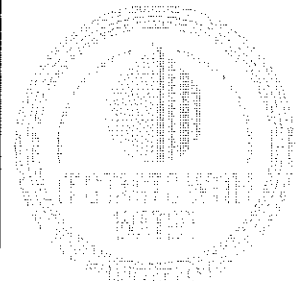
CONTRACT TITLE: Design-Build services for designing, constructing and furnishing (turn-key) a fully-functioning, 11,000 square-foot, one-story, water-testing laboratory at the south end of the Alexander Orr Water-Treatment plant, 6400 SW 87<sup>th</sup> Avenue, 33173.

**Recommendation**

WASD is requesting that the Small Business Development Division of the Internal Services Department review the attached request for SBE Construction measures for the CONSTRUCTION portion of the subject project, in order to proceed with the advertisement and subsequent design-build consultant-contractor selection for this project.

Construction Cost	\$ 5,088,669
Construction Contingency 5%	\$ 254,433
Dedicated Allowance ( Art in Public Places, Mock-Ups, Coordination)	\$ 715,348
Permitting Fees (3%)	\$ 152,660
<b>TOTAL:</b>	<b>\$ 6,211,111</b>

ITEM	DESIGN-BUILD SUBTRADE	ESTIMATED COST CONSTRUCTION	% CONSTR COST	SBE CONSTR
1	Water-Testing Laboratory	\$ 508,867	10.00%	
2	Geotechnical, Geology, Environmental Construction	\$ 152,660	3.00%	1.50%
3	Structural Construction	\$ 1,272,167	25.00%	12.50%
4	Mechanical and Lift Station Construction	\$ 1,119,507	22.00%	11.00%
5	Electrical Construction	\$ 1,119,507	22.00%	11.00%
6	Survey & Utility Location Construction	\$ 25,443	0.50%	0.38%
7	Civil Construction	\$ 636,084	12.50%	6.25%
8	D-B Construction Management	\$ 254,433	5.00%	2.50%
	Total Construction Cost	\$ 5,088,669	100.00%	45.13%
	Contingency Allowance (5% Construction)	\$ 254,433		
	Dedicated Allowance Art in Public Places (1.5%)	\$76,330		
	Mock-Ups, Administration	\$639,018		
	Permitting 3%	\$ 152,660		
	<b>Total Estimated Construction Cost including Dedicated Allowance, Contingency and Permitting Fees.</b>	<b>\$ 6,211,111</b>		



Total Dedicated Allowance = \$76,330 + \$639,018 = \$715,348.



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1) Qualifications and Experience for Lead Constructors:

- a) Minimum Project Experience and Past Performance: 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 50% complete prior to the required submittal date of this RDBS Step 1 solicitation, that demonstrate related minimum project experience as indicated below:

Lead Constructors:

- i. The Construction firm performing the laboratory construction must have minimum five (5) years total industry experience and must have constructed at least one (1) laboratory project of similar size and complexity. A minimum total of 4,800 square feet of such laboratory installation is required within the last ten (10) years.
- ii. The Lead Constructor firm performing the construction of the water laboratory shall have built at least one (1) laboratory with microbiology, wet chemistry, gas chromatography, and laboratory sampling receiving and chain of custody transfer of chemicals in similar water laboratory within the last ten (10) years.
- 2) Design-Build Team Key Personnel Experience and Qualifications:
- a) Minimum industry and position experience of Design-Build team Key Personnel are as follows:
- i. Minimum ten (10) years total industry experience of which five (5) years in a similarly responsible position for each of the following Key Personnel:
- (1) Lead Constructor - Construction Manager.

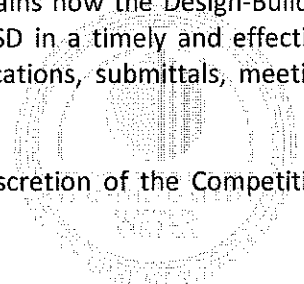
3) Design-Builder Safety Record - Past Performance

- a) Minimum 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.
- i. Design-Builders shall provide EMR data for the previous three (3) full calendar years (2012, 2013, and 2014) on a firm-wide basis shall be documented by a signed letter with contact information from the firm's insurance carrier, or the insurance carrier's agency representative. Higher qualifications score 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 indicating OSHA submitted accident data for evaluation by the CSC as to their frequency and severity.

4) Ability of Design-Builder and Team to interface with the County

- a) Design-Builder Proposer will provide a narrative of not more than three (3) single side 8.5 x 11-inch pages, in not less than Arial 11 point font and 3/4-inch margins, that explains how the Design-Builder and team members can efficiently interface with the County and MDWASD in a timely and effective manner with respect to items such as regular and emergency communications, submittals, meeting attendance, commercial issues and other project related activities.

Compliance with the above experience and qualifications shall be at the sole discretion of the Competitive Selection Committee (CSC)



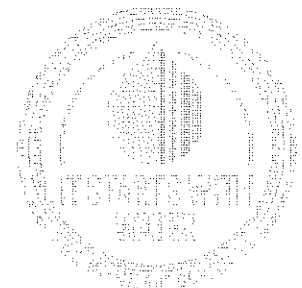


**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS  
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WASD is recommending a 45.13 % SBE Construction participation goal as shown in the table above.

Should any questions arise, please contact Patty David, Chief, Intergovernmental Affairs Section at [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov) or (786) 552-8040.



# Engineering Services Form

**Instructions:** For all new Professional Services Agreements/Design-Build Contracts, the following information must be filled out in its entirety to be processed for approval. If any section is not relevant, please mark it as not applicable. If any portion of this form is not filled out, it will be promptly returned without any review. Email the completed form to [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov) or, if you have Adobe Acrobat XI Reader, the email button at the bottom of this form will send it automatically. CC yourself to keep a copy.

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**1. PROJECT TITLE:**

Alexander Orr Jr. Water Treatment Plant Drinking Water Laboratory  
6800 S.W. 87th Avenue, Miami-Dade County, Florida Section 28, Township 54, Range 40,  
ISD Project No. DB-WASD-08, MDWASD ER W000000, PCTS No. 13614

**2. SCOPE OF SERVICES: Provide in bullet format as an attachment to this form.**

**3. PROJECT MILESTONE/SUBSTANTIAL COMPLETION DATE:**

(Applicable for Consent Decree Projects)

Request for Design-Build Service  
Develop RDBS Volumes 1 & 2, Begin 9-15-2014, Complete 1-30-2015  
Notice-to-Proceed with Construction 9-29-2015  
Notice-to-Proceed to Substantial Completion = 960 Days = 4th Quarter-2018

**4. LOCATION OF PROJECT (include Commission District(s)):**

Commission District 7 (Xavier L. Suarez), 6800 SW 87th Avenue, Alexander Orr WTP.

**5. TOTAL COMPENSATION:**

\$7,192,307.

**6. TOTAL CONTINGENCY ALLOWANCE (10% for design services):**

(5% of Direct Costs = \$254,434.) + (10% of Design Cost = \$89,200.) = \$343,634.

**7. TERM OF THE AGREEMENT:**

960 days.

**8. OPTION(S)-TO-RENEW (if applicable):**

Not Applicable

**9. A/E TECHNICAL CERTIFICATION REQUIREMENTS:**

Technical Categories	Description	Percent of work under this category	CBE %
6.03	Water Testing Laboratory	12.00	
9.00, 10.00	Geotechnical, Geology, Environmental	1.80	1.80
11.00	Structural	22.00	9.68
12.00, 13.00	Mechanical & Electrical	32.00	14.08
14.00	Architectural	16.00	7.04
15.00	Survey & Utility Location	2.00	2.00
16.00	Civil	6.50	
17.00	D-B Construction Management	6.50	2.20
20.00 & 22.00	Landscape Architect and ADA Title II	1.20	1.20
	<b>Total Design</b>	100%	<b>38.00</b>

**10. SMALL BUSINESS ENTERPRISE RECOMMENDED MEASURES FOR NON A/E SERVICES (must include trade categories and description of scope of work, if applicable):**

- 11.00 Structural Construction -- concrete formwork, painting, roofing, scaffolding.
- 12.00 Mechanical Construction -- HVAC and plumbing.
- 13.00 Electrical Construction -- power, illumination and signal.
- 16.00 Civil Construction -- excavation, fill, compaction, grading, paving, landscape.

**11. MINIMUM EXPERIENCE AND QUALIFICATIONS (include for subconsultants, if applicable):**

The lead design/build firm must have a minimum of five (5) years industry experience and must have designed and built at least three (3) laboratories and installations in an urban environment totaling 12,000 square feet minimum.

- 6.03 Water Testing Laboratory. 9.01,2,3,4,6 Soils. 10.02 Geology. 10.05,6,7 Environmental.
- 11.00 Structural Engineering. 12.00 Mechanical Engineering. 13.00 Electrical Engineering.
- 14.00 Architecture. 15.01 & 15.03 Surveying. 16.00 Civil Engineering.
- 17.00 Engineering Construction Management. 18.00 Architectural Construction Management.
- 20. Landscape Architecture. 22.00 ADA Title II Consultant.



**12. FUNDING INFORMATION (attach email(s), if applicable):**

• **Description of Capital Budget Project:**

Construct an 11,000 Sq-Ft single-story laboratory building at the south end of the Alexander Orr WTP.

• **Project Number:**

PCTS 13614, DB14-WASD-08

• **Include Capital Book Page number:**

To Be Determined (TBD).

**13. JUSTIFICATION (provide a short paragraph):**

Please see the attached sheet titled "Purpose and Necessity".

**14. RECOMMENDED COMMITTEE MEMBERS:**

• **Competitive Selection Committee Member:**

Raymond D. Diaz

• **Competitive Selection Committee Member:**

Luis Aguiar

• **Alternate Member:**

Eduardo A. Vega

• **Technical Member:**

James B. Ferguson

• **Project Manager(can be the same as technical member):**

Hallett Stiles, P.E.

**15a. If this is a design-build project, the following information must be filled out:**

CONTRACT TITLE:

Alexander Orr Jr. Water Treatment Plant Drinking Water Laboratory  
 ISD Project No. DB-WASD-08, MDWASD ER W000000, PCTS No. 13614

Construction Cost	\$ 5,088,669.
Construction Contingency 5%	\$ 254,434.
Dedicated Allowance	\$ 715,348.
Permitting Fees 3%	\$ 152,660.
<b>TOTAL:</b>	<b>\$ 6,211,111.</b>

ITEM	SUBTRADE	ESTIMATED COST	% OF CONSTRUCTION COST	CSBE AVAILABILITY
1	Water-Testing Laboratory	\$ 508,867	10.00%	
2	Geotechnical, Geology, Environmental	\$ 152,660	3.00%	1.50%
3	Structural	\$ 1,272,167	25.00%	12.5%
4	Mechanical	\$ 1,119,507	22.00%	11.00%
5	Electrical	\$ 1,119,507	22.00%	11.00%
6	Survey & Utility Location	\$ 25,443	0.50%	0.38%
7	Civil	\$ 636,084	12.50%	6.25%
8	D-B Construction Management	\$ 254,434	5.00%	2.50%
	Total Construction Cost	\$ 5,088,669	100%	45.13%
	Contingency Allowance 5%	\$ 254,434		
	Dedicated Allowance (must be itemized for each allowance)	\$ 715,348		
	Permitting 3%	\$ 152,660		
	Total Estimated Construction Cost including Dedicated Allowance, Contingency and Permitting Fees	\$ 6,211,111		

**15b. MINIMUM EXPERIENCE AND QUALIFICATIONS (include for construction subcontractors if applicable):**

The lead design/build firm must have a minimum of five (5) years industry experience and must have designed and built at least three (3) laboratories and installations in an urban environment totaling 12,000 square feet minimum.

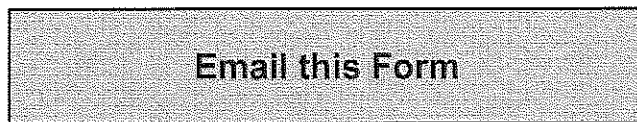
6.03 Water-Testing Laboratory. 9.01,2,3,4,6 Geotechnical. 10.02 Geology. 10.05,6,7 Environmental. 11.00 Structural Engineering. 12.00 Mechanical Engineering. 13.00 Electrical Engineering. 14.00 Architecture. 15.01,3 Surveying. 16.00 Civil Engineering. 17.00 Construction Management. 18.00 Architectural Construction Management. 20. Landscape Architecture. 22.00 ADA Title II Consultant.

**15c. REQUEST FOR WAIVER OF ADMINISTRATIVE ORDER 3-39, SELECTION 11-C SELECTION PROCESS:**

Not Applicable.

**Project Manager Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

If you have any questions or need assistance, please contact Patty David at 786-552-8040 or email [pattyd@miamidade.gov](mailto:pattyd@miamidade.gov).



Original

# Memorandum



**Date:** April 7, 2015

**To:** Gary Hartfield, Director  
Small Business Development

**From:** Lester Sola, Director  
Miami-Dade Water and Sewer Department

**Subject:** Review Item: Design-Build Services for the Construction of a New Drinking Water Laboratory Building at the Alexander Orr, Jr. Water Treatment Plant  
Project No. DB14-WASD-08

It is recommended that the Small Business Development Division of the Internal Services Department review the attached request for Small Business Enterprise (SBE) measures for Architectural and Engineering (A/E), Construction and Goods and Services (G/S), in order to proceed with the advertisement and subsequent consultant selection for the above mentioned project.

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- 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 Water and Sewer Department's (WASD) supplied laboratory refrigerators, and laboratory equipment;

- 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 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;
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- 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 located at 6800 S.W. 87 Avenue, Miami-Dade County, Florida.

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 two thousand five hundred dollars (\$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 one thousand dollars (\$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.

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15.03 Other	Surveying and Mapping-Underground and Utility Location	.50%	.50%
16.00 Other	General Civil Engineering	12.00%	
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18.00 Other	Architecture Construction Management	2.50%	
20.00 Other	Landscape Architecture	2.00%	2.00%
22.00 Other	Americans Disability Act Title II Consultant	2.00%	2.00%
	<b>TOTAL</b>	<b>100.00%</b>	<b>38.00%</b>

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Attachments

**DEPARTMENTAL INPUT  
CONTRACT MEASURE ANALYSIS AND RECOMMENDATION**

DATE:

TO: Gary Hartfield, Director  
Small Business Development

FROM: Lester Sola, Director  
Water and Sewer Department



TITLE: Design-Build Services for the Construction of a New Drinking Water Laboratory Building at the Alexander Orr, Jr. Water Treatment Plant Project: DB14-WASD-08

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	Mock-Ups, Administration Permitting (3%)	\$ 639,018		
		\$ 152,660		
12	Total Estimated Construction Cost including Dedicated Allowance, Contingency and Permitting Fees	\$6,211,111		





**Design-Build Services for the Construction of a New Drinking Water  
Laboratory Building at the Alexander Orr, Jr. Water Treatment Plant  
Project No. DB14-WASD-08**

**EXPERIENCE AND QUALIFICATIONS**

The Proposed Design-Builder shall demonstrate its project teams 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 submission date of this Request for Design-Build Services Step one (1) solicitation, that demonstrate related minimum project experience as indicated below:

Qualifications and Experience for Lead Constructors and Lead Designers:

**A. Lead Constructors:**

1. The Lead Constructor firm performing the construction of the laboratory installation must have a minimum of five (5) years total industry experience from the date of this solicitation and must have constructed at least one (1) laboratory installation project in an urban environment consisting of a minimum of 4,800 total square feet laboratory construction within the last ten (10) years from the date of this solicitation.
2. The Lead Constructor firm performing the construction of the water laboratory shall have built at least one (1) laboratory with microbiology, wet chemistry, gas chromatography, and laboratory sampling receiving and chain of custody transfer of chemicals in a similar water laboratory within the last ten (10) years from the date of this solicitation.

**B. Lead Designers:**

1. The Lead Designer firm performing the design of the laboratory installation must have a minimum of ten (10) years total industry experience from the date of this solicitation and must have designed at least one (1) laboratory installation project in an urban environment consisting of a minimum of 4,800 total square feet of laboratory construction.
2. The Lead Designer firm performing the design for the water laboratory shall have designed a laboratory with spaces dedicated to microbiology, wet chemistry, solution preparation, chemistry storage, and gas chromatography. The Lead Design firm shall demonstrate experience with the requirements from the National Environmental Laboratory Accreditation Conference (NELAC).
3. The Lead Designer firm shall demonstrate knowledge and experience with requirements from NELAC. Lead Designer firm shall have passed the exam and be a Leadership in Energy and Environmental Design (LEED) Green Associate with a documented, up-to-date understanding of the most current green building principles and practices and committed to the principles of Green design. The Lead Designer firm shall also possess a LEED AP BD+C and ID+C certifications. The Lead Designer firm within the Design-Build entity may qualify for one (1) or more of the above project requirements, and shall at a minimum qualify similar to Item one (1) described above.

**C. Subconsultants:**

1. Subconsultants to the Design-Builder or Lead Designer providing services must demonstrate to have designed at least one (1) project that was completed within the last ten (10) years that involved the main project element for which the Subconsultant is being proposed.

- D. Additional Preferred Project Experience and Past Performance:  
Design-Builder teams may receive higher qualification scores from the Competitive Selection Committee (CSC) if their submitted project experience and past performance can demonstrate the following:
1. Listed projects are of a similar or greater size and level of complexity.
  2. Any listed projects of the proposed Design-Builder entity were designed and constructed through Design-Build project delivery.
  3. The Lead Constructor and Lead Designer have worked together on previous projects, especially on Design-Build projects.
  4. Key Personnel, most significantly the proposed Project Manager, Design Manager and Construction Manager, have served on the Projects listed and their client references can validate exceptional performance.
- E. Design-Build Team Key Personnel Experience and Qualifications:
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:
    - 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 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.
- F. 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.
  3. Contractor shall have experience in ordering pipe.
- G. 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 (2012, 2013, and 2014) on a firm-wide basis 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 Occupational Safety and Health Administration (OSHA) forms 300 and 300A for the last three (3) full calendar years (2012, 2013, and 2014) indicating OSHA submitted accident data for evaluation by the CSC as to their frequency and severity.