



May 30, 2019

City of Coral Gables

Finance Department / Procurement Division
2800 SW 72nd Avenue
Miami, Florida 33155

Reference: **RFQ No. 2019-015**
Civil and Environmental Engineering Services

Dear Selection Committee:

Milian, Swain & Associates, Inc. (MSA) is pleased to submit the attached response for the Request for Qualifications to provide Civil and Environmental Services to the City of Coral Gables (“City”). MSA is proud of its long history in providing professional engineering services with an emphasis in these types of projects, including financial and utility management consulting assistance to government, private and municipal clients.

We hereby enclose one (1) original, seven (7) copies and one (1) digital CD of our Proposal which details our Firm’s technical expertise and relevant experience.

MSA has selected Mr. Gabriel Milian, P.E. as the Project Manager for projects resulting from this RFQ. He has 16 years of experience in Civil Infrastructure Design, Permitting and Construction Management in South Florida. During his 16 year tenure with MSA, Mr. Milian has served as Project Manager on several governmental, municipal and private projects similar to the ones addressed in this RFQ. He will be supported by qualified in-house technical staff. We will select the staff that is an exact match for the services required to assure that the final product will meet the objectives of the City of Coral Gables.

Prior to MSA’s inception in 1989, some key members of our staff worked in various capacities for one of the largest privately-owned water and wastewater utilities in Florida, thus providing clients with a team that has proven itself by working together over the years. We have also demonstrated our desire to improve the quality of life and to protect the natural environment of South Florida.

Debbie Swain, a principal of the firm, has been actively involved as a resident of Coral Gables and serves on a number of City committees, and Gabriel Milian, P.E., our proposed Project Manager for this contract, is also a long-time resident of the City. Arsenio Milian, P.E., another founder of the company, was a former member of the South Florida Water Management District and most recently a member of the Miami Dade County’s Sea Level Rise Task Force.

MSA has also been providing civil & environmental engineering services to Miami Dade County and numerous municipalities for the last 30 years. We pride ourselves in delivering exceptional and practical solutions to our clients by offering the excellent working relationships we have developed through the years with key staff at municipal, county, state and federal agencies. We are very familiar with the permitting process and regulatory requirements of all regulatory agencies involved in civil & environmental engineering projects; such as, SFWMD, USACE, FDEP, Miami Dade County RER, FDOT-6 and municipal departments. Our breadth of experience and established



Milian, Swain & Associates, Inc.

2025 SW 32 Avenue, Suite 110, Miami, Florida 33145
Tel: (305) 441-0123 Fax: (305) 441-0688
www.milianswain.com

relationships with the regulatory agencies results in more efficient and cost-effective designs and will provide the City of Coral Gables with instant credibility when negotiating permit compliance terms.

MSA is located within 10-minutes of the City of Coral Gables Public Works Department. Because of our close proximity to the Public Works Department, we are immediately available to address the needs of the City and, if needed, can provide qualified personnel to work as an extension of the City's staff.

The MSA Team selected for this contract includes the following firms that we have successfully worked with on similar assignments:

- ▶ **Milian, Swain & Associates, Inc.**
(Prime – Civil & Environmental Engineering)
- ▶ **Wood Environmental & Infrastructure Solutions, Inc. (Previously AMEC Foster Wheeler)**
(Sub-consultant – Environmental Hazard Mitigation Strategies)
- ▶ **HBC Engineering Company**
(Sub-consultant – Roadway & Transportation)
- ▶ **Longitude Surveyors**
(Sub-consultant – Surveying & Mapping)
- ▶ **GEOSOL, Inc.**
(Sub-consultant –Geotechnical Engineering & Testing)

Selecting this Team for this contract ensures that The City of Coral Gables will receive:

- ▶ Efficient and quick project start up.
- ▶ Qualified and experienced Management and Technical team of professionals
- ▶ Seamless interface with the City's staff, local, state and federal agencies; and
- ▶ High Quality, cost-effective work completed on schedule and within budget.

We thank The City of Coral Gables for this opportunity and look forward to a long-standing and positive relationship.

Sincerely,

MILIAN, SWAIN, & ASSOCIATES, INC.

Arsenio Milian, P.E.
President

REQUEST FOR QUALIFICATIONS

Civil and Environmental Engineering Services

RFQ 2019-015

Submitted To:

City of Coral Gables



Prepared By:

MSA

Milian, Swain & Associates, Inc.

2025 SW 32 Avenue, Miami, Florida 33145

Contact and Liaison to Contract: Julio Menache

Telephone: (305) 441-0123 / Fax: (305) 441-0688

E-mail: jmenache@milianswain.com

www.milianswain.com

May 30, 2019

2:00 PM





Table of Contents

Section I

1. Title Page.....	1
2. Table of Contents.....	2
3. Proposer's Acknowledgement Form.....	4
4. Submission Checklist.....	6
5. Proposer's Affidavit and Schedules A through M.....	10
6. Standard Form 330.....	28
7. Minimum Qualification Requirements.....	37
8. Small Business Enterprise Statement.....	38

Section II – (i) For Proposer

1. Company History.....	40
2. Familiarity with Permitting.....	52
3. Experience with Other Disciplines.....	53
4. Experience with Envision and LEED.....	54

Section II – (ii) For Key Personnel

1. Standard Form 330, Part I – Section E.....	58
2. Organizational Chart.....	109

Section III

1. Approach and Methodology.....	111
2. Preserving the Historic and Natural Environment.....	118
3. Workload.....	123
4. Ability to Positively and Innovatively Move a Project.....	128
5. Ability to Provide Schedule/Cost/Quality Control.....	129
6. Ability to Successfully Deliver Similar Projects.....	131
7. Compliance with Public Policies.....	133

Section IV

1. Standard Form 330, Part I – Section F.....	135
2. Work Performed for the City of Coral Gables.....	149
3. Discontinued Use List.....	153
4. Incidents Within Last Five Years.....	154

Section V – Attachments

1. Firm Licenses and Certifications.....	156
--	-----

3. Proposer's Acknowledgement Form

CITY OF CORAL GABLES, FL

2800 SW 72nd Avenue, Miami, FL 33155
 Finance Department / Procurement Division
 Tel: 305-460-5102 / Fax: 305-261-1601

PROPOSER'S ACKNOWLEDGEMENT

<p>RFQ Title: Civil and Environmental Engineering Services</p> <hr/> <p>RFQ No. 2019-015</p> <p>A cone of silence is in effect with respect to this RFQ. The Cone of Silence prohibits certain communication between potential vendors and the City. For further information, please refer to the City Code Section 2-1027 of the City of Coral Gables Procurement Code.</p>	<p>Sealed response submittals must be received prior to 2:00 p.m., Monday, May 27, 2019, by the Procurement Office, located at 2800 SW 72nd Avenue, Miami, FL 33155 and are to remain valid for 120 calendar days. Submittals received after the specified date and time will be returned unopened.</p> <p>Contact: Yusbel Gonzalez, CPPB Title: Procurement Specialist Telephone: 305-460-5107 Email: ygonzalez@coralgables.com / contracts@coralgables.com</p>
--	---

Proposer's Name: Milian, Swain & Associates, Inc.	FEIN or SS Number: 65-0094999
Complete Mailing Address: 2025 SW 32 Ave, Suite 110 Miami, Florida 33145	Telephone No.: (305) 441-0123
Indicate type of organization below: Corporation: <input checked="" type="checkbox"/> Partnership: <input type="checkbox"/> Individual: <input type="checkbox"/> Other: <input type="checkbox"/>	Cellular No.:
Bid Bond / Security Bond (if applicable) <u>N/A</u> %	Fax No.: (305) 441-0688
	Email: amilian@milianswain.com

ATTENTION: THIS FORM ALONG WITH ALL REQUIRED RFQ FORMS MUST BE COMPLETED, SIGNED (PREFERABLY IN BLUE INK), AND SUBMITTED WITH THE RESPONSE PRIOR TO THE SUBMITTAL DEADLINE. FAILURE TO DO SO MAY DEEM PROPOSER AS NON-RESPONSIVE.

THE PROPOSER CERTIFIES THAT THIS SUBMITTAL IS BASED UPON ALL CONDITIONS AS LISTED IN THE RFQ DOCUMENTS AND THAT THE PROPOSER HAS MADE NO CHANGES IN THE RFQ DOCUMENT AS RECEIVED. THE PROPOSER FURTHER AGREES IF THE RESPONSE IS ACCEPTED, THE PROPOSER WILL EXECUTE AN APPROPRIATE AGREEMENT FOR THE PURPOSE OF ESTABLISHING A FORMAL CONTRACTUAL RELATIONSHIP BETWEEN THE PROPOSER AND THE CITY OF CORAL GABLES FOR THE PERFORMANCE OF ALL REQUIREMENTS TO WHICH THIS RFQ PERTAINS. FURTHER, BY SIGNING BELOW PREFERABLY IN **BLUE INK**, ALL RFQ PAGES ARE ACKNOWLEDGED AND ACCEPTED AS WELL AS ANY SPECIAL INSTRUCTION SHEET(S) IF APPLICABLE. THE UNDERSIGNED HEREBY DECLARES (OR CERTIFIES) ACKNOWLEDGEMENT OF THESE REQUIREMENTS AND THAT HE/SHE IS AUTHORIZED TO BIND PERFORMANCE OF THIS RFQ FOR THE ABOVE PROPOSER.

Arsenio Milian, PE

Authorized Name and Signature

 President

Title

 5/28/2019

Date

4. Submission Checklist

SOLICITATION SUBMISSION CHECKLIST

Request for Qualifications (RFQ) No. 2019-015

COMPANY NAME: (Please Print): Milian, Swain & Associates, Inc.
Phone: (305) 441-0123 Email: amilian@milianswain.com

Please provide the PAGE NUMBER in the blanks provided as to where compliance information is located in your Submittal for each of the required submittal items listed below:

SUBMITTAL - SECTION I: TITLE PAGE, TABLE OF CONTENTS, REQUIRED FORMS, AND MINIMUM QUALIFICATION REQUIREMENTS.

- 1) Title Page: Show the RFQ number and title, the name of your firm, address, telephone number, name of contact person, e-mail address, and date. PAGE # 1
- 2) Provide a Table of Contents in accordance with and in the same order as the respective "Sections" listed below. Clearly identify the material by section and page number. PAGE # 2
- 3) Fill out, sign, and submit the Proposer's Acknowledgement Form. PAGE # 4
- 4) Fill out and submit the Solicitation Submission Check List. PAGE # 6
- 5) Fill out, sign, notarize (as applicable), and submit the Proposer's Affidavit and Schedules A through M. 10 - 26
- 6) Fill out, sign, and submit Standard Form 330, Architect-Engineer Qualifications. No response will be considered without this required form. Note: a separate Standard Form 330 is not required of each Sub-Consultant. The Proposer is responsible for filling out this form and including the sub-consultant information in the corresponding areas. PAGE # 28 - 36
- 7) Minimum Qualification Requirements: submit detailed verifiable information affirmatively documenting compliance with the Minimum Qualifications Requirements shown in Section 3. PAGE # 37
- 8) Indicate whether the Proposer is a State of Florida and/or County Certified Small Business or Minority Business Enterprise. If so, indicate the certifying organization or jurisdiction and include a copy of the certification with your submittal. PAGE # 38

SUBMITTAL - SECTION II: EXPERIENCE AND QUALIFICATIONS

(i) FOR PROPOSER

- 1) Provide a complete history and description of your company, including, but not limited to: the number of years in business, size, number of employees, office location where work is to be performed, copy of applicable licenses/certifications, credentials, capabilities and capacity to effectively meet the City's needs, relevant experience and proven track record of providing the scope of services as identified in this solicitation to public sector agencies. PAGE # 40 - 51
- 2) Provide a statement detailing Proposer's familiarity with permitting agencies and permitting procedures, especially in Miami-Dade County. PAGE # 52
- 3) Describe the Proposer's expertise and experience working with other disciplines, including coordination with other design professionals and sub-consultants. PAGE # 53
- 4) Describe the Proposer's expertise and experience working with Envision and LEED Certifications. PAGE # 5

(ii) FOR KEY PERSONNEL

- 1) *Utilizing Standard Form SF330, Part I – Section E.*, provide a summary of qualifications, copy of applicable licenses/certifications, and experience, relevant to the scope of work, for all proposed key personnel (including sub-consultants). Include resumes (listing experience, education, licenses/certifications) for

your proposed key personnel and specify the role and responsibilities of each team member in providing the services outlined in the RFQ. Provide an organizational chart of all key personnel that will be used.
PAGE # 58 - 109

SUBMITTAL – SECTION III: PROJECT UNDERSTANDING, PROPOSED APPROACH, AND METHODOLOGY

1) Describe in detail, your approach and methodology to perform the services solicited herein. Include detailed information, as applicable, which addresses, but need not be limited to: Proposer's understanding of the RFQ scope and requirements, strategies for assuring assigned work is completed on time, innovative interaction and communication with the community, City staff, and multiple stakeholders.
PAGE # 111 - 117

2) Describe Proposer's approach to preserving the historic and natural environment of Coral Gables while providing the services solicited in this RFQ. PAGE # 118 - 119

3) Provide the recent, current, and projected workload of the Proposer and key personnel that will be assigned to the City. Explain how this potential contract will fit into the Proposer's workload.

The detailed list should include at a minimum the following:

- a. The company/agency
- b. Dates of services
- c. Name/Contract # of the project
- d. Scope

PAGE # 123 - 127

4) Describe the Proposer's ability to positively and innovatively move a project from the conceptual stage to a clearly defined project that may be designed and constructed, while minimizing the impact on the community. PAGE # 128

5) Describe the Proposer's ability to provide schedule control, cost control, and quality control for the services requested herein. Provide specific examples of similar initiatives that the Proposer has successfully undertaken with other public entities that were completed on-time and within budget. PAGE # 129 - 130

6) Describe Proposer's ability to successfully deliver similar projects that have significant community and business involvement. PAGE # 131 - 132

7) Explain how Proposer has complied with the public policies of the Federal Government. These include amongst other things, past and current compliance with:

- a. Equal opportunity and nondiscrimination laws as required in 41 C.F.R. Part 60-1.4(b)
- b. Affirmative steps described in 2 CFR § 200.321(b) for all subcontracting under contracts supported by FEMA financial assistance. Document Proposer's efforts to utilize M/WBE firms, including what firms were solicited as suppliers and/or subcontractors.

PAGE # 133

SUBMITTAL – SECTION IV: PAST PERFORMANCE AND REFERENCES

1) *Utilizing Standard Form SF330, Part I – Section F*, provide detailed information on five (5) of the Proposer's most recent and relevant projects similar in scope and nature to the services described in the solicitation. Under sub-section 23 – "Project Owner's Information" of Standard Form SF330, include an e-mail address for the "Point of Contact". **Note: Do not include work/services performed for the City of Coral Gables or City employees as references.** PAGE # 135 - 148

2) List all contracts which the Proposer has performed (past and present) for the City of Coral Gables. The City will review all contracts the Proposer has performed for the City in accordance with Section 4.10 Evaluation of Responses (c) (4) which states the City may consider "Proposer's unsatisfactory performance record, judged from the standpoint of conduct of work, workmanship, progress or standards of performance agreed upon in the Contract as substantiated by past or current work with the City".

As such the Proposer must list and describe all work performed for Coral Gables and include for each project:

- a. Name of the City Department for which the services are being performed,
- b. Scope/description of work,
- c. Awarded value of the contract/current value
- d. Effective dates and term of the contract
- e. City project manager's name and phone number,
- f. Statement of whether the Proposer was the prime contractor or subcontractor, and
- g. Results of the project.

PAGE # 149 - 152

- 3) Provide a list with contact information of public sector clients, if any, that have discontinued use of Proposer's services within the past two (2) years and indicate the reasons for the same. The City reserves the right to contact any reference as part of the evaluation process. PAGE # 153
- 4) Please identify each incident within the last five (5) years where (a) a civil, criminal, administrative, other similar proceeding was filed or is pending, if such proceeding arises from or is a dispute concerning the Proposer's rights, remedies or duties under a contract for the same or similar type services to be provided under this RFQ (*See Affidavit D*). PAGE # 154

-- NOTICE --

BEFORE SUBMITTING YOUR RFQ RESPONSE MAKE SURE YOU:

1. Carefully read and have a clear understanding of the RFQ, including the Scope of Services and enclosed Professional Services Agreement (*draft*).
2. Carefully follow the Submission Requirements outlined in Section 6 of the RFQ.
3. Prepare and submit ONE ORIGINAL RESPONSE and SEVEN (7) PHOTOCOPIES with ONE (1) digital copy on a CD or flash drive.
4. Clearly mark the following on the outside of your submittal package: RFQ Number, RFQ Title, Proposer's Name and Return Address, Submittal Deadline.
5. Make sure your Response is submitted prior to the submittal deadline. **Late responses will not be accepted.**

FAILURE TO SUBMIT THIS CHECKLIST AND THE REQUESTED DOCUMENTATION MAY RENDER YOUR RESPONSE SUBMITTAL NON-RESPONSIVE AND CONSTITUTE GROUNDS FOR REJECTION. THIS PAGE IS TO BE RETURNED WITH YOUR RESPONSE PACKAGE.

5. Proposer's Affidavit and Schedules A-M

STATE OF Florida

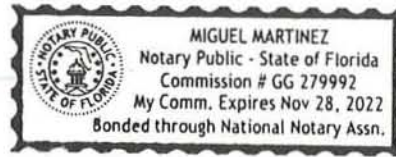
COUNTY OF Miami-Dade

On this 28 day of May, 2019, before me the undersigned Notary Public of the State of Florida, personally appeared _____
(Name(s) of individual(s) who appeared before Notary

And whose name(s) is/are subscribes to within the instrument(s), and acknowledges it's execution.



NOTARY PUBLIC, STATE OF FL



(Name of notary Public; Print, Stamp or Type as Commissioned.)

NOTARY PUBLIC
SEAL OF OFFICE:

Personally know to me, or Produced Identification:

(Type of Identification Produced)

SCHEDULE "A" - CITY OF CORAL GABLES – STATEMENT OF CERTIFICATION

Neither I, nor the company, hereby represent has:

- a. employed or retained for a commission, percentage brokerage, contingent fee, or other consideration, any company or person (other than a bona fide employee working solely for me or the respondent) to solicit or secure this contract.
- b. agreed, as an express or implied condition for obtaining this contract, to employ or retain the services of any company or person in connection with carrying out the contract, or
- c. paid, or agreed to pay, to any company, organization or person (other than a bona fide employee working solely for me or the respondent) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the contract except as here expressly stated (if any):

SCHEDULE "B" - CITY OF CORAL GABLES - NON-COLLUSION AND CONTINGENT FEE AFFIDAVIT

1. He/she is the President
(Owner, Partner, Officer, Representative or Agent)

of the Respondent that has submitted the attached response.

2. He/she is fully informed with respect to the preparation and contents of the attached response and of all pertinent circumstances respecting such response;
3. Said response is made without any connection or common interest in the profits with any other persons making any response to this solicitation. Said response is on our part in all respects fair and without collusion or fraud. No head of any department, any employee or any officer of the City of Coral Gables is directly or indirectly interested therein. If any relatives of Respondent's officers or employees are employed by the City, indicate name and relationship below.

Name: _____ Relationship: _____

Name: _____ Relationship: _____

4. No lobbyist or other Respondent is to be paid on a contingent or percentage fee basis in connection with the award of this Contract.

SCHEDULE "C" CITY OF CORAL GABLES - VENDOR DRUG-FREE STATEMENT

Preference may be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under solicitation a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under solicitation, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section. As the person authorized to sign the statement, I certify that this form complies fully with the above requirements.

The company submitting this solicitation has established a Drug Free work place program in accordance with State Statute 287.087

SCHEDULE "D" CITY OF CORAL GABLES – RESPONDENT'S QUALIFICATION STATEMENT

The undersigned declares the truth and correctness of all statements and all answers to questions made hereinafter:

GENERAL COMPANY INFORMATION:

Company Name: Milian, Swain & Associates, Inc.

Address: 2025 SW 32 Ave, Suite 110 Miami Florida 33145
Street City State Zip Code

Telephone No: (305)441-0123 Fax No: (305)441-0688 Email: amilian@milianswain.com

How many years has your company been in business under its present name? 30 Years

If Respondent is operating under Fictitious Name, submit evidence of compliance with Florida Fictitious Name Statue:

Under what former names has your company operated? : _____

At what address was that company located? _____

Is your company certified? Yes X No _____ If Yes, **ATTACH COPY** of Certification.
Is your company licensed? Yes X No _____ If Yes, **ATTACH COPY** of License

Has your company or its senior officers ever declared bankruptcy?

Yes _____ No X If yes, explain: _____

LEGAL INFORMATION:

Please identify each incident *within the last five (5) years* where (a) a civil, criminal, administrative, other similar proceeding was filed or is pending, if such proceeding arises from or is a dispute concerning the Respondent's rights, remedies or duties under a contract for the same or similar type services to be provided under this solicitation (**A response is required. If applicable please indicate "none" or list specific information related to this question. Please be mindful that responses provided for this question will be independently verified**):

Has your company ever been debarred or suspended from doing business with any government entity?

Yes ___ No X If Yes, explain _____

SCHEDULE "E" CITY OF CORAL GABLES – CODE OF ETHICS, CONFLICT OF INTEREST, AND CONE OF SILENCE

THESE SECTIONS OF THE CITY CODE CAN BE FOUND ON THE CITY'S WEBSITE, UNDER GOVERNMENT, CITY DEPARTMENT, PROCUREMENT, PROCUREMENT CODE (CITY CODE CHAPTER 2 ARTICLE VIII); SEC 2-1023; SEC 2-606; AND SEC 2-1027, RESPECTIVELY.

IT IS HEREBY ACKNOWLEDGED THAT THE ABOVE NOTED SECTIONS OF THE CITY OF CORAL GABLES CITY CODE ARE TO BE ADHERED TO PURSUANT TO THIS SOLICITATION.

SCHEDULE "F" CITY OF CORAL GABLES - AMERICANS WITH DISABILITIES ACT (ADA) DISABILITY NONDISCRIMINATION STATEMENT

I understand that the above named firm, corporation or organization is in compliance with and agreed to continue to comply with, and assure that any sub-contractor, or third party contractor under this project complies with all applicable requirements of the laws listed below including, but not limited to, those provisions pertaining to employment, provision of programs and service, transportation, communications, access to facilities, renovations, and new construction.

The American with Disabilities Act of 1990 (ADA), Pub. L. 101-336, 104 Stat 327, 42 U.S.C. 12101,12213 and 47 U.S.C. Sections 225 and 661 including Title I, Employment; Title 11, Public Services; Title III, Public Accommodations and Services Operated by Private Entities; Title IV, Telecommunications; and Title V, Miscellaneous Provisions.

The Florida Americans with Disabilities Accessibility Implementation Act of 1993, Sections 5553.501-553.513, Florida Statutes

The Rehabilitation Act of 1973, 229 U.S.C. Section 794

The Federal Transit Act, as amended, 49 U.S.C. Section 1612

The Fair Housing Act as amended, 42 U.S.C. Section 3601-3631

SCHEDULE "G" CITY OF CORAL GABLES - STATEMENT PURSUANT TO SECTION 287.133 (3) (a), FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES

1. I understand that a "public entity crime" as define in Paragraph 287.133(1)(g), **Florida Statutes**, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or of the United States, including, but not limited to, any Proposal or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
2. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), **Florida Statutes**, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.

3. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means:

1. A predecessor or successor of a person convicted of a public entity crime; or 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.

4. I understand that a "person" as defined in Paragraph 287.133(1)(e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which Proposals or applies to Proposal on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

5. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. **[Please indicate which statement below applies.]**

Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

The entity submitting this sworn statement, or one or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted vendor list.

[Attach a copy of the final order]

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT IN EXCESS OF THE THRESHOLD AMOUNT PROVIDED IN SECTION 287.017, FLORIDA STATUTES FOR CATEGORY TWO OF ANY CHANGE IN THE INFORMATION CONTAINED IN THIS FORM.

SCHEDULE "H" CITY OF CORAL GABLES - ACKNOWLEDGEMENT OF ADDENDA

1. The undersigned agrees, if this RFP is accepted, to enter in a Contract with the CITY to perform and furnish all work as specified or indicated in the RFP and Contract Documents within the Contract time indicated in the RFP and in accordance with the other terms and conditions of the solicitation and contract documents.
2. Acknowledgement is hereby made of the following Addenda, if any (identified by number) received since issuance of the Request for Proposal.

Failure to adhere to changes communicated via any addendum may render your response non-responsive.

Addendum No. 1 Date 5/08/2019

Addendum No. _____ Date _____

Addendum No. 2 Date 5/14/2019

Addendum No. _____ Date _____

Addendum No. _____ Date _____

Addendum No. _____ Date _____

SCHEDULE "I" - APPENDIX A, 44 C.F.R. PART 18-CERTIFICATION REGARDING LOBBYING

LOBBYING - 31 U.S.C. 1352, as amended

APPENDIX A, 44 CFR PART 18--CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements
(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Company] certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form--LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Respondent, Arsenio Milian, PE, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A 3801, *et seq.*, apply to this certification and disclosure, if any.

Arsenio Milian Signature of Company's Authorized Official

Arsenio Milian, PE - President Name and Title of Company's Authorized Official

5/28/19 Date

SCHEDULE "J" – CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

Government Debarment & Suspension Instructions

1. By signing and submitting this form, the prospective lower tier participant is providing the certification set out in accordance with these instructions.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension or debarment.
3. The prospective lower tier participant shall provide immediate written notice to the person(s) to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549, at 2 C.F.R. Parts 180 and 417. You may contact the department or agency to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this form that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this form that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the System for Award Management (SAM) database.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
9. Except for transactions authorized under paragraph (5) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

**Certification Regarding Debarment, Suspension,
Ineligibility and Voluntary Exclusion
Lower Tier Covered Transactions**


The following statement is made in accordance with the Privacy Act of 1974 (5 U.S.C. § 552(a), as amended). This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, and 2 C.F.R. §§ 180.300, 180.355, Participants' responsibilities. The regulations were amended and published on August 31, 2005, in 70 Fed. Reg. 51865-51880.

[READ INSTRUCTIONS ON PREVIOUS PAGE BEFORE COMPLETING CERTIFICATION]

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency;
2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this solicitation

Arsenio Milian, PE - President

Printed Name and Title of Authorized Representative


Signature

5/28/19
Date

SCHEDULE "K" FEDERAL GRANT FUNDING SPECIAL PROPOSAL CONDITIONS

This procurement is fully or partially Federally Grant funded. Respondent certifies that it shall comply with the applicable clauses as enumerated below.

1. **Drug Free Workplace Requirements:** Drug-free workplace requirements in accordance with Drug Free Workplace Act of 1988 (Pub L 100-690, Title V, Subtitle D) All proposers entering into Federal funded contracts over \$100,000 must comply with Federal Drug Free workplace requirements as Drug Free Workplace Act of 1988.
2. **Respondent's Compliance:** The respondent shall comply with all uniform administrative requirements, cost principles, and audit requirements for federal awards.
3. **Conflict of Interest:** The respondent must disclose in writing any potential conflict of interest to the city or pass-through entity in accordance with applicable Federal policy.
4. **Mandatory Disclosures:** The respondent must disclose in writing all violations of Federal criminal law involving fraud, bribery, or gratuity violations potentially affecting the Federal award.
5. **Utilization of Minority and Women Firms (M/WBE):** The respondent must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible, in accordance with 2CFR 200.321. If subcontracts are to be let, prime proposer will require compliance by all sub-contractor. Prior to contract award, the respondent shall document efforts to utilize M/WBE firms including what firms were solicited as suppliers and/or subcontractor as applicable and submit this information with their bid submittal. Information regarding certified M/WBE firms can be obtained from:

Florida Department of Management Services (Office of Supplier Diversity)
Florida Department of Transportation
Minority Business Development Center in most large cities and
Local Government M/DBE programs in many large counties and cities

6. **Equal Employment Opportunity/Nondiscrimination:** (As per Executive Order 11246) The respondent may not discriminate against any employee or applicant for employment because of age, race, color, creed, sex, disability or national origin. The respondent agrees to take affirmative action to ensure that applicants are employed and that employees are treated during employment without regard to their age, race, color, creed, sex, disability or national origin. Such action shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship.
7. **Davis-Bacon Act:** If applicable to this contract, the respondent agrees to comply with all provisions of the Davis Bacon Act as amended (40 U.S.C. 3141-3148). Respondents are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, respondents must be required to pay wages not less than once a week. If the grant award contains Davis Bacon provisions, the City will place a copy of the current prevailing wage determination issued by the Department of Labor in the solicitation document. The decision to award a contract shall be conditioned upon the acceptance of the wage determination.
8. **Copeland Anti Kick Back Act:** If applicable to this contract, respondents shall comply with all the requirements of 18 U.S.C. § 874, 40 U.S.C. § 3145, 29 CFR Part 3 which are incorporated by reference to this contract. Respondents are prohibited from inducing by any means any person employed in the construction, completion or repair of public work to give up any part of the compensation to which he or she is otherwise entitled.

9. **Contract Work Hours and Safety Standards Act** (40 U.S.C. 3701–3708): Where applicable, all contracts awarded in excess of \$100,000 that involve the employment of mechanics or laborers must be in compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each respondent is required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
10. **Clean Air Act (42 U.S.C. 7401–7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251–1387):** as amended—The Respondent agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401–7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. 1251–1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).
11. **Debarment and Suspension** (Executive Orders 12549 and 12689): A contract award (see 2 CFR 180.220 and 2 CFR pt. 300) must not be made to parties listed on the government wide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension. SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. The respondent shall certify compliance. The respondent further agrees to include a provision requiring such compliance in its lower tier covered transactions and subcontracts.
12. **Byrd Anti-Lobbying Amendment** (31 U.S.C. 1352): Respondents that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. The respondent shall certify compliance.
13. **Rights to Inventions Made Under a Contract or Agreement:** If the Federal award meets the definition of "funding agreement" under 37 CFR § 401.2 (a) and the recipient or sub-recipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or sub-recipient must comply with the requirements of 37 CFR Part 401,"Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.
14. **Procurement of Recovered Materials:** Respondents must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

15. **Access to Records and Reports:** Respondent will make available to the City's granting agency, the granting agency's Office of Inspector General, the Government Accountability Office, the Comptroller General of the United States, City of Coral Gables, or any of their duly authorized representatives any books, documents, papers or other records, including electronic records, of the proposer that are pertinent to the City's grant award, in order to make audits, investigations, examinations, excerpts, transcripts, and copies of such documents. The right also includes timely and reasonable access to the respondent's personnel during normal business hours for the purpose of interview and discussion related to such documents. This right of access shall continue as long as records are retained.
16. **Record Retention:** Respondent will retain of all required records pertinent to this contract for a period of three years, beginning on a date as described in 2 C.F.R. §200.333 and retained in compliance with 2 C.F.R. §200.333.
17. **Federal Changes:** Respondent shall comply with all applicable Federal agency regulations, policies, procedures and directives, including without limitation those listed directly or by reference, as they may be amended or promulgated from time to time during the term of the contract.
18. **Termination for Default (Breach or Cause):** If a contract is entered into, the Respondent acknowledges that if it fails to perform in the manner called for in the contract, or if the Respondent fails to comply with any other provisions of the contract, the City may terminate the contract for default. Termination shall be effected by serving a notice of termination to the respondent setting forth the manner in which the respondent is in default. The respondent will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.
19. **Safeguarding Personal Identifiable Information:** Respondent will take reasonable measures to safeguard protected personally identifiable information and other information designated as sensitive by the awarding agency or is considered sensitive consistent with applicable Federal, state and/or local laws regarding privacy and obligations of confidentiality.
20. **Prohibition on utilization of cost plus a percentage of cost contracts:** The City will not award contracts containing Federal funding on a cost plus percentage of cost basis.
21. **Energy Policy and Conservation Act (43 U.S.C. §6201):** All contracts except micro-purchases (\$3000 or less, except for construction contracts over \$2000). Contracts shall comply with mandatory standards and policies relating to energy efficiency, stating in the state energy conservation plan issued in compliance with the Energy Policy and Conservation act. (Pub. L. 94-163, 89 Stat. 871) [53 FR 8078, 8087, Mar. 11, 1988, as amended at 60 FR 19639, 19645, Apr. 19, 1995].

As the person authorized to sign this statement, I certify that this company complies/will comply fully with the above applicable requirements. I further certify that any subcontractor will also be required to comply with the requirements above.

DATE 5/28/19

SIGNATURE Arsenio Milian

COMPANY: Milian, Swain & Associates, Inc.

NAME: Arsenio Milian, PE

ADDRESS 2025 SW 32 Ave, Suite 110
Miami, Florida 33145

TITLE: President

E-MAIL: amilian@milianswain.com

PHONE NO (305) 441-0123

**SCHEDULE "L" - CONTRACTOR CERTIFICATION WORK HOURS AND SAFETY STANDARDS
ADDENDUM**

This certification is incorporated as part of the contract for Civil and Environmental Engineering Services.

The Contractor acknowledges and certifies that in accordance with the mandatory requirement that this provision be set forth in all FEMA related contracts, that it shall comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5).

Under 40 U.S.C. s. 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week.

The requirements of 40 U.S.C. s. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchase of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

More particularly, as set forth in 29 CFR s.5.5(b) which provides the required contract clauses:

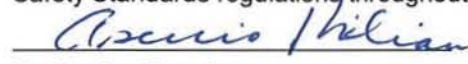
(1) *Overtime requirements.* No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) *Violation; liability for unpaid wages; liquidated damages.* In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$25 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) *Withholding for unpaid wages and liquidated damages.* The (write in the name of the Federal agency or the loan or grant recipient) shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

Milian, Swain & Associates, Inc. _____, hereby certifies that it shall adhere to the Work Hours and Safety Standards regulations throughout the duration of this Contract as set forth above.


Contractor Signature

Date: 5/28/19

SCHEDULE "M" – SAFETY ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.
2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Construction Work Hours and Safety Standards Act (40 U.S.C. 3704).
3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carryout the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standard Act (40 U.S.C. 3704).

Milian, Swain & Associates, Inc., hereby certifies that it shall adhere to the Safety Accident Prevention regulations throughout the duration of this Contract as set forth above.

Americo Pulido

Contractor Signature

Date: 5/28/19

6. SF330 - Part I and II

ARCHITECT - ENGINEER QUALIFICATIONS

PART I - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION <i>(City and State)</i> Request for Qualifications - Civil and Environmental Engineering Services (Coral Gables, Florida)	
2. PUBLIC NOTICE DATE May 3, 2019	3. SOLICITATION OR PROJECT NUMBER RFQ 2019-015

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE Arsenio Milian, PE - President		
5. NAME OF FIRM Milian, Swain & Associates, Inc.		
6. TELEPHONE NUMBER (305) 441-0123	7. FAX NUMBER (305) 441-0688	8. E-MAIL ADDRESS amilian@milianswain.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V	PARTNER			
a.	✓			Milian, Swain & Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	2025 SW 32 Ave, Suite 110 Miami, Florida 33145	Civil & Environmental Engineering
b.			✓	Wood Environmental & Infrastructure Solutions, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5845 NW 158th Street Miami Lakes, FL 6256 Greenland Road, Jacksonville, FL 511 Congress Street, Portland, ME	Environmental Engineering Contamination, Site Assessments Resiliency Resiliency
c.			✓	HBC Engineering Company <input type="checkbox"/> CHECK IF BRANCH OFFICE	13155 SW 134th Street, Suite 207 Miami, Florida 33186	Roadway and Transportation
d.			✓	GEOSOL, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	5795-A NW 151st Street, Miami Lakes, Florida 33014	Soils, Foundations and Materials Testing
e.			✓	Longitude Surveyors, LLC <input type="checkbox"/> CHECK IF BRANCH OFFICE	7769 NW 48th Street, Suite 375 Doral, Florida 33166	Surveying and Mapping
f.				 <input type="checkbox"/> CHECK IF BRANCH OFFICE		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached)

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Arsenio Milian, PE	Principal in Charge	X	X	X	X	X					
Julio Menache	QA/QC Manager	X	X	X	X	X					
Gabriel Milian, PE	Project Manager		X	X	X	X					
Deborah Swain	Public Involvement										
Kevin Young	Project Engineer			X							
Jorge Torres	Senior Engineer	X			X						
Arnaldo Carrillo, PE	Senior Engineer										
Michael Landrum, REM	Sr. Environmental Scientist										
Pablo Garcia	Field Engineer	X	X			X					
Oswaldo Perdomo	Project Engineer										

29. EXAMPLE PROJECTS KEY

NUMBER	TITLE OF EXAMPLE PROJECT (From Section F)	NUMBER	TITLE OF EXAMPLE PROJECT (From Section F)
1	16" Watermain Replacement, City of Miami Beach	6	
2	Our Lady Guadalupe Church, City of Doral	7	
3	Pump Station 177, City of South Miami	8	
4	Tree Island Park, Miami Dade	9	
5	GSA West Lot, City of Miami	10	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)
RFQ 2019-015

Part II - General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Wood Environment & Infrastructure Solutions, Inc.			3. YEAR ESTABLISHED 1994	4. DUNS NUMBER 03-808-6125
2b. STREET 511 Congress Street			5. OWNERSHIP	
2c. CITY Portland			2d. STATE ME	2e. ZIP CODE 04101
6a. POINT OF CONTACT NAME AND TITLE Jeffrey S. Pickett Senior Principal / Office Manager			a. TYPE Corporation	
6b. TELEPHONE NUMBER (207) 775-5401			b. SMALL BUSINESS STATUS not applicable	
6c. E-MAIL ADDRESS jeffrey.pickett@woodplc.com			7. NAME OF FIRM (if block 2a is a branch office)	
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Amec Foster Wheeler Environment & Infrastructure, Inc. (2015-2018)			1994	03-808-6125
AMEC Environment & Infrastructure, Inc. (2011-2014)			1994	03-808-6125
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	03-808-6125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	03-808-6125
Merger History: AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number see below Branch (Firm)
		(1) FIRM	(2) BRANCH			
06	Architects	20	7	C15	Construction Management	3 (10)
08/29	CADD Technicians/GIS Specialists	162	16	D01/D02	Dams, Dikes, Levees	1 (8)
10/11	Chemical Engineer/Chemists	60	8	E09	Env. Impact Studies/Assessments/Statements	6 (9)
12	Civil Engineers	230	8	E12	Environmental Remediation	6 (10)
14	Computer Programmers	24	3	H02	Hazardous Materials Handling and Storage	2 (8)
16	Construction Managers	83	1	H03	HTRW Remediation	5 (9)
18	Cost Engineers/Estimators	11	1	I01/I02	Industrial/Manufacturing Facilities and Processes	7 (10)
21	Electrical Engineers	25	2	M05	Military Design Standards	2 (8)
23	Environmental Engineers	169	14	O03	Ordnance, Munitions, Special Weapons	4 (9)
24	Environmental Scientists	308	14	P02	Petroleum and Fuel (Storage and Distribution)	2 (8)
25	Fire Protection Engineers	11	2	R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	2 (9)
27	Foundation/Geotechnical Engineers	151	4	S05	Soils & Geologic Studies, Foundations	1 (8)
30	Geologists	314	16	T02	Testing & Inspection Services	2 (10)
38	Land Surveyors	52	3	T03	Traffic & Transportation Engineering	1 (9)
42	Mechanical Engineers	57	6	W02/W03	Water Resources and Water Supply	3 (10)
57	Structural Engineers	34	4		Design-Build	7 (10)
58	Technicians	648	5		M/E/P Engineering	4 (9)
	Hydrogeologists	62	4		Survey, Mapping, and Data Services	4 (9)
	Project Services	563	11		Waste Management	4 (8)
	Other Professional Staff	695	6	R08	Research Facilities	4 (5)
Total		3679	135	E07	Energy Conservation; New Energy Sources	3 (6)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 3/29/2019
---	----------------------

c. NAME AND TITLE Jeffrey S. Pickett Senior Principal / Office Manager
--

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

RFQ 2019-015

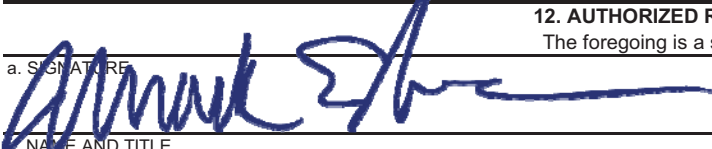
Part II - General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Wood Environment & Infrastructure Solutions, Inc.			3. YEAR ESTABLISHED 1994	4. DUNS NUMBER 03-808-6125
2b. STREET 5845 NW 158th Street			5. OWNERSHIP	
2c. CITY Miami Lakes			a. TYPE Corporation	
2d. STATE FL	2e. ZIP CODE 33014		b. SMALL BUSINESS STATUS not applicable	
6a. POINT OF CONTACT NAME AND TITLE Mark Tomczyk, Office Manager			7. NAME OF FIRM (if block 2a is a branch office)	
6b. TELEPHONE NUMBER 305-826-5588			6c. E-MAIL ADDRESS mark.tomczyk@woodplc.com	
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Amec Foster Wheeler Environment & Infrastructure, Inc. (2015-2018)			1994	03-808-6125
AMEC Environment & Infrastructure, Inc. (2011-2014)			1994	03-808-6125
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	03-808-6125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	03-808-6125
Merger History: AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.; Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
06	Architects	20	1	C15	Construction Management	4 (10)
07	Biologists	67	--	D01/D02	Dams, Dikes, Levees	1 (8)
08	CADD Technicians	82	1	E09	Env. Impact Studies/Assessments/Statements	5 (9)
10	Chemical Engineers	36	--	E12	Environmental Remediation	3 (10)
12	Civil Engineers	230	3	H02	Hazardous Materials Handling and Storage	1 (8)
15	Construction Inspectors	105	--	H03	HTRW Remediation	1 (9)
16	Construction Managers	83	1	I01/I02	Industrial/Manufacturing Facilities and Processes	3 (10)
19	Ecologists	17	1	M05	Military Design Standards	1 (8)
23	Environmental Engineers	169	3	O03	Ordnance, Munitions, Special Weapons	1 (9)
24	Environmental Scientists	308	4	P02	Petroleum and Fuel (Storage and Distribution)	3 (8)
27	Foundation/Geotechnical Engineers	151	--	R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	3 (9)
29	GIS Specialists	80	--	S05	Soils & Geologic Studies, Foundations	1 (8)
30	Geologists	314	--	T02	Testing & Inspection Services	5 (10)
42	Mechanical Engineers	57	--	T03	Traffic & Transportation Engineering	3 (9)
57	Structural Engineers	34	--	W02/W03	Water Resources and Water Supply	3 (10)
58	Technicians	648	7		Design-Build	3 (10)
62	Water Resources Engineers	149	--		M/E/P Engineering	1 (9)
	Hydrogeologists	62	--		Survey, Mapping, and Data Services	3 (9)
	Project Services	563	9		Waste Management	2 (8)
	Other Professional Staff	504	2	O01	Office Buildings; Industrial Parks	3 (8)
Total		3679	32	S13	Storm Water Handling & Facilities	3 (8)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE	
The foregoing is a statement of facts.	
a. SIGNATURE 	b. DATE 3/29/2019
c. NAME AND TITLE Mark Tomczyk, Office Manager	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)

RFQ 2019-015

Part II - General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)


2a. FIRM (OR BRANCH OFFICE) NAME Wood Environment & Infrastructure Solutions, Inc.			3. YEAR ESTABLISHED 1994	4. DUNS NUMBER 03-808-6125
2b. STREET 6256 Greenland Road			5. OWNERSHIP	
2c. CITY Jacksonville			2d. STATE FL	2e. ZIP CODE 32258
6a. POINT OF CONTACT NAME AND TITLE Michael Holm, Office Manager			a. TYPE Corporation	
6b. TELEPHONE NUMBER 904-396-5173			b. SMALL BUSINESS STATUS not applicable	
6c. E-MAIL ADDRESS michael.holm@woodplc.com			7. NAME OF FIRM (if block 2a is a branch office)	
8a. FORMER FIRM NAME(S) (if any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
Amec Foster Wheeler Environment & Infrastructure, Inc. (2015-2018)			1994	03-808-6125
AMEC Environment & Infrastructure, Inc. (2011-2014)			1994	03-808-6125
AMEC Earth & Environmental, Inc. (2000 – 2011)			1994	03-808-6125
AGRA Earth & Environmental, Inc. (1994 – 2000)			1994	03-808-6125
Merger History: AMEC E&I Holdings, Inc. (f/k/a MACTEC, Inc.); AMEC E&I, Inc. (f/k/a MACTEC Engineering and Consulting, Inc.); AMEC Geomatrix, Inc. (f/k/a Geomatrix Consultants, Inc.); AMEC-BCI Engineers & Scientists, Inc. (f/k/a BCI Engineers & Scientists, Inc.); Hydrosphere Resource Consultants, Inc.; AMEC Infrastructure, Inc. (f/k/a AGRA Infrastructure, Inc.)				

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below) Branch (Firm)
		(1) FIRM	(2) BRANCH			
05	Archeologists	25	--	C15	Construction Management	2 (10)
07	Biologists	67	--	D01/D02	Dams, Dikes, Levees	1 (8)
08	CADD Technicians	82	1	E09	Environmental Impact Studies, Assessments	1 (9)
12	Civil Engineers	230	6	E12	Environmental Remediation	2 (10)
15	Construction Inspectors	105	--	H02	Hazardous Materials Handling and Storage	2 (8)
16	Construction Managers	83	--	H03	HTRW Remediation	3 (9)
23	Environmental Engineers	169	2	I01/I02	Industrial/Manufacturing Facilities and Processes	3 (10)
24	Environmental Scientists	308	--	M05	Military Design Standards	1 (8)
27	Foundation/Geotechnical Engineers	151	4	O03	Ordnance, Munitions, Special Weapons	1 (9)
29	GIS Specialists	80	--	P02	Petroleum and Fuel (Storage and Distribution)	1 (8)
30	Geologists	314	1	R03/T06	Railroad, Rapid Transit, Tunnels, and Subway	2 (9)
40	Materials Engineers	18	3	S05	Soils & Geologic Studies, Foundations	4 (8)
42	Mechanical Engineers	57	--	T02	Testing & Inspection Services	6 (10)
58	Technicians	648	21	T03	Traffic & Transportation Engineering	4 (9)
60	Transportation Engineers	44	--	W02/W03	Water Resources and Water Supply	2 (10)
62	Water Resources Engineers	149	--		Design-Build	1 (10)
	Air Quality Specialists	16	1		M/E/P Engineering	1 (9)
	Hydrogeologists	62	--		Survey, Mapping, and Data Services	1 (9)
	Project Services	563	5		Waste Management	1 (8)
	Other Professional Staff	508	--	R11	Rivers; Canals; Waterways; Flood Control	2 (8)
Total		3679	44	S08	Special Environments; Clean Rooms, Etc.	1 (8)

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	10	1. LESS THAN \$100,000	6. \$2 million to less than \$5 million		
b. Non-Federal Work	10	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	10	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE <p style="text-align: center;">3/29/2019</p>
c. NAME AND TITLE Michael Holm, Office Manager	

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)
RFQ 2019-015

PART II – GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)


2a. FIRM (or branch office) NAME GEOSOL, INC.			3. YEAR ESTABLISHED 2000	4. DUNS NUMBER
2b. STREET 5795-A NW 151ST Street			5. OWNERSHIP	
2c. CITY Miami Lakes	2d. STATE FL	2e. ZIP CODE 33014	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Oracio Riccobono, P.E.			b. SMALL BUSINESS STATUS DBE	
6b. TELEPHONE NUMBER (305) 828-4367	6c. E-MAIL ADDRESS Geosolusa@bellsouth.net		7. NAME OF FIRM (if block 2a is a branch office) N/A	
8a. FORMER FIRM NAME(S) (if any) N/A			8b. YR. ESTABLISHED N/A	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	1		27	Geotechnical Services in 2018	6
12	Civil Engineers	4		27	Geotechnical Services in 2017	6
55	Soils Engineers	2		27	Geotechnical Services in 2016	6
63	Engineering Technicians	4		27	Geotechnical Services in 2015	6
02	Draftmen	1		27	Geotechnical Services in 2014	6
				27	Geotechnical Services in 2013	6
				27	Geotechnical Services in 2012	6
				27	Geotechnical Services in 2011	6
				27	Geotechnical Services in 2010	6
				27	Geotechnical Services in 2009	6
				27	Geotechnical Services in 2008	6
				27	Geotechnical Services in 2007	5
				27	Geotechnical Services in 2006	5
				27	Geotechnical Services in 2005	5
				27	Geotechnical Services in 2004	5
					Geotechnical Services in 2003	4
	Other Employees				Geotechnical Services in 2002	4
	Total	12			Geotechnical Services in 2001	3

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER			
a. Federal Work	1	1. Less than \$100,000	6. \$2 million to less than \$5 million		
B. Non-Federal Work	\$1,500,000 6	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million		
c. Total Work	\$1,500,000 6	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million		
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million		
		5. \$1 million to less than \$2 million	10. \$50 million or greater		

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 5/16/19
---	---------------------------

c. NAME AND TITLE
Oracio Riccobono, P.E.

AUTHORIZED FOR LOCAL REPRODUCTION
MANDATORY USE DATE OF FORM 5/1/2004

STANDARD FORM 330 (6/2004) PAGE 6

7. Minimum Qualification Requirements

(A) PROPOSER SHALL:

1. **Be regularly engaged in the business of providing the services described in this RFQ for a minimum of five (5) years, as evidenced in Standard Form 330 Architect-Engineer Qualifications.**

For verifiable information affirmatively documenting compliance with section (A), item (1), please refer to Section IV – Past Performance and References.

2. **Provide proof of active status or documentation evidencing Proposer is currently seeking active status with the Florida Department of State, Division of Corporation.**

For verifiable information affirmatively documenting compliance with section (A), item (2), please refer to Section V – Attachments.

3. **Be licensed, registered and practicing in the State of Florida as an engineering firm, with a valid “Certificate of Authorization” pursuant to Section 471.023, Florida Statute.**

For verifiable information affirmatively documenting compliance with section (A), item (3), please refer to Section V – Attachments.

(B) KEY PERSONNEL

1. **The Proposer’s Project Manager must be a licensed Professional Engineer in the State of Florida, with a minimum of five (5) years of documented experience as a Professional Engineer. Experience must include services similar in scope provided to government agencies at the municipal/local government level or higher.**

For the Professional Engineering License of MSA’s Project Engineer (Gabriel Milian, P.E.) please refer to Section V – Attachments. For verifiable information documenting a minimum of five (5) years of documented experience as a Professional Engineer, please refer to Section IV – Past Performance and References.

2. **The Proposer’s Engineers must have a minimum of three (3) years of documented experience. Experience must include services similar in scope provided to government agencies at the municipal/local government level or higher.**

For verifiable information affirmatively documenting compliance with section (B), item (2), please refer to Section 2 – Experience and Qualifications, Subsection ii – For Key Personnel.

8. Small Business or Minority Business Enterprise

Milian, Swain & Associates, Inc. is a Miami-Dade County Certified Small Business and a State of Florida Minority Business. Please find our certifications in Section V – Attachments.

Additionally, our sub-consultant **GEOSOL** is a Miami-Dade County Certified Small Business, and sub-consultants **HBC** and **Longitude Surveyors** are both a Miami-Dade County Certified Small Business and a Disadvantaged Business Enterprise. Please find their certifications in Section V - Attachments



SECTION II - (i) FOR PROPOSER

1. Company History
2. Familiarity with Permitting
3. Experience with Other Disciplines
4. Experience with Envision and LEED



1. Company Background and History

WHO WE ARE / WHAT WE DO

Milian, Swain & Associates, Inc. (MSA) is a multiple disciplined, full-service, 22-person firm that specializes in providing Civil and Environmental Engineering, Financial and Management Consulting Services. MSA was incorporated in January 1989 and is an SBE (small business enterprise) and MBE (100% minority owned) firm with a diverse ethnic workforce and a proven commitment to affirmative action.

MSA is proud of its long history of providing professional engineering services and financial and management consulting services to government, private and municipal clients.

MSA's corporate plan has changed little since its inception – to fulfill the needs of its clients by providing integrated consulting services.

MSA is located in the City of Miami at 2025 SW 32 Avenue, just 5 blocks from downtown Coral Gables.

Mission Statement

"We are a diverse organization of highly trained and motivated professionals dedicated to providing customer satisfaction through quality service, adherence to deadlines and meeting budgets. We will conduct all of our business with honesty and integrity".



KEY PERSONNEL



Arsenio Milian, P.E., President, has over **40 years of experience** in civil and environmental engineering including design, operations, construction, permitting and management of civil infrastructure systems. He served as Engineer, Vice President and President of the largest developer owned water & wastewater utilities in Florida. Currently, Mr. Milian was responsible for MSA's participation on the work related to the re-use feasibility study and water supply master plan for Miami-Dade Water and Sewer Department (MDWASD). He directed the preparation of construction drawings of the paving, grading, drainage and effluent line for the Coastal Wetland Reuse and the assistance during the water use permitting process. In addition, he assisted MDWASD in the completion of a wastewater reuse feasibility study. He reviewed current and proposed regulations and policies from the different pertaining agencies;

assisted with the identification of potential suitable users for reuse and coordinating the preparation of an updated reuse feasibility report.

He has been accepted as an expert, and has provided testimony before several agencies in the State of Florida. Mr. Milian is President and founder of Citizens for a Better South Florida, an organization that promotes the safeguarding of South Florida's natural resources. He has also been honored by receiving several prestigious awards from the environmental community as recognition of his exemplary commitment to preserving Florida's unique and irreplaceable natural environment. In recognition of his community minded track record, Mr. Milian has been appointed by three different Governors to assist in statewide areas of concern. For instance, in 1987 he was appointed by Governor Martinez as a member of the Governing Board of South Florida Water Management District, in 1991 Governor Chiles appointed him to the State of Florida Environmental Land Management Study Committee (ELMS III), and in 1999 Governor Bush appointed him to the Florida Forever Advisory Council. He currently serves at the National Council of the Wilderness Society. Most recently he was appointed and served on Miami-Dade County's Sea Level Rise Task Force.



Deborah Swain, Vice President, leads MSA's finance, management, accounting, and public relations team. She has over **40 years of experience** in utility management, accounting, finance, economic feasibility, rate regulation, and rate design and system development. Ms. Swain has been accepted as an expert in the areas of regulatory accounting, rate regulation, and utilities in general, before federal, county, and state courts and regulatory agencies. Ms. Swain has prepared and supervised cost of service studies for over 200 water and sewer systems, designed rates, including determination and implementation of wholesale rates and conservation water rates. Additionally, over the past 20 years she has led public and stakeholder involvement efforts for several large projects, including organizing and facilitating large-scale meetings to solicit input and strategize implementation for Miami-Dade Water

and Sewer Department.

Swain has been actively involved in the Coral Gables community, serving on advisory boards continuously since moving to Coral Gables in 2001 (Previously - Disability Affairs, eight years, and Transportation Advisory Board, eight years. Currently - Parks & Recreation, two years).

Swain also now serves as the City's representative on the Miami-Dade County Transportation Aesthetic Review Committee. For the past five years, Swain has been the President of an organization whose mission is to support issues and causes that preserve and improve the quality of life in Coral Gables, and promote the effective and efficient management of its government.



Julio Menache, Director of Civil & Municipal Engineering, is MSA's Engineering Director. Mr. Menache has **31 years of experience** in the design of civil infrastructure improvements throughout Miami-Dade County, including master planning, design, permitting and construction management of roadway, drainage, water distribution, sewage collection, transmission and pumping systems. During his 22-year tenure with MSA, he has successfully managed the completion of numerous municipal civil infrastructure improvement projects in South Florida for clients such as: City of South Miami, City of Miami C.R.A., City of Coral Gables, Miami-Dade County R.E.R., Miami-Dade County Public Works, Miami-Dade Water and Sewer Department, Miami-Dade County Park, Recreation and Open Spaces Department, Village of Pinecrest, City

of Miami C.I.P. Department, Miami-Dade Transit Agency. Mr. Menache's proactive attention to detail and responsiveness to the Client during all phases of a project has ensured successful results; "on time & budget".



Gabriel Milian, P.E., Project Manager, has over **16 years of experience** in civil and environmental engineering design and permitting. His experience includes multiple water distribution, sewage collection and stormwater Master Planning efforts for Miami-Dade County. Mr. Milian has worked on various projects needing hydraulic modeling from drainage regions such as the C-100 drainage basin to the county's Water Distribution system in the Water Facilities Master Plan Update for Miami-Dade Water and Sewer Department. Mr. Milian's experience includes environmental permitting of various sites for both private and public entities ranging from a truck parking facility in Northwest Miami Dade to the development of a Conceptual Environmental Resource permit for the Central District Wastewater Treatment Plant. Mr. Milian has also

been working to develop standard operating procedures with the Capacity Management, Operation and Maintenance Team for Miami-Dade Water and Sewer Department. In addition, Mr. Milian has actively participated as Project Manager in the design of water distribution, sanitary sewer, paving and grading systems for multiple private and public sector projects with complex environmental issues and requirements. Relevant projects have included the civil infrastructure design and environmental permitting for the Our Lady of Guadalupe development in Doral, Tree Island Park, and the GSA parking garage and office building in downtown Miami. He is a certified Envision Sustainability professional and thoroughly experienced with the civil and environmental permitting process and requirements in south Florida.

Arnaldo J. Carrillo, P.E., Senior Project Engineer, has over 21 years of experience in civil engineering and project/construction management. His experience with public sector clients includes project management, engineering design, cost estimating and scheduling, preparation of bid documentation, project coordination, project cost/time/quality control, field inspection, and enforcement of contract documents capital Improvements related projects. Mr. Carrillo has worked performing functions as a design consultant and as a government agent for multiple WASD projects. Mr. Carrillo's experience covers all project phases, i.e., planning, design and bid package preparation, bid preparation, bid evaluation, construction management, change order processing, claim analysis and management, and project closing.



Kevin Young, E.I., Project Engineer, has over 7 years of experience with the design of civil infrastructure in South Florida for multiple private and public sector clients. He currently serves as MSA's Lead Project Engineer under contract E13-WASD-03 between MD-WASD and MSA for the design of requisite improvements to multiple MD-WASD sewage pump stations and forcemains out of N.A.P.O.T. compliance and/or in need of rehabilitation to remediate operational and maintenance problems. Typical duties include Validation of the preliminary B.O.D.R., system hydraulic analysis, pump selection, pump station hardening for Pump Station Compliance with County Sea Level Rise resolution R-451-14. Under this PSIP program, preparation of design drawings and technical specifications, Cost Estimating, permitting and coordination with survey and design disciplines involved. Mr. Young has successfully designed seventeed (17) MDWASD regional sewage pump stations and 4 miles of sewage transmission forcemains under contract E13-WASD-03.



Jorge Torres, Project Engineer, has over 18 years of experience in the design of civil infrastructure improvements throughout South Florida, including preparation of design drawings, technical specifications, permitting and engineering services during construction of water distribution, sewage collection, transmission and pumping systems. During his 13 year tenure with MSA, he has successfully completed numerous water and sewer improvement projects for private and public sector clients. Mr. Torres has been the lead civil designer for several public sector/municipal clients, such as City of Miami Beach C.I.P and Public Works Departments, Miami Dade Parks Department, City of South Miami and City of Hialeah Water & Sewers. He is thoroughly familiar with the City of Miami Beach Design Standards and county, state and federal regulatory requirements. Representative relevant projects designed by Mr. Torres include Replacement of Existing 16-inch watermain along 63rd Street (+/- 2,000 LF) from Indian Creek Drive to LaGorce Drive for the City's Public Works Department (including subaqueous crossing of the East Indian Creek Intracoastal via horizontal directional drilling method), New 24-inch Water (+/-3,500 LF) and 16-inch Forcemain Extension (+/- 5,000 LF) along NW 97th Avenue in the City of Hialeah, Water Distribution and Sanitary Sewer Collection Systems for H.U.D Scott Carver Homes in Liberty City.



Pablo Garcia, Field Engineer, has over 30 years of experience as a designer of water distribution, sanitary sewer and paving and drainage systems. During his 17-year tenure with MSA, he has completed the design of numerous private and public sector projects. In addition, he actively participates during construction as MSA's Field Engineer performing civil infrastructure construction administration services (shop drawing reviews, field inspections, and testing). Also, as a certified FDEP stormwater inspector, he conducts requisite NPDES compliance inspections on multiple projects for compliance with FDEP's pollutant discharge elimination during construction.



Michael Landrum, R.E.M., Senior Environmental Scientist, has 40 years of experience in the environmental regulatory permitting arena working in Florida ecology and ecosystems, marine and freshwater wetlands, and upland habitat mitigation and restoration design, wetland delineations, mitigation planning and banking, aerial photo interpretation, listed species management and surveys; Gopher Tortoise, Scrub Jay, Burrowing Owl, Red Cockaded Woodpecker, Easter Indigo Snake, Wood Stork, Florida Bonneted Bat and Norther Long Eared Bat. He is thoroughly familiar with the policies and procedures for environmental permitting through the various environmental regulatory agencies including the South Florida Water Management District, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers (NEPA), Florida Game and Freshwater Fish Commission, US Fish and Wildlife Service, various municipalities and counties, and the Department of Environmental Protection. He has established relationships with these agencies. Representative projects include serving as MSA's Senior Environmental Scientist for the Tree Island Park and Preserve, a 120 acre Miami Dade County Park, located in the Everglades Bird Drive Basin, conducting all wetlands delineations, preparation of the Wetlands Mitigation Plan and most recently the development of a Five Year Onsite Wetlands Mitigation Monitoring and Maintenance Plan.



SERVICES

Milian, Swain & Associates, Inc. (MSA) is one of South Florida's most prominent civil and environmental engineering firms, located in Miami-Dade County since its inception in 1989.

MSA is a multidiscipline, full-service consulting firm with expertise in water, wastewater, reclaimed water, and stormwater utility regulation, utility finance, administrative services, ecology, engineering, and program/project management.

Our project management philosophy is to create a partnership with our clients. We implement this philosophy through teamwork with our clients and the right allocation of resources within the MSA Team. MSA builds a team approach with our clients by maintaining open honest professional communications. We do not hesitate to make tough recommendations and believe that the success of any project hinges on honest cooperation.



For 30 years, MSA has successfully provided civil engineering services to multiple private, public, and municipal clients in South Florida

Civil & Environmental Engineering

MSA provides comprehensive Civil and Environmental Engineering services for governmental agencies, municipalities, utilities, educational facilities, parks & recreational facilities, institutional and land development projects, and private clients, among others. Our services have included planning, design, permitting and construction services during construction of a wide range of projects that include expertise in the following areas:

- ✓ Master Planning
- ✓ Water & Wastewater
- ✓ Stormwater Management
- ✓ Canal Dredging
- ✓ Land Development
- ✓ Construction Management
- ✓ Roadway & Drainage
- ✓ Environmental Permitting

- Design, permitting and construction management of canal dredging, roads, drainage, water and wastewater pipelines, pumping stations, treatment and disposal projects for multiple local municipalities and other government entities.
- Design of roadway improvements, for private developments and municipal clients.
- Conducting Civil Infrastructure of Environmental Due Diligence Investigations for private and public sector clients.
- Acquiring Environmental Resource Permits (ERP) and Consumption Water Use Permit from the South Florida Water Management District and the Florida Department of Environmental Protection (DEP).
- Obtaining environmental permits from Miami-Dade County Department of Environmental Resources Management (DERM): Class I, Class III, Class IV and Class VI Permit.



MSA was part of the design team for the GSA Trade Shops project for Miami-Dade County. This development constructed in 2010 is the FIRST Miami-Dade County owned facility to receive LEED (Silver) certification from the Florida Green Building Coalition (FGB)



- Performing environmental site assessments with respect to flora and fauna as well as wildlife assessments.
- Preparing environmental impact mitigation plans to compensate for impacts to fresh water and coastal wetlands.
- Preparing Phase I environmental site assessments to determine the environmental business risk associated with a property

- Preparing contamination assessment reports (CAR) as well as executing remedial action plans (RAP) to rehabilitate contaminated properties.
- Developing dredging plans and specifications for canal maintenance, dredging improvement and associated sediment quality sampling.
- Designing and permitting drainage pumping station and associated drainage wells.
- Designing and permitting primary and secondary drainage collection systems for land development projects, municipalities, etc.
- Designing and permitting roadway resurfacing projects, roadway drainage improvement, and roadway water quality improvements.
- Project and construction management, including scheduling, cost estimating and inspection of civil and environmental projects.
- Economic feasibility studies.
- Stormwater billing data analysis, including dwelling unit and impervious area verification.



- Water and sewer utility revenue requirement determination and rate design.
- Bond feasibility reports in support of bond financing.
- SRF reporting
- Engineering and financial system development, implementation and training.
- Expert testimony in all above areas

Please find MSA's licenses, certifications, and credentials in Section IV – Attachments.

MEET OUR SUBCONSULTANTS

wood. Wood is a global leader in the delivery of project, engineering and technical services in energy, industry, and the built environment. We operate in more than 60 countries, employing around 60,000 people, with revenues of around \$11 billion. We provide performance-driven solutions throughout the asset life cycle, from concept to decommissioning across a broad range of industrial markets, including the upstream, midstream and downstream oil & gas; power & process; environment and infrastructure; clean energy; mining; nuclear and general industrial sectors.

In Florida, Wood employs nearly 400 people in offices located in every region of the state. We can draw on our experienced local managers and geographical reach to support the needs of clients, regardless of project size and complexity. Wood's depth of global resources allows us to provide our clients with innovative solutions engineered to fit perfectly with your business challenges. We have a strong reputation for balancing global excellence with local delivery.

Wood Florida offers full-service solutions to clients throughout North America and internationally. We are dedicated to the consistent achievement of industry leading standards of excellence in consulting, including:

- ✓ Air compliance, permitting, and monitoring
- ✓ Architecture
- ✓ Civil engineering
- ✓ Construction engineering and inspection
- ✓ Construction management
- ✓ Construction materials testing
- ✓ Ecological and permitting services
- ✓ Emergency management
- ✓ Energy conservation services
- ✓ Environmental services
- ✓ Facilities services
- ✓ Forensic engineering and science
- ✓ Fuel services
- ✓ Geotechnical engineering
- ✓ Laboratory services
- ✓ Mining
- ✓ Steel services
- ✓ Survey and mapping services
- ✓ Sustainability and resiliency services
- ✓ Water resources

Wood's Florida operation is home to many talented and dedicated individuals serving the engineering and scientific communities today.



HBC Engineering Company (HBC) is a uniquely qualified engineering firm, specialized in planning, seaport services, design and construction inspection services for civil, structural, transportation and water resources related engineering projects for a broad range of industries. We offer a full array of design and engineering services for all design tasks including but not limited to, general Civil Engineering Services, Utility Coordination, Roadway Design and Drainage, Signing and Marking, Lighting, Traffic Engineering Studies and Signalization, as well as provide Public Involvement services. **We can tailor our work to specific needs, setting us apart from other firms.**

We understand that the quality of our work is the legacy we leave behind and that which represents our clients, which is why we pride ourselves in **incomparable performance, relentless attention to detail and unsurpassed quality**. Throughout the years, HBC has provided industry **expertise, timely submittals** and **cost-effective service** to a broad range of clients, while remaining competitive in the market, ensuring lasting relationships with many of these clients. As we continue to grow, we stand committed to this and we pledge to continue to strive for excellence and the personal attention you deserve.

HBC is also a **minority-owned**, Florida-registered engineering consulting firm founded in 2006. We are **proudly certified as a DBE and SBE** with Florida Department of Transportation (FDOT) with a long history of successfully completed projects, which have received outstanding performance evaluations from our very satisfied clients. Together, we offer a **depth of staff, precise mix of talent, commitment to quality**, and a project management approach that guarantees the **success on any contract**.

Services we offer...

- ✓ Transportation Services
- ✓ Civil/Site Development
- ✓ Traffic Engineering
- ✓ Seaport Services
- ✓ Stormwater Management
- ✓ Planning Services
- ✓ Water and Sewer Services
- ✓ Design-Construct Services
- ✓ Airport Services
- ✓ Coastal Engineering



Geosol, Inc. (GEOSOL), a local firm located in Miami Lakes, certified as an FDOT Disadvantaged Business Enterprise (DBE) and as a Miami-Dade County Small Business Enterprise (SBE). GEOSOL is pre-qualified in FDOT Work Groups (9.1, 9.2, 9.4.1 & 9.4.2 & 9.5) and deeply experienced with all required geotechnical services. The firm provides

geotechnical engineering and testing services, including subsurface exploration studies, laboratory testing, engineering, consulting, and design of foundation systems. The firm offers the largest pool of local resources, including equipment and qualified staff, with the necessary capabilities, to effectively deliver on this uniquely challenging geotechnical project. GEOSOL is very experienced with the specific subsurface site conditions and has consistently delivered high quality services to Miami-Dade County, South Florida municipalities and FDOT with high performance grades while earning a high reputation for quality and geotechnical engineering excellence on past contracts and has obtained outstanding grades of 4.7 or higher on a scale of 5.0.

Mr. Oracio Riccobono, PE is the proposed geotechnical engineer of record. He has 33 years of geotechnical experience, in all FDOT Districts, including D4 & D6 as well as The Town of Miami Lakes. Oracio understands project issues concerning this contract, thus, no learning curve will be required. Oracio has also been selected by FIU to be Adjunct Lecturer in the field of Geotechnical Engineering. Additionally, Oracio was the GEOR for the \$70 million 2.6-mile bridges on Tamiami Trail in Miami, which included the design & 100% PDA testing of over 650 piles, \$22-million DB for US-1/SR 5 reconstruction and bridge replacement over CSX Railroad in Indian River County, the \$45-million DB Miami International Airport (MIA) Central Blvd., the \$175-million DB for SR 826, Section 2, the \$45-million NW 25th Street Viaduct over SR 826, and the \$500-million MIC-MIA Mover Station for connection between MIA and the Car Center and MIA's SFRTA/MDT Train Station.



Longitude Surveyors LLC (LS) is a rapidly growing firm that has been serving the South Florida community for the past fifteen (15) years. Longitude specializes in control, design, and Right-of-Way Surveys for infrastructure improvements. LS is based in Doral, Florida with satellite offices in Monroe, Broward, and Palm Beach Counties. LS has Clients in both the public and private sectors, including Florida Department of

Transportation (FDOT), Miami-Dade Expressway Authority (MDX) Florida Power and Light (FP&L), Miami-Dade Water and Sewer Department (MDWASD), Port of Miami, City of Miami, Village of Palmetto Bay, Town of Cutler Bay, Village of Pinecrest, and various other municipalities. Longitude's portfolio consists of working with some of Florida's highly recognized Engineering and Architectural firms and developers. Longitude also offers Sub-Surface Utility Engineering (SUE) services which includes designation (the marking of underground utilities on the ground) and potholing or soft digging, where the underground utility is exposed using Ground Penetrating Radar (GPR).

Types of Work

Longitude has performed and specializes in various types of Surveys including Topographic Surveys, As-Built Surveys, SUE (Sub-Surface Utility Engineering), Soft Digs, Construction, Pump Stations, Photogrammetry, ALTA Surveys, Sketch & Legal Descriptions, Elevation Certificates, Scanning, and Bathymetric Surveys. Longitude works as Sub-Consultants to several Engineering firms such as Ross Engineering, HBC Engineering Company, Chen Moore & Associates, HDR, Stantec, Scalar, The Corradino Group, CDM Smith, A & P Consulting Transportation Engineers, Kimley-Horn, Stantec, and many others. Longitude has performed work on water mains, bridges, parks, and Surveys for roadway design.

Certifications

Longitude is certified as a DBE, Disadvantaged Business Enterprise as well as SBE, Small Business Enterprise. LS also has MDX Certification and FDOT Major Certification.

Longitude Team

Longitude is a Client-driven company, continuously building a solid reputation by delivering projects in a timely and professional manner. LS has the advantage of having a diverse team, which is beneficial in communicating with Clients and meeting their specialized needs. The Team at Longitude is comprised of four Professional Surveyors and Mappers (PSM), Survey Technicians, CADD Technicians, and seven field crews. We match our highly qualified staff with the unique requirements of each project. We achieve success by communicating closely with each of our Clients and within our team directed by one of our highly qualified PSM's. Our culture is energetic and teamwork oriented, striving to exceed project requirements.

Commitment to Excellence

The Longitude Team strives to complete the task at hand in the most accurate and efficient manner. Attention to detail translates into successful projects. LS offers the highest degree of communication and coordination with our Clients, which contributes to building long-term relationships.

2. Familiarity with Permitting

MSA has 30 years of experience successfully assisting our private and public sector clients in obtaining civil infrastructure and environmental permits/approvals from local, county, state and federal agencies having jurisdiction of proposed developments in South Florida. The key to our success starts with a proactive approach to the “permittability” of required civil infrastructure improvements during the planning stages of a project. The MSA team of civil and environmental engineers is directed by Arsenio Milian, P.E. – Principal Engineer with over 40-year experience working on complex civil/environmental projects in South Florida. Under his leadership, the MSA staff is able to provide clients with sound engineering design consistent with permitting conditions. Because of our proven track-record in resolving civil/environmental issues, MSA has been selected on numerous projects with challenging civil/environmental permitting issues, such as:

PROJECT	DESCRIPTION	PERMITTING AGENCIES
Our Lady of Guadalupe Catholic Church	7-acre church and multi-purpose development at the intersection of NW 25th St. and NW 117th Ave. in the City of Doral.	SFWMD ERP, USACE, MDRER Class IV & Class III, MDPW, Doral PW & Building, MDWASD, MDRER W & WW, FDEP, NPDES
West Lot Parking Garage & Office	Garage and office building facility in the City of Miami	City of Miami Fire & PW, MDRER W & WW, MDWASD, MDC Health, FDEP Class-V Gravity Well
Pump Station 0177	Miami-Dade County Pump Station 0177 in City of South Miami	City of S Miami, FDOT-6. MDWASD, MDRER-WW, FDEP
Tree Island Park and Preserve	Miami-Dade County Park located south of SW 10th Street between SW 149 th Ave and SW 147 th Ave.	SFWMD, USACE FDEP, EEL DERM (Class IV), PWORKS, MDCPR, NPDES
63 Street Water-main Replacement	16-Inch Watermain Replacement Along West 63rd Street in City of Miami Beach	City of Miami Beach Fire & PS, MDRER Class I, MDRER Water, FDOT, FDEP, USACE, MD Health

3. Experience With Other Disciplines

Our professional services are predominantly collaborative, involving other consulting firms. We have worked as partners, sub-consultants, and prime consultants successfully since our inception. In our work on other projects where we are prime consultants, we work closely with our subconsultants and other client consultants to coordinate our work and to oversee deliverables to ensure that the final work product is delivered seamlessly to our clients. Furthermore, we have established working relationships with all of our subconsultants for this project, and have worked with us as team members on other projects. We are currently using Longitude Surveyors and Geosol, Inc. as subconsultants on our pump station design projects for Miami-Dade Water and Sewer Department. Currently, Wood (formerly AMEC) is our subconsultant on the stormwater sampling and monitoring project at Miami-Dade Aviation, and was our subconsultant for the environmental assessment on the Underline corridor for Miami-Dade County Transit Department.

The table below illustrates MSA’s experience working with other disciplines in all five relevant projects listed in Section IV of this submittal.

DISCIPLINES	RELEVANT PROJECTS				
	Our Lady of Guadalupe	West Lot Parking Garage & Office	PS 177	Tree Island Park and Preserve	63 rd Street Watermain Replacement
Civil	MSA	MSA	MSA	MSA	MSA
Environmental	MSA	MSA	MSA	MSA	MSA
Site Planner	X	X		X	
Architecture	X	X		X	
Structural	X	X	X	X	
M.E.P.	X	X	X	X	
Landscape Architect	X	X		X	
Surveying	X	X	X	X	X
Geotechnical	X	X	X	X	X
Archeologist				X	X

We look forward to collaborating with the City's other consultants on projects to which we are assigned.

4. Experience Working with Envision and LEED Certifications

Gabriel Milian, P.E., our proposed project manager, is a Certified Envision Sustainability Professional. Mr. Milian's most recent participation with the Envision rating system was performed for one of the MDWASD wastewater treatment plants, where MDWASD wanted to look at various alternatives for the stormwater management of the site. In order to choose an appropriate alternative, Mr. Milian helped in tabulating the scoring of the various alternatives for points corresponding to the Quality of Life, Leadership, Resource Allocation, Natural World and Climate and Risk Categories, as well as developing a cost analysis and other metrics to rank the alternatives. Ultimately, the alternative with the highest Envision score was chosen for the design. Please find Mr. Milian's full Envision Certification in Section V – Attachments.



Stephen Hanks, P.E., Senior Engineer for Wood, is a Certified LEED Accredited Professional since June, 2009. Please find Mr. Hanks' LEED Certification in Section V – Attachments.

Additionally, MSA was part of the design team for the GSA Trade Shops project for Miami-Dade County. This development, constructed in 2010, is the first Miami-Dade County owned facility to receive LEED (Silver) certification from the Florida Green Building Coalition.



SECTION II - (ii) FOR KEY PERSONNEL

1. Standard Form 330 - Section E
2. Organizational Chart



Standard Form 330, Part I – Section E



Milian, Swain & Associates, Inc.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Arsenio Milian, PE		Principal in Charge		a. TOTAL	b. WITHCURRENT FIRM
				52	30
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering; M.S. Biological Waste Treatment			Florida Professional Engineer No. 13134		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
American Waterworks Association, American Society of Civil Engineers, Citizens for a Better South Florida - President, Florida Waterworks Association, Miami River Stormwater Sub-Committee - Chair, National Audubon Society - Board of Directors, The Nature Conservancy, Florida Chapter - Board of Trustees, Water Pollution Control Federation, SFWMD - Board of Directors					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Member of the Sea Level Rise Task Force Committee – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2014 - Ongoing	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a.	<p>The Sea Level Rise Task Force Committee is responsible for providing a comprehensive and realistic assessment of the likely and potential impacts of sea level rise and storm surge on vital public services and facilities, water and other ecological resources, waterfront property, real estate, and infrastructure over time.</p> <p>The Committee is constantly working in order to develop a set of recommendations relative to the Comprehensive Development Master Plan (CDMP), Capital Facilities Planning, budgetary priorities and other County programs as necessary to ensure that Miami-Dade County is taking all appropriate actions to reduce its contributions to climate-induced sea level rise and to ensure its resiliency to that increase in sea level rise, storm surge and related impacts which are expected to occur.</p>				
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Miami International Airport Water Utilities Master Plan, Miami Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2016	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b.	<p>Principal in Charge of development and update of Water Distribution System Master Plan for the Miami International Airport (MIA). Work included Portable Water System Analysis, Hydraulic Analysis of the MIA Water Transmission and Distribution Network, as well as services to the Consultant for preparation of the Water System Hydraulic Section of the Master Plan Report.</p>				
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Pump Station Nos. 862, 863, 1003, 1009, 372, 108, 177, 795, and 1233, Miami-Dade Water and Sewer Department - Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2013	2013		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c.	<p>Principal in Charge of various sanitary sewer pump station upgrade projects for the Miami-Dade Water and Sewer Department (MDWASD). These projects include the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost, construction administration and system certifications.</p>				
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
CDWWTP Stormwater Master Plan, Miami-Dade Water and Sewer Department - Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2016	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d.	<p>Principal in Charge of master planning, hydraulic modeling and regulatory process assistance that was provided to Miami-Dade Water and Sewer Department for this project. The MSA Team prepared conceptual design for the stormwater system, hydraulic modeling to size the drainage conveyance and pump stations, documentation and design data as required to support approvals from governmental authorities that have jurisdiction over the Project.</p>				
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Water Supply Master Plan- Capital Improvements, Miami-Dade Water and Sewer Department - Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2009	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e.	<p>Responsible for coordinating all work related to a water supply master plan for Miami-Dade Water and Sewer Department (MDWASD). Coordinated the review of the water demand projections by MDWASD. Directed the preparation of a senior review of the preliminary Capital Improvement Plan (CIP). Assisted in the development of funding options for the CIP. Coordinated the assistance for the development of conclusions and recommendations for the final report.</p>				
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
C-100, C-7, C-2 Stormwater Master Plans, Miami-Dade County Department of Environmental Resources Management - Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2006	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
f.	<p>In charge of the quality control of the SWMM modeling effort of the C-100, C-7, and C-2 Basin in Miami-Dade County. The models were developed to analyze the existing basin wide water management system, identify water quality and quantity problem areas and recommend improvements.</p>				

(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Coral Gables (SFWMD C-3) Canal Dredging / Restoration Project, City of Coral Gables Public Works Department– Miami, Florida		PROFESSIONAL SERVICES 2011	CONSTRUCTION (<i>if applicable</i>) 2012
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
g. Principal in Charge of the C-3 Canal (Coral Gables Waterway) Restoration project. Successfully assisted the City in securing funding from SFWMD for the construction of this project. In charge of coordinating and managing the performance of soil sampling and testing. Coordinated the preparation of design plans. Assisted the City of Coral Gables in obtaining approvals from regulatory agencies and in the permitting application process. Organized and assisted the various subaqueous inspections performed. Directed the preparation of reports.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Tree Island Park Master Plan, Miami-Dade County Park, Recreation and Open Spaces Department - Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
h. Principal in Charge responsible for overseeing the work related to the civil and environmental engineering services that are being provided to the MDCPROS. MSA is responsible for the civil infrastructure and environmental planning, conceptual design & permitting for the 120-acre park. In addition, MSA is in charge of coordinating onsite/offsite stormwater management computations, grading, drainage plans, wetlands delineation, environmental permits and cost estimates.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Wastewater Reuse Feasibility Study and Alternative Water Supply Plan, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
i. Regulatory Advisor in charge of directing the regulatory component of the Reuse Feasibility and Alternative Water Supply Study, including identifying regulatory constraints and determining project alternatives for further evaluation. Participating in public and regulator input workshops. Making special presentations to Senior Management and County Commissioners as needed.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Alternative Water Supply Master Plan, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES 2009	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
j. Directed the firms work efforts on several tasks as a subconsultant on the Water Master Plan Team. Primary responsibilities include overseeing development of the monitoring plan for the Coastal Wetlands Rehydration Demonstration Project, research and investigation of large-scale aquifer recharge opportunities in South Miami-Dade County and in the Bird Drive Basin, and serve in the lead role in planning and facilitating large scale stakeholder meetings.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Wastewater Reuse Feasibility Study Update, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES 2009	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
k. Responsible for all public involvement aspects of the services provided to Miami-Dade Water and Sewer Department for the completion of a Wastewater Reuse Feasibility Study Update. In charge of coordinating and facilitating all required stakeholders meetings. Responsible for attending meetings with regulators in support of work effort. In addition, Ms. Swain performed the economic and present value analysis, components of the reuse feasibility report.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
36-inch DIP Force Main Interceptor, Miami-Dade Water and Sewer Department - Miami, Florida		PROFESSIONAL SERVICES 2008	CONSTRUCTION (<i>if applicable</i>) 2009
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
l. Responsible for the analysis and design of approximately 19,000 LF of 36 inch DIP sewage force main in SW Miami Dade County, including design of a new Subaqueous Crossing of the SFWMD C1-W Canal, Jack & Bore crossing of the CSX Railroad Right of Way, Pipe Joint Restraint Analysis and Connections within FDOT Right of Way in conformance with MDWASD, FDEP, SFWMD, DERM and FDOT requirements.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
New West Lot Parking Garage and Office Building Facility, Miami–Dade County GSA - Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (<i>if applicable</i>) 2012
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
m. Principal in Charge of civil engineering services for the Miami–Dade County GSA New West Lot parking garage and office building facility project. Services included the preparation of civil infrastructure constructions drawings, technical specifications and provided regulatory process and construction phase assistance. Specific services included: Preliminary Engineering, Final Design of new 12 INCH D.I.P. watermain extension, Design of new 8 INCH P.V.C. gravity sewers. Design of: Paving, Grading, Drainage, Traffic Signage & Pavement Markings, construction administration and certifications.			

(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Scott–Carver Homes; Hope VI Redevelopment, Miami–Dade Housing Agency - Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (<i>if applicable</i>) 2012
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
n. Principal in Charge of the civil engineering work related to the development of the Scott–Carver Homes; Hope VI Redevelopment Project - a proposed phased residential development located in Miami–Dade County, Florida. Work on this project included environmental site assessment, civil design & master planning, permitting services and construction administration services.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
70-Acre Warehouse Development, Prologis – Hialeah, Florida		PROFESSIONAL SERVICES 2014	CONSTRUCTION (<i>if applicable</i>) 2015
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
o. Principal in Charge of the development of this 70-acre warehouse site. Services included preliminary engineering, review of boundary and topographic surveys, geotechnical reports, site plan development assistance (which provided location of proposed pump station), stormwater management portions of USACE permit, and coordination with environmental consultant. The work included preparation of PG&D plans, permits, and specifications. Water Distribution plans depicted 8-inch and 12-inch minimum diameter pipes, with all necessary valves, fire hydrants, backflow preventors, and site fire protection for connection to a new public watermain. Sanitary Sewer Collection System plans consisted of a private onsite lift station, 8" gravity mains and force mains to be connected to central sewer system offsite, as well as location and invert of sewer service laterals. The work also included design drawings for the extension of a 1.5 mile 16" watermain connecting to the City of Hialeah 36" watermain; and design drawings for the extension of a 12" DIP sewage forcemain to connect to the City of Hialeah 24" force main.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Margaret Pace Park Shoreline Stabilization, City of Miami Transportation and Capital Improvements Department - Miami, Florida		PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) 2007
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
p. In charge of the quality control of the preparation of construction documents for stabilizing approximately 1,300 linear feet of the eastern shoreline of Margaret Pace Park located at 1775 N. Bayshore Drive in the City of Miami. In addition, prepared and processed a Miami-Dade County Department of Environmental Resources Management (DERM) Class-I Permit application as well as a Florida Department of Environmental Protection (FDEP) Joint Environmental Resource Permit (ERP) application.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Crandon Park Master Plan Environmental Permitting Due Diligence, Miami-Dade Parks and Recreational Department - Miami, Florida		PROFESSIONAL SERVICES 2006	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
q. In charge of the quality control of the development of the Crandon Park Master Plan Environmental Due Diligence project. The master plan calls for enhancing the shoreline of the park by increasing the recreational potential of this area. The master plan implemented the recreational enhancements of the shoreline drop-off areas north and south of the attached sand bar. The enhancements to the shoreline were accomplished by placement of sand to shallow the existing north and south drop-off areas and creating an artificial reef snorkeling area in the south drop-off area.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
City of Miami Pavement Rehabilitation, City of Miami Public Works Department - Miami, Florida		PROFESSIONAL SERVICES 2004	CONSTRUCTION (<i>if applicable</i>) 2005
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
r. Quality control and Principal in Charge for pavement evaluation and design of improvements of 2.4 miles of residential subdivision streets. This project involved the demolition of the asphalt and limerock base of 14 sites and reconstruction. Directed the preparation of plan and profile plans depicting pavement resurfacing, reconstruction, regrading, swale reconstruction, pavement marking, signage and traffic control. Coordinated the preparation of specifications and engineer's opinions of probable construction costs.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
YY-1 STATE SCHOOL (Jorge Mas Canosa Middle School) Design/Build Project, Miami-Dade County Public Schools - Miami, Florida		PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) 2008
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
a. Principal Engineer in charge of the design, permitting and construction management for the proposed civil infrastructure design of this Design/Build project. Responsibilities include overseeing the production of Onsite and Offsite Paving, Grading and Drainage improvements required, including design of SW 144th Street from SW 157th Avenue to SW 160th Avenue to include roadway widening, new bike lanes and drainage improvements in conformance with Miami Dade County Public Works Department and DERM requirements and preparation of onsite stormwater management calculations for the 100, 25 and 10 year storm events consistent with DERM and SFWMD requirements.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Gabriel Milian, P.E.		Project Manager		a. TOTAL	b. WITH CURRENT FIRM
				16	16
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering; M.S. Environmental Engineering			Florida Professional Engineer No. 65927		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
ENVISION Sustainability Professional #25509, XP SWMM Certified, Young Engineer of the Year 2007 Miami Dade Branch of the American Society of Civil Engineers					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
CDWWTP Stormwater Master Plan - Miami-Dade Water and Sewer Department - Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2016	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a. Project Manager responsible for all work related to master planning, hydraulic modeling and regulatory process assistance that was provided to Miami-Dade Water and Sewer Department for this project. The MSA Team prepared conceptual design for the stormwater system, hydraulic modeling to size the stormwater conveyance system and drainage pump stations, documentation and design data as required to support approvals from governmental authorities that have jurisdiction over the Project. One of the tasks involved with the master plan was developing a decision matrix for the various alternatives. The decision matrix of the alternatives for the stormwater system included ranking by cost, constructability and by ISI Envision Score so as to give them a comparison to make their decision.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Miami International Airport Water Utilities Master Plan, Miami Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2016	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b. Project Manager in charge of overseeing all work related to the development and update of Water Distribution System Master Plan for the Miami International Airport (MIA). Work included Potable Water System Analysis, Hydraulic Analysis of the MIA Water Transmission and Distribution Network using Water CAD, as well as services to the Consultant for preparation of the Water System Hydraulic Section of the Master Plan Report.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Opa-Locka Airport – Water Master Plan - Miami-Dade Aviation Department – Opa-Locka, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2007	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c. Project Manager responsible for the development of the Water-Cad model used to analyze the Airport’s water distribution system. Collected as-built data as well as field data to assemble the model and used the model to evaluate the performance of the existing system considering the present water demands. Also, utilized the model to recommend improvements to the existing system so that the future built-out condition and water demands of the airport can be met. The results and recommendations were compiled and presented to the Aviation Department is a document entitled “Opa-Locka Airport – Water Master Plan.”					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Opa-Locka Airport Sewer Master Plan, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2007	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d. Project Manager responsible for the development of the Sewer-Cad model used to analyze the Airport’s sewer collection and transmission system. Collected as-built data as well as field data to assemble the model and used the model to evaluate the performance of the existing system considering the present sewage loading. Also, utilized the model to recommend improvements to the existing system so that the future built-out condition and sewer demands of the airport can be met. The results and recommendations were compiled and presented to the Aviation Department is a document entitled “Opa-Locka Airport – Sewer Master Plan.”					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
NW 97th Avenue Roadway Improvements, Prologis – Hialeah, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2014	2016		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e. Project Manager responsible for the design of a new 1.5-mile segment of NW 97th Avenue from NW 154th Street to the new Prologis 40-acre development. Duties included stormwater management analysis, roadway paving, grading, drainage, signage, markings, designs consistent with Miami-Dade Public Works, RER – Water Control, SFWMD, Basin B and Western C-9 Basin Cut & Fill Criteria. Prepared and obtained SFWMD E.R.P. and all other required local and state permits.					

(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Our Lady of Guadalupe & San Juan Diego Parish Development, City of Doral, FL, Archdiocese of Miami - Miami, Florida		PROFESSIONAL SERVICES 2014	CONSTRUCTION (if applicable) 2014
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
a.	Senior Project Engineer for the design of all civil infrastructure required for the new 7 acre catholic church development in the City of Doral, including Paving Grading Drainage, Traffic Signage & Markings, Water Distribution System Improvements, Gravity Sewer, Sewage Lift Station and forcemain, Two culvert crossings of adjacent county canals, design of new (relocated) water control sluice gate on the NW 25th Street canal, offsite roadway improvements and securing all related civil and environmental permits (SFWMD E.R.P; USACE-Dredge and Fill, RER-Class IV, Class III Permits, MDWASD, Fire, HRS, RER-Wastewater and Water Supply, City of Doral Public Works)and City of Doral approvals. Participation during construction phase of the project (Construction meetings, Shop drawing reviews, construction observations, NPDES compliance inspections, Project Close –out and certifications.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Tree Island Park Master Plan, Miami-Dade County Park, Recreation and Open Spaces Department - Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
a.	Project Manager responsible for overseeing the work related to the civil and environmental engineering services that are being provided to the MDCPROS. MSA is responsible for the civil infrastructure and environmental planning, conceptual design & permitting for the 120-acre park. In addition, MSA is in charge of coordinating onsite/offsite stormwater management computations, grading, drainage plans, wetlands delineation, environmental permits and cost estimates.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Road Reconstruction, Drainage Design & Construction Management for 14-Separate Sites, City of Miami – Miami, Florida		PROFESSIONAL SERVICES 2004	CONSTRUCTION (if applicable) 2005
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
b.	Project Manager responsible for overseeing all work related to the pavement evaluation, recommendation & design of improvements of 2.4 miles of residential subdivision streets. This project entailed the demolition of the asphalt & limerock base of 14 sites and reconstruction. Complete plan and profile plans depicting pavement resurfacing, reconstruction, regrading, swale reconstruction, pavement marking, signage and traffic control were prepared. MSA also provided specifications and engineer's opinion of probable construction cost. In addition MSA assisted during the construction phase of the project.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Trade Shops Facility Design/Build, Miami, Florida, Miami-Dade County GSA – Miami, Florida		PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) 2010
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
c.	Project Manager in charge of design, permitting and construction of the water distribution, sewage collection and storm water management systems required for the new 100,000 square foot GSA facility. (1st LEED Certified Miami Dade County Owned Facility). Satisfied requisite Civil infrastructure, environmental permits, SWPPP and NPDES and LEED requirements to comply with state/local requirements.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
New West Lot Parking Garage and Office Building Facility - Miami, Florida, Miami Dade County GSA - Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
d.	QA/QC Manager responsible for overseeing all work related to the civil engineering services for the Miami-Dade County GSA New West Lot parking garage and office building facility project. (2nd LEED Certified Miami Dade County Owned Facility). Services included the preparation of civil infrastructure constructions drawings, technical specifications and provided regulatory process and construction phase assistance. Specific services included: Preliminary Engineering, Final Design of new 12 INCH D.I.P. watermain extension, Design of new 8 INCH P.V.C. gravity sewers. Design of: Paving, Grading, Drainage, Drainage wells, LEED compliant civil infrastructure, Traffic Signage & Pavement Markings.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Margaret Pace Park Shoreline Stabilization - City of Miami Transportation and Capital Improvements Department – Miami, Florida		PROFESSIONAL SERVICES 2007	CONSTRUCTION (if applicable) 2007
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
e.	Project Engineer responsible for the preparation of construction documents for stabilizing approximately 1,300 linear feet of the eastern shoreline of Margaret Pace Park located at 1775 N. Bayshore Drive in the City of Miami. In addition, prepared and processed a Miami-Dade County Department of Environmental Resources Management (DERM) Class-I Permit application as well as a Florida Department of Environmental Protection (FDEP) Joint Environmental Resource Permit (ERP) application.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
Coral Gables (SFWMD C-3) Canal Dredging / Restoration Project, City of Coral Gables Public Works Department– Miami, Florida		PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) 2012
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
f.			

Senior Engineer for the C-3 Canal (Coral Gables Waterway) Restoration project. In charge of coordinating and managing the performance of soil sampling and testing. Coordinated the preparation of design plans. Assisted the City of Coral Gables in obtaining approvals from regulatory agencies and in the permitting application process. Organized and assisted the various subaqueous inspections performed. Directed the preparation of construction reports.

(1) TITLE AND LOCATION (<i>City and State</i>) Pump Station Nos. 862, 863, 1003, 1009, 372, 108, 177, 795, and 1233, Miami-Dade Water and Sewer Department - Miami, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION (<i>if applicable</i>) 2013

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE Check if performed with current firm

Senior Engineer for various sanitary sewer pump station upgrade projects for the Miami-Dade Water and Sewer Department (MDWASD). These projects include the retrofit of the upgraded pump, station reconfiguration from wet-dry to submersible systems, yard piping modifications, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost, construction administration and system certifications.

(1) TITLE AND LOCATION (<i>City and State</i>) Miami River Greenways, Miami-Dade County Public Works – Miami, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (<i>if applicable</i>) 2006

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE Check if performed with current firm

h. Project Engineer for the civil engineering services provided to the Miami River Greenways project. MSA was responsible for the permitting process of this project which entailed the connection of six (6) sites with walkways along the Miami River and securing environmental permits from USACOE, DERM and FDEP.

(1) TITLE AND LOCATION (<i>City and State</i>) C-100 Stormwater Master Plan, Miami-Dade County Department of Environmental Resource Management – Miami, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (<i>if applicable</i>) N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE Check if performed with current firm

i. Senior Engineer responsible for developing the SWMM model to analyze the conveyance capacity of the C-100 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas.

(1) TITLE AND LOCATION (<i>City and State</i>) C-7 Stormwater Master Plan, Miami-Dade County Department of Environmental Resource Management – Miami, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (<i>if applicable</i>) N/A

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE Check if performed with current firm

j. Project Engineer responsible for developing the SWMM model to analyze the conveyance capacity of the C-7 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas.

(1) TITLE AND LOCATION (<i>City and State</i>) Shoma Home Development, Inc. - Old Cutler Estates: Sewage Collection, Transmission & Regional Pump Station – Miami, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004	CONSTRUCTION (<i>if applicable</i>) 2004

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE Check if performed with current firm

k. Project Manager for the design of the sanitary sewage collection & transmission system composed of approximately 3,000 LF of 8" diameter gravity sewers, a MDWASD donation sanitary sewage pumping station & approximately 1,000 LF of 8" forcemains. MSA obtained the necessary regulatory permits associated with the civil engineering infrastructure and provided construction phase services. In addition, designed the surface water management & drainage system for this 240-acre land development project that abuts Biscayne Bay. The system is composed of exfiltration trenches for water quality purposes with outfalls to a 30-acre lake on site. MSA also designed the water distribution system which is composed of approximately 3,000 LF of 12" diameter water mains.

(1) TITLE AND LOCATION (<i>City and State</i>) Bellaggio Residential Subdivision, Shoma Home Development, Inc. – Miami, Florida	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004	CONSTRUCTION (<i>if applicable</i>) 2006

(3) BRIEF DESCRIPTION (*Brief scope, size, cost, etc.*) AND SPECIFIC ROLE Check if performed with current firm

l. Responsible for coordinating the design of plans for the Bellaggio residential subdivision project. This 75-acre project located in northwest Miami-Dade County at approximately NW 97 Avenue and NW 138 Street entailed the design of a 12 acre lake water management system capable of servicing the 10-year 24-hour, the 25-year and the 100-year 24-hour storm events. Complete on-site paving, grading and drainage plans were prepared along with second order drainage calculations and pavement marking and striping plans. The off-site roadway improvements consist of the design of approximately one half mile of half right-of-way construction for NW 97 Avenue (a section line road) from NW 138 Street to NW 146 Street. The typical section consisted of a median and two 11' foot lanes with associated curb and gutter and sidewalk. In addition, the improvements for NW 148 Street from NW 97 Avenue to the west right-of-way line of Interstate-75 are being prepared. These improvements entailed construction of one half mile of a two-way two-lane roadway with curb and gutter and sidewalk.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Julio Menache		QA/QC Manager		a. TOTAL	b. WITH CURRENT FIRM
				31	22
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering			Florida E.I. No. 1088ET188		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
American Society of Civil Engineers, American Public Works Association, American Water Works Association					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Opa-Locka Airport - Water and Sewer Master Plan, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2007		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a. QA/QC Manager responsible for the Opa-Locka Airport Water and Sanitary Sewer System Evaluation and Master Plan. Including the evaluation and hydraulic modeling of the existing water distribution, sewer force mains and pump station network within the airport and recommended repairs and improvements based on projected future expansion. Conducted quality control reviews, cost analysis of the water and sewer master plans, design criteria and conceptual layout of the future gravity, force main and pumping systems for the airport.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
PHASE I Water and Sewer Improvements, H.A.R.B, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2008		2008	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b. Project Manager responsible for managing the design, specifications and permitting of approximately 20,000 LF. Of large diameter transmission water mains, 7,000 LF. Of 12-inch sewage force mains, 3000 LF of 8 to 12-inch gravity sewer mains, service laterals and 2 MDWASD Regional Sewage Pump Stations with Emergency Generators and Fueling facilities to serve future development(s) within Homestead Air Reserve Base (HARB).					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Pump Station Improvement Contract (E13-WASD-03), Miami-Dade Water & Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2014 - Ongoing		Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c. Project Manager under Contract (E13-WASD-03) between MD-WASD and MSA for the design of requisite improvements to multiple MD-WASD sewage pump stations and forcemains out of N.A.P.O.T. compliance and/or in need of rehabilitation to remediate operational and maintenance problems. Mr. Menache was in charge of managing all aspects of each project for the MSA team. Duties included Preparation, submittal and negotiations of fee proposal for each task order with MDWASD, Establish Master Project Schedule (BODR through Construction) coordinated with MDWASD and the design team, Validation of initial Engineering Report provided by MD-WASD, Preparation and submittal of monthly Project Progress/Status Reports to MDWASD including updated Master Project Schedule, Participation in design coordination meetings, Constructability Reviews/Pre-Bid/Pre-Construction Meetings coordinated with MDWASD and the design team, Perform Quality Control Reviews of Surveys/Geotechnical Reports/Design/Specifications/Engineering Computations/Cost Estimates prepared by the MSA Design team for adherence to Basis of Design and regulatory requirements. Representative assignments have included over 10 miles of sewage forcemains and 24 MDWASD pump stations.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Pine Island Pump Stations & Forcemain Improvements, The U.S. National Park Service – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2006		2006	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d. Project Manager responsible for directing the preparation of design and specifications for a new low-pressure sewage transmission and pumping system to include 4 master pump stations, 17 lift stations and 9,000 LF of low-pressure sewage force mains to serve the Everglades National Park Headquarters and Pine Island Housing facilities in Southwest Miami-Dade County.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
36-inch DIP Force Main Interceptor, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2008		2008	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e. Project Manager responsible for the analysis and design of approximately 19,000 LF of 36 inch DIP sewage force main in SW Miami Dade County, including design of a new Subaqueous Crossing of the SFWMD C1-W Canal, Jack & Bore crossing of the CSX Railroad Right of Way, Pipe Joint Restraint Analysis and Connections within FDOT Right of Way in conformance with MDWASD, FDEP, SFWMD, DERM and FDOT requirements.					

(1) TITLE AND LOCATION (<i>City and State</i>) Epiphany Parish Campus Sewer Tie In, Archdiocese of Miami – Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2015 2016	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE f. Project Manager responsible for overseeing all work related to professional engineering services for the design, permitting support and construction administration services for sanitary sewer system improvements at the Epiphany Parish Campus, including 1,400 LF of P.V.C. gravity sewers; 2 pump stations, and 300 LF of P.V.C. sanitary force mains throughout the campus, as well of abandonment of the existing drainfield and septic tanks. Permitting (MD-RER/FDEP/BLDG DEPT), bidding and constructions services were also provided.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) City of South Miami Water Distribution System Improvements, – South Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2007 2008	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE g. Project Manager for all professional engineering services for the preparation of construction documents for Water Distribution System Improvements to serve residential subdivisions within the city. These services included design drawings, specifications, cost estimates for 3,500 LF of new 8-inch D.I.P. watermain extensions and related appurtenances (water services/meters/surface restoration), public involvement, permitting through FDEP, MDWASD, DERM and HRS plus construction phase services and system certification to regulatory agencies.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Member - Management Training Program, Miami-Dade Office of Capital Improvements (O.C.I.) – Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2012 N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE h. Selected by O.C.I. to represent the private engineering industry in presentations of the A/E Perspective to participating Design/Construction managers of various County Departments. Mr. Menache's topic is on the Importance of Site Specific Civil/Environmental Due Diligence for successful development of private/public sector projects.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Busway Extension, Segment 2, Miami Florida, Miami-Dade County Transit Agency – Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2003 2008	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE i. Deputy Project Manager and Quality Assurance Manager responsible for the preparation of final design of a 6.5-mile Busway Extension from SW 264th Street to SW 344th Street in Florida City and an additional 1.1-mile extension of the bicycle path from SW 344th Street to US-1 (South Dixie Highway). Responsibilities included acting as Quality Assurance Manager for the project following the guidelines established by the Federal Transit Administration (FTA), performing quality control and consistency reviews, Client Manager to MDT on all technical and contractual matters, coordinated project budget and schedule control and conducted over 15 public hearings and 6 Design Workshops before the Citizens Advisory Council (CAC) specifically established for this project.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Everglades Construction Project, South Florida Water Management District – Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2002 2002	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE j. Sr Engineer responsible for the design of Stormwater Treatment Area No. 5 (STA-5), Stormwater Treatment Area No. 6 (STA-6), and certain related areas of the District's Everglades Construction Project. Participated in the review of STA designs to determine the dewatering requirements for each phase of work. Prepared overall site plans indicating the areas of possible dewatering, proximity to other dewatering sites, possible impound areas & adjacent land use and other local physical features. Prepared a recommended construction sequence for STA-5 & STA-6 based of 60% design plans. Prepared a Detailed Opinion of Construction Cost for STA-5, the STA-5 Discharge Canal, the STA-5 Outlet Canal, and STA-6.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Snapper Creek Drainage & Traffic Improvements, City of South Miami Public Works Department - South Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2007 2007	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE k. Project Manager for the preparation of construction documents for the construction of traffic calming and roadway and drainage improvements to SW 84th Street, SW 85th Street, SW 59th Avenue and SW 58th Avenue. Design Services include new Traffic Roundabouts at SW 84th Street and SW 85th Streets conforming to MDCounty Traffic Section requirements. As project manager, Mr. Menache performs QC Reviews of the construction drawings and specifications and cost estimates as well as conducting Public meetings with the area residents and merchants affected by the new project.	<input checked="" type="checkbox"/> Check if performed with current firm	

(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Coral Gables (SFWMD C-3) Canal Dredging / Restoration Project, City of Coral Gables Public Works Department– Miami, Florida		PROFESSIONAL SERVICES 2011	CONSTRUCTION (<i>if applicable</i>) 2012
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
l. QA/QC Manager for the C-3 Canal (Coral Gables Waterway) Restoration project. In charge of coordinating and managing the performance of soil sampling and testing. Coordinated the preparation of design plans with the MSA technical staff and city project manager. Assisted the City of Coral Gables in obtaining approvals from regulatory agencies and in the permitting application process. Organized and assisted the various subaqueous inspections performed.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Roadway Reconstruction Design, Permitting & Construction Management for 14-Separate Sites, City of Miami C.I.P. – Miami, Florida		PROFESSIONAL SERVICES 2004	CONSTRUCTION (<i>if applicable</i>) 2005
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
m. Project Manager responsible for overseeing all work related to the pavement evaluation, recommendation & design of improvements of 2.4 miles of residential subdivision streets. This project entailed the demolition of the asphalt & limerock base of 14 sites and reconstruction. Complete plan and profile plans depicting pavement resurfacing, reconstruction, regrading, swale reconstruction, pavement marking, signage and traffic control were prepared. MSA also provided specifications and engineer's opinion of probable construction cost. In addition MSA assisted during the construction phase of the project.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
SW 216th Street (Hainlin Mill Drive) Improvements, Miami Dade Public Works Department - Miami, Florida		PROFESSIONAL SERVICES 2016	CONSTRUCTION (<i>if applicable</i>) Ongoing
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
n. Project Manager responsible for the roadway improvements to SW 216th Street from SW 127th Ave to the Florida Turnpike (approximately 2.1 miles). Services included drainage/stormwater management, pavement markings & traffic signage, preparation of drainage/stormwater management calculations, quantity take-offs and Opinion of Costs for all drainage and pavement/markings items, and preparation and submittal of a Standard General – Surface Water Management Permit.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Trade Shops Facility Design/Build, Miami-Dade County GSA - Miami, Florida		PROFESSIONAL SERVICES 2010	CONSTRUCTION (<i>if applicable</i>) 2010
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
o. Client/Contract Manager in charge of design, permitting and construction of the water distribution, sewage collection and storm water management systems required for the new 100,000 square foot GSA facility. (1st LEED Certified Miami Dade County Owned Facility). Satisfied requisite Civil infrastructure, environmental permits, SWPPP and NPDES and LEED requirements to comply with state/local requirements.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
New West Lot Parking Garage and Office Building Facility - Miami, Florida, Miami Dade County GSA - Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (<i>if applicable</i>) 2012
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
p. QA/QC Manager responsible for overseeing all work related to the civil engineering services for the Miami-Dade County GSA New West Lot parking garage and office building facility project. (2nd LEED Certified Miami Dade County Owned Facility). Services included the preparation of civil infrastructure constructions drawings, technical specifications and provided regulatory process and construction phase assistance. Specific services included: Preliminary Engineering, Final Design of new 12 INCH D.I.P. watermain extension, Design of new 8 INCH P.V.C. gravity sewers. Design of: Paving, Grading, Drainage, Drainage wells, LEED compliant civil infrastructure, Traffic Signage & Pavement Markings.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Our Lady of Guadalupe & San Juan Diego Parish Development, City of Doral, FL, Archdiocese of Miami - Miami, Florida		PROFESSIONAL SERVICES 2014	CONSTRUCTION (<i>if applicable</i>) 2014
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
q. Senior Project Manager in charge of design of all civil infrastructure required for the new 7 acre catholic church development in the City of Doral, including Paving Grading Drainage, Traffic Signage & Markings, Water Distribution System Improvements, Gravity Sewer, Sewage Lift Station and forcemain, Two culvert crossings of adjacent county canals, design of new (relocated) water control sluice gate on the NW 25th Street canal, offsite roadway improvements and securing all related civil and environmental permits (SFWMD E.R.P; USACE-Dredge and Fill, RER-Class IV, Class III Permits, MDWASD, Fire, HRS, RER-Wastewater and Water Supply, City of Doral Public Works)and City of Doral approvals. Participation during construction phase of the project (Construction meetings, Shop drawing reviews, construction observations, NPDES compliance inspections, Project Close –out and certifications.			

<p>(1) TITLE AND LOCATION <i>(City and State)</i></p> <p>YY-1 STATE SCHOOL (Jorge Mas Canosa Middle School) Design/Build Project, Miami-Dade County Public Schools– Miami, Florida</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>Project Manager in charge of the design, permitting and construction management for the proposed civil infrastructure design of this Design/Build project. Responsibilities include overseeing the production of Onsite and Offsite Paving, Grading and Drainage improvements required, including design of SW 144th Street from SW 157th Avenue to SW 160th Avenue to include roadway widening , new bike lanes and drainage improvements in conformance with Miami Dade County Public Works Department and DERM requirements and preparation of onsite stormwater management calculations for the 100, 25 and 10 year storm events consistent with DERM and SFWMD requirements.</p>	<p>(2) YEAR COMPLETED</p> <table border="1"> <tr> <td data-bbox="1084 90 1297 184">PROFESSIONAL SERVICES</td> <td data-bbox="1297 90 1529 184">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td data-bbox="1084 184 1297 241" style="text-align: center;">2007</td> <td data-bbox="1297 184 1529 241" style="text-align: center;">2008</td> </tr> </table> <p><input checked="" type="checkbox"/> Check if performed with current firm</p>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2007	2008
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
2007	2008					
<p>(1) TITLE AND LOCATION <i>(City and State)</i></p> <p>West Homestead K-8 School Improvements, Miami-Dade County Parks, Recreation, and Open Spaces Department– Miami, Florida</p> <p>(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE</p> <p>Senior Project Manager responsible for overseeing all work related to the civil engineering services of the Building Code Consultant for improvements to the West Homestead K-8 School, including technical review of plans and calculations prepared by the Civil Engineer of Record for conformance with regulatory requirements, and construction inspections of approved civil infrastructure systems for compliance with approved construction drawings and specifications.</p>	<p>(2) YEAR COMPLETED</p> <table border="1"> <tr> <td data-bbox="1084 451 1297 546">PROFESSIONAL SERVICES</td> <td data-bbox="1297 451 1529 546">CONSTRUCTION <i>(if applicable)</i></td> </tr> <tr> <td data-bbox="1084 546 1297 602" style="text-align: center;">2017</td> <td data-bbox="1297 546 1529 602" style="text-align: center;">2018</td> </tr> </table> <p><input checked="" type="checkbox"/> Check if performed with current firm</p>		PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>	2017	2018
PROFESSIONAL SERVICES	CONSTRUCTION <i>(if applicable)</i>					
2017	2018					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Deborah Swain		Public Involvement		a. TOTAL	b. WITH CURRENT FIRM
				42	30
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Accounting					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
Citizens for a Better South Florida - Board of Directors – Treasurer, Miami-Dade A&E Society - Founding President, Bike Walk Coral Gables Advisory Board, City of Coral Gables Parks Advisory Board, City of Coral Gables Transportation Advisory Board (past), City of Coral Gables Disability Affairs Board (past), Miami-Dade County Transportation Aesthetic Review Committee, Miami-Dade County Professional Services Task Force, Miami-Dade County SBE-AE Advisory Board, Miami-Dade County Safer People Safer Streets Local Action Team (past)					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Reuse Feasibility Study, Stakeholders and Public Workshops, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2017	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a. Project Manager - Facilitated, coordinated, and prepared all meeting materials for meetings with targeted stakeholders, including regulatory agencies, potential major users and other major stakeholders. Specific stakeholder meetings were held with FDEP, RER-DERM, Biscayne National Park, Everglades National Park, MDPROS, MDAD, City of Homestead, SFWMD, DSWM, Farm Bureau, FIU, American Dream, Graham Properties, FPL, and Zoo Miami. Additionally, Ms. Swain coordinated and conducted two large public stakeholder workshops to share the proposed reuse alternatives and to obtain input. Minutes from each meeting were prepared by MSA, and incorporated into the final Reuse Feasibility Study.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Alternative Water Supply Master Plan, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2009	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b. Project Manager responsible for directing the firms work efforts on several tasks as a subconsultant on the Water Master Plan Team. Primary responsibilities include overseeing development of the monitoring plan for the Coastal Wetlands Rehydration Demonstration Project, research and investigation of large scale aquifer recharge opportunities in South Miami-Dade County and in the Bird Drive Basin, and serve in the lead role in planning and facilitating large-scale stakeholder meetings.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Water and Sewer Retail and Satellite City Rate Study, City of Miami Beach – Miami Beach, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2015	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c. Project Manager Responsible for conducting a detailed rate study for the water and sewer utility. The work included determining the cost to provide water and sewer service by analyzing of operating, maintenance and administrative cost, debt service, renewal and replacement of existing infrastructure and capital expenditures, forecasting costs over a five-year period, determining revenue required and resulting rates, and presenting the findings to the Finance & Citywide Projects Committee and to the full City Commission.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Wastewater Reuse Feasibility Study and Alternative Water Supply Plan, Miami-Dade County Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2007	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d. Project Manager - Directed the financial component of the Reuse Feasibility and Alternative Water Supply Study, including an analysis of the impact on user rates and impact and/or mitigation fees. Directed the public and regulator input workshops by providing facilitation and coordination. Evaluated potential major users by reviewing current large potable water customers, obtaining input from Miami-Dade Parks and Recreation, and other potential user groups.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Water and Sewer Revenue Bonds, City of Hialeah Water and Sewers Department – Hialeah, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2011	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e. Project Manager responsible for directing the work related to the services provided to the City of Hialeah Water and Sewers Department. MSA performed an assessment of the City's financial and operational condition of its water and wastewater system in support of its planned issuance of approx. \$50 million in Water and Sewer Revenue Bonds, Series 2011. Services provided included an evaluation of the systems owned and operated by the city of Hialeah; an analysis of the records and capital improvement programs of the City's department of Water and Sewers, physical inspection of certain water and sewer system facilities, and coordination with rating agencies, counsel, and bond purchasers.					

(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Financial Feasibility for New RO Water Treatment Plant, City of Hialeah Water and Sewers Department – Hialeah, Florida	PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
f. Project Manager Responsible for conducting a financial analysis to determine the feasibility of constructing an Upper Floridian Aquifer reverse osmosis water treatment plant. Analyzed various scenarios considering different phasing schedules and several funding sources. Results will be used by the City to determine whether they will proceed with the construction of the facility, and the appropriate phasing.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Water and Wastewater Master Plan, City of Ft. Lauderdale Water and Sewer Department – Ft. Lauderdale, Florida	PROFESSIONAL SERVICES 2010	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
g. Project Manager - Directed the financial component of the City's Water and Wastewater Master Plan evaluating and recommending a combination of user fees, connection charges, bonds and grants.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Waterworks 2011, City of Ft. Lauderdale Water and Sewer Department, Ft. Lauderdale Florida	PROFESSIONAL SERVICES 2011	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
h. Project Manager - Directing the financial component of the City's Water and Wastewater ten-year \$700 million Capital Program (Waterworks 2011). The financial plan includes a combination of user fees, connection charges, capital expansions fees, revenue bonds and state revolving fund bonds, and grants. Directed the development of rates, the development and implementation of connection fees, and the development and implementation of miscellaneous charges and capital expansion fees.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Bond Financial Feasibility, City of Ft. Lauderdale Water and Sewer Department, Ft. Lauderdale Florida	PROFESSIONAL SERVICES 2003 and 2008	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
i. Project Manager - Directed the financial component of the City of Fort Lauderdale Water and Sewer Department's Bond Feasibility Report in support of the issuance of approximately \$90 million Revenue Bonds (2003) and \$155 million (2008).		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Bond Feasibility, Broward County Water and Sewer Department – Broward, Florida	PROFESSIONAL SERVICES 2003 and 2008	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
j. Project Manager - Directed the financial component of Broward County Water and Sewer Department's Bond Feasibility Report in support of the issuance of approximately \$100 million Revenue Bonds (2003) and \$200 million (2008).		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Annual Report, Broward County Water and Sewer Department – Broward, Florida	PROFESSIONAL SERVICES Annually from 2005-2012	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
k. Project Manager - Directed the preparation of Broward County Water and Wastewater Engineer's Annual Report in compliance with Bond Resolutions. The water and wastewater systems annual report for the Broward County Office of Environmental Services (BCOES) presented engineering and financial information regarding the water and wastewater systems.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Efficiency and Competitiveness Analysis, Miami-Dade Water and Sewer Department – Miami, Florida	PROFESSIONAL SERVICES 2004	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
l. Project Manager - Performed financial analysis to aid in determination of competitiveness of Miami-Dade Water & Sewer Department. Coordinated and conducted thirty employee workshops to solicit input from employees to become more efficient. Coordinated and conducted process improvement team workshops to develop implementation strategies.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Contract Management – Post Construction Contract Analysis & Forensic Accounting Services, Miami Dade County Water & Sewer Department – Miami, Florida	PROFESSIONAL SERVICES 2003	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
m. Lead Senior Consultant - Participated on project for Miami-Dade County, requiring investigation, analysis, financial determination, and preparation of possible litigation related to the Water and Sewer Department's Pump Station Improvement Program (PSIP). The project required reviewing contracts, payments, invoices, change orders and other documentation to determine potential overpayment under select contracts.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Jorge Torres		Senior Engineer		a. TOTAL	b. WITH CURRENT FIRM
				18	13
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
Preparation course for Engineering in Training (EIT) exam for the State of Florida—South Miami High School—2005, Miami, FL Experienced in AutoCAD 2017 and Sap 2000					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
20-Acre Salmon Farm – Phase 01, Atlantic Sapphire USA, LLC - Homestead, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2018	Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a. Senior Engineer responsible for the preparation of design drawings and technical specifications for the proposed development civil infrastructure and yard piping systems coordinated with the MSA design team and architectural, structural, mechanical, plumbing, electrical disciplines. Services included development of the final 20 acre Site Plan layout and geometry coordinated with Owner and Architect team, design of the Site Paving, Grading, Drainage, stormwater computations per SFWMD, FDEP, RER-Water Control Section requirements, Potable Water Distribution and Site Fire Protection Systems (2,700 LF), Raw water piping (12"-16") interconnecting 2 onsite Mid-Floridan (MF) wells and Raw water piping (16"-20") interconnecting 2 onsite Biscayne Aquifer (BA) wells and Process Wastewater (24"-30") piping from onsite process waste tank to offsite deep injection well and Design & Permitting of the (+/-4,000 lf) 2-lane Access Road from SW 217th Avenue the Salmon Farm site.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
70-Acre Warehouse Development, Prologis – Hialeah, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2014	Pending		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b. Responsible for all the work related to the civil engineering services for the development of a 70-acre warehouse to be bounded on the east by Interstate-75, on the south by NW 170th Street and on the west by NW 97th Avenue. Engineering services included on-site civil infrastructure design, on-site paving, grading and drainage system design; on-site water distribution system design, on-site sanitary sewer collection system, off-site civil infrastructure design, roadway improvements design, offsite water and sewage transmission system design, regulatory process assistance, and utility negotiations.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Tree Island Park Project, Miami-Dade County Parks, Recreation and Open Spaces Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2015	2016		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c. Senior engineer for the civil and environmental engineering services provided to the Miami-Dade County Parks and Recreation Department. Prepared and processed all environmental permits required to develop the 120-acre Tree Island Park located south of SW 10th Street between SW 149th Avenue and SW 147th Avenue, including SFWMD ERP, USACE Dredge & Fill, and DERM—Class IV permits.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Surface Parking Lot 1-A, City of Miami Beach – Miami Beach, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2015 - Ongoing	Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d. Senior Engineer for all engineering services to improve an existing public parking lot. These improvements included surveying, geotechnical investigations, site planning, design (paving, grading, drainage, landscape/irrigation, site lighting, drainage wells), permitting (City, DERM, FDEP), bidding, and construction phase services.					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Tree Island Park – Public Right of Way Improvements, Miami-Dade County Parks, Recreation and Open Spaces Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2019	Pending		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e. Senior Engineer for the civil and environmental engineering services provided to MDPROS for the design of roadway improvements within the existing public road rights of way directly adjacent to the Tree Island Park property (approximately 1.5 miles), including on-street parking, paving, grading, drainage, and permits (SFWMD, USACE, DERM, MDPWorks).					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
City of Miami Beach West 63rd Street Water Main Extension – Miami Beach, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2015	2015		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
f. Project Engineer responsible for the design and permitting of a 20-inch HDPE DR-11 Water Main Extension that included Horizontal Directional Drilling under the FDOT Bascule Bridge # 870613 along W 63rd Street in the City of Miami Beach					

g.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Scott-Carver Homes; Hope VI Redevelopment, Miami-Dade H.U.D. – Miami, Florida	PROFESSIONAL SERVICES 2012	CONSTRUCTION (<i>if applicable</i>) 2012
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
Project Engineer for the civil engineering work related to the development of the Scott-Carver Homes; Hope VI Redevelopment Project, a proposed phased residential development located in Miami-Dade County, Florida. Work on this project included coordination of preliminary environmental site assessment, civil design & master planning, permitting services and construction administration			
h.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Park Square at Doral, SHOMA Development Corporation – Miami, Florida	PROFESSIONAL SERVICES 2009	CONSTRUCTION (<i>if applicable</i>) 2009
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
Project engineer responsible for the design of a regional pump station, on-site Paving and Drainage, on-site and off-site extensions to the Water Distribution Service Plan, and sanitary sewer systems. Prepared applications for Miami-Dade Water and Sewer Department for Dry-Run and Final submittal for water and sewer facilities, DERM (sanitary sewer extensions), DERM Water Extension plan (WE permit), and Miami-Dade County for Dry-Run (water and sewer). Preparation and submittal of permit applications for Miami-Dade Water and Sewer Department for Dry-Run and Final submittal for water and sewer facilities, DERM (sanitary sewer extensions), DERM (water main extension), Dade County Public Health Unit (water main extension), DERM- Water extension plan (WE permit), Miami-Dade County for Dry-Run (water and sewer).			
i.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	ROWTP Connection with Raw Water System - Well Site #11 - Hialeah, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (<i>if applicable</i>) 2013
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
Project engineer in charge of all the work related to the professional engineering services provided to the City of Hialeah for the Design of Raw Water Transmission Main, Well Maintenance Pipeline and Well Site Development of the Well #11 System.			
j.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	Fontainebleau East/West, SHOMA Development Corporation – Miami, Florida	PROFESSIONAL SERVICES 2009	CONSTRUCTION (<i>if applicable</i>) 2011
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
Assisted on the preparation of onsite paving, grading and drainage system plans and calculations for the 100-acre residential subdivision located in Miami-Dade County, Florida. Mr. Torres was also in charge of preparing water distribution system plans and calculations as well as sanitary sewer collection system plans and calculations for both a gravity collection system and a private pump station system to serve the proposed development in accordance with the Miami Dade Water and Sewer Department (MDWASD) permitting criteria. Coordinated the preparation, execution and processing of permit applications through agencies having regulatory jurisdiction over this project.			
k.	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	RSMAS –Bioresearch Facility at University of Miami – Miami, Florida	PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) 2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
Project engineer for the quality control of the civil engineering services provided to the University of Miami RSMAS – Bioresearch facility project. Services included acquiring an Environmental Resource Permit (ERP) and Class-I Permit to fill the site of the future proposed Bio Research Facility at the University of Miami Rosenstiel School of Marine and Atmospheric Science.			
L	(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
	City of South Miami Water Distribution System Improvements, – South Miami, Florida	PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) 2008
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
Project Engineer for all professional engineering services for the preparation of construction documents for Water Distribution System Improvements to serve residential subdivisions within the city. These services included design drawings, specifications, cost estimates for 3,500 LF of new 8-inch D.I.P. watermain extensions and related appurtenances (water services/meters/surface restoration), public involvement, permitting through FDEP, MDWASD, DERM and HRS plus construction phase services and system certification to regulatory agencies.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Arnaldo Carrillo, PE		Senior Engineer		a. TOTAL	b. WITH CURRENT FIRM
				21	5
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering			Florida Professional Engineer No. 67532		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
American Society of Civil Engineers National Member, Water Environmental Federation National Member					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
SW 216th Street (Hainlin Mill Drive) Improvements, Miami Dade Public Works Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2016		Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a. Provided engineering services for the roadway improvements to SW 216th Street from SW 127th Ave to the Florida Turnpike (approximately 2.1 miles). Services included drainage/stormwater management, pavement markings & traffic signage, preparation of drainage/stormwater management calculations, quantity take-offs and Opinion of Costs for all drainage and pavement/markings items, and preparation and submittal of a Standard General – Surface Water Management Permit.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
South District Wastewater Treatment Plant (SDWWTP) As-Built Drawings Gap Analysis Development – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2015		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b. Senior Project Engineer responsible to assist CH2M in developing a plan of action to review existing “as-built” records and field data to identify any “data gaps” on existing buildings, major process units, and underground utilities; and to provide recommendations for completing a comprehensive “as-built” record for the SDWWTP. The outcome of this task is to have a comprehensive database of available information, and a set of recommendations for work needed to develop a complete set of “as-built” records.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Miami Dade Police Academy Building Design/Build, Miami-Dade Police Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2017		Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c. Senior Project Engineer responsible for the Civil Engineering design+ work for the design/build services for a new Miami Dade Police Department Academy Building located at 9601 NW 58th Street. The project included the design of a new 12-inch D.I.P. watermain extension (±1,300 LF), gravity sewer main (±300 LF), and paving, grading, drainage system, permitting through MDWASD, Fire Dept., Health Dept., and RER Water/Wastewater Sections.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Dadeland Cove Residential Community, KW Property Management & Consulting, Inc. - Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2016		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d. Project Engineer responsible to prepare construction documents for implementation of parking lot paving and drainage improvements within the Dadeland Cove Residential Community (“Dadeland Cove”) in South Miami Dade County.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Miami International Airport Fuel Trucks Parking Facility, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2014		2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e. Senior Project Engineer responsible for developing a Project Book for a proposed fuel trucks parking lot at the Miami International Airport. Managed the preparation of a document, exhibits, preliminary quantity and cost estimates, as well as coordinating meetings with MDAD authorities in order to finalize tasks.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Drainage Report; Eller Drive - Florida Department of Transportation District 4		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2014		2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
f. As part of the FDOT’s Interchange Design, Mr. Carrillo served as Project Engineer performing drainage design. The work included control structures and pipe design, dry detention ponds, swales, hydrodynamic analysis and structural analysis to determine water elevations at swales and ponds. Mr. Carrillo utilized modeling software such as Advanced Interconnected Pond Routing (AdICPR) to optimal pump rates for design enhancements and modifications.					

(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
PARCEL C – Parking Lot Engineering Assessment Report, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES 2014	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
g. Senior Project Engineer responsible for conducting a preliminary due diligence investigation to find out the causes of sink holes and deterioration of pavement surrounding the existing stormwater system, giving recommendations on how to resolve all problems.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
PARCEL D – Parking Lot Engineering Assessment Report, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES 2015	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
h. Senior Project Engineer responsible for conducting a preliminary due diligence investigation to find out the causes of sink holes and deterioration of pavement surrounding the existing stormwater system, giving recommendations on how to resolve all problems.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
SWPPP - South District Wastewater Treatment Plant, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES 2018	CONSTRUCTION (<i>if applicable</i>) N/A
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
i. Mr. Carrillo served as Project Engineer responsible for the civil engineering services associated with the implementation of a Stormwater Pollution Prevention Plan (SWPPP) for the construction modifications of the 225 MGD treatment plant. The SWPPP included silt fence with bay hailes and turbidity barrier, and required extensive coordination with DERM, WASD and SFWMD.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Drainage Report – SR-5 / Brickell Avenue (from South of SE 25th Rd. to SE 4th St.) Florida Department of Transportation District 6 – Miami, Florida		PROFESSIONAL SERVICES 2016	CONSTRUCTION (<i>if applicable</i>) 2016
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm	
j. Project engineer collaborating in the design of a pump station in order to alleviate flooding events at SR-5 (Brickell Avenue). The work included concrete pavement design, maintenance of traffic, access management, signalization and excessive queues associated with the operations of movable bridge openings at the northern end of the project. Public involvement is also included as the Brickell Avenue project corridor consisted of multi-purpose commercial and high-density residential housing, and high-rise buildings.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
North Corridor Metrorail Extension - Miami-Dade Transit – Miami, Florida		PROFESSIONAL SERVICES 2018	CONSTRUCTION (<i>if applicable</i>) TBD
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm	
k. The project entailed the engineering for the North Corridor Metrorail Extension that included the existing Metrorail (elevated, heavy rail) line of approximately 10 miles that to operate along the NW 27th Avenue corridor from approximately the existing Martin Luther King Metrorail Station to the Miami-Dade/Broward County line. A section of this elevated rail project transverse two (2) stormwater canals (one owned by DERM, the other owned by SFWMD) where 2 structural columns of the elevated guideway were proposed to be constructed within the canal zone. Mr. Carrillo served as project civil engineer responsible for the hydrology analysis to determine surface water grading line impacts and upstream effects of the column's presence within the canals. He utilized water simulation software such as HEC-RAS to determine the grade line differences.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Storm Treatment Area – Nubbin Slough – Hydrology Analysis – ACCELER8 Program - South Florida Water Management District - West Palm Beach, Florida		PROFESSIONAL SERVICES 2014	CONSTRUCTION (<i>if applicable</i>) 2015
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm	
l. As part of the SFWMD's multi-million-dollar ACCELER8 Program to restoration the Florida Everglades, Mr. Carrillo served as project engineer performing hydrology analysis of a new levee system designed and constructed by others for the surrounding reservoir of this treatment area. The work included a Seepage analysis, slope analysis, hydrodynamic analysis and shallow wave analysis to determine enhancements or corrective measures. Mr. Carrillo utilized modeling software such as XP-STABLE, SEEP 2D and MODFloridaOW to recommend design enhancements and modifications. The ACCELER8 program is a commitment by a federal/state/local partnership to expedite the progress of eight restoration projects that will revitalize the ecosystem. The work included the construction of canals, levees, flow control structures, degrading of existing roads and berms, and filling of existing ditches and canals.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Kevin Young, E.I.		Project Engineer		a. TOTAL	b. WITH CURRENT FIRM
				7	5
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering			Florida E.I. #1100016823		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
American Society of Civil Engineers, Institute of Transportation Engineers, National Fire Prevention Association, National Society of Professional Engineers					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Pump Station Improvement Contract (E13-WASD-03), Miami-Dade Water & Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2014 - Ongoing		Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>a. Senior Engineer under Contract (E06-WASD-01 and E13-WASD-03) between MD-WASD and MSA for the design of requisite improvements to multiple MD-WASD sewage pump stations and forcemains out of N.A.P.O.T. compliance and/or in need of rehabilitation to remediate operational and maintenance problems. Mr. Young was lead designer and coordinator of each project for the MSA team. Duties included Establish Master Project Schedule (BODR through Construction) coordinated with MDWASD and the design team, Validation of initial Engineering Report provided by MD-WASD, Preparation and submittal of monthly Project Progress/Status Reports to MDWASD including updated Master Project Schedule, Participation in design coordination meetings, Constructability Reviews/Pre-Bid/Pre-Construction Meetings, Review of Shop Drawings, Responses to RFI's, Construction Inspections, Pump Start-Up Tests, and Project Closeout Certification coordinated with MDWASD and the design team. Representative assignments have included ~5 miles of 8"-12" forcemains and rehabilitation of 18 MDWASD Pump Stations.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Salmon Farm Phase I, Atlantic Sapphire, Inc. - Homestead, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2017 - Ongoing		Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>b. Senior Engineer in charge of the design of the Sanitary Sewer System for the new 20-acre Atlantic Salmon Farm in South Miami Dade County, including coordination with design professional hydraulic analysis, design, permitting for two new onsite septic/drainfield systems, and a new salmon process waste collection, pumping and forcemain system discharging to deep injection wells. Services include construction phase to include review of shop drawings responses to RFI's, and issuance of field change modifications coordinated with Selected Contractor, Design Team and Owner</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Archdiocese of Miami - Epiphany Parish Campus Sewer Tie In - Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2015		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>c. Professional engineering services were provided for the design, permitting support and construction administration services for sanitary sewer system improvements at the Epiphany Parish Campus, including 1,415 LF of PVC gravity sewers; two (2) pump stations, and 260 LF of PVC sanitary force mains throughout the campus, as well of abandonment of the existing drainfield and septic tanks. Permitting (MD-RER/FDEP/BLDG DEPT), bidding, constructions and closeout services were also provided.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Forcemain No. 0067, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2017		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>d. Mr. Young was responsible for civil engineering services related to the design of new force main at Miami-Dade Water and Sewer Department (WASD) Pump Station 0067. The design included route planning, analysis of subsurface utility investigation information, hydraulic analysis and utility conflict resolution. Services also included pipeline construction analysis, analysis of design requirements for various valve installations, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost. Permitting (MD-RER/FDEP/PWWM), bidding and constructions services were also provided.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Pump Station No. 0113, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2016		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>e. Design of sanitary sewer pump station upgrade for the Miami-Dade Water and Sewer Department (MDWASD). This project included the retrofit of the upgraded pump station reconfiguration from wet-dry to submersible pump systems, electrical upgrade coordination, yard piping modifications, hydraulic analysis, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost.</p>					

(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Pump Station No. 0435, Miami-Dade Water and Sewer Department – Miami, Florida	PROFESSIONAL SERVICES 2017	CONSTRUCTION (<i>if applicable</i>) 2017
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
f. Design of sanitary sewer pump station upgrade for the Miami-Dade Water and Sewer Department (MDWASD). This project included the retrofit and upgrade of the existing submersible pump system, station reconfiguration, yard piping modifications, hydraulic analysis, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Pump Station No. 0897, Miami-Dade Water and Sewer Department – Miami, Florida	PROFESSIONAL SERVICES 2018	CONSTRUCTION (<i>if applicable</i>) 2018
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
g. Design of sanitary sewer pump station upgrade for the Miami-Dade Water and Sewer Department (MDWASD). This project included the retrofit of the submersible systems with upgraded pumps, lift station site plan reconfiguration, yard piping modifications, hydraulic analysis, development of the contract document's technical specifications, and preparation of engineer's opinion of probable construction cost.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Pump Station No. 0794, Miami-Dade Water and Sewer Department – Miami, Florida	PROFESSIONAL SERVICES 2018	CONSTRUCTION (<i>if applicable</i>) 2018
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
h. Mr. Young was responsible for civil engineering services related to the design of new forcemain that was put in place in response to a remedial action plan on a pump station where the discharge flow would exceed the velocity limits of the 6-inch force main system. Approximately 1,000 LF of new 8-inch DIP force main was designed for the Miami-Dade Water and Sewer Department (WASD), in addition to pipeline construction and valves & route restoration.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
West Homestead K-8 School Improvements, Miami-Dade County Public Schools – Homestead, Florida	PROFESSIONAL SERVICES 2017	CONSTRUCTION (<i>if applicable</i>) 2018
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if performed with current firm	
i. Design Review for the Building Code Consultant improvements to the West Homestead K-8 School. Design review of proposed infrastructure improvement plan (storm water, potable water, sanitary sewer and lift station systems) for code compliance and accuracy. Field inspection and observation of various infrastructure design systems including storm drainage, potable water system, lift station system and wastewater system. Prepared field observation reports and recommended corrective action for deficiencies coordinated with MDCPS, Contractor and Design Team.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Marina Palms Yacht Club & Residences, The Reserve at Marina Palms – Miami, Florida	PROFESSIONAL SERVICES 2014	CONSTRUCTION (<i>if applicable</i>) 2014
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input type="checkbox"/> Check if performed with current firm	
j. Prepared scope of work, plans, calculations, specifications and cost estimates for Civil infrastructure. Project services include Civil infrastructure site planning & design (water, sewer, paving & drainage) for residential high end residential 468-unit condominium with 112-slip marina. Design of storm water management & conveyance system including use of AutoCAD and hydrologic design software (Cascade). Prepared of pipe sizing calculations; prepared drainage area maps; analyzed surface runoff coefficients, invert, slope, velocity & hydraulic grade line evaluation for storm water conveyance systems. Designed utility systems including sanitary sewer system, MDWASD pump station upgrade, potable water system, and fire line water supply and marina vacuum sewer & potable water systems. Determined and resolved vertical & horizontal utility conflicts. Preparation of construction cost estimates. Directed efforts of all staff necessary to complete assignments. Assisted upper management and staff as a technical advisor. Reviewed project documents, plans and calculations for accuracy, conformity and quality assurance. Attended project meetings and presented aspects of engineering assignments.		
(1) TITLE AND LOCATION (<i>City and State</i>)	(2) YEAR COMPLETED	
Broward County North Regional Wastewater Treatment Plant Upgrade, Broward County Water and Wastewater Services – Broward County, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (<i>if applicable</i>) 2013
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE	<input type="checkbox"/> Check if performed with current firm	
k. Monitored and observed the installation of regional wastewater treatment facility effluent Class I deep injection well (DIW) and associated monitoring well system for regulatory compliance. Performed various environmental and geologic samplings and tests during drilling and well development. Recorded required data, results and observations for regulatory agencies with jurisdiction. Complied data and prepared required reports and logs. Processed contractor Requests For Information (RFI's).		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Pablo Garcia		Field Engineer		a. TOTAL	b. WITH CURRENT FIRM
				39	17
15. FIRM NAME AND LOCATION (City and State) Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization) B.S. Civil Engineering			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Commercial Building Inspector Certificate No. 5217978-132, Earthwork Construction Inspection Certificate, Qualified Stormwater Management Inspector Certificate - DEP					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
20-Acre Salmon Farm – Phase 01, Atlantic Sapphire USA, LLC - Homestead, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2017 - Ongoing	Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>a. Civil Designer & Field Engineer responsible for the production of design drawings coordinated with MSA senior engineering staff for the Site Paving, Grading, Drainage, Water Distribution and Site Fire Protection piping (2,700 LF), Raw water piping (12"-16") system (+/-800 lf), Raw water piping (16"-20") interconnecting 2 onsite Biscayne Aquifer (BA) wells and Process Wastewater (24"-30") piping from onsite process waste tank to offsite deep injection well; paving, grading, drainage design for the new (+/-4,000 lf) 2-lane Access Road from SW 217th Avenue the Salmon Farm site. In addition, currently conducting construction administration services including shop drawing reviews, performing periodic civil infrastructure inspections during construction, witnessing of civil infrastructures tests (pressure/exfiltration/infiltration, etc) coordinated with multiple contractors and the MSA design & management staff.</p>					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Surface Parking Lot 1A, City of Miami Beach C.I.P Department - Miami Beach, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2015 - Ongoing	Ongoing		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>b. Civil Designer and Field Engineer responsible for preparation of civil infrastructure drawings coordinated with MSA senior staff to improve an existing City owned at-grade parking lot adjacent to the NIKKI Beach Club in Miami Beach. Services included preparation of phased construction drawings to include demolition plans, paving, grading, drainage, 4 gravity drainage wells, signage and pavement marking plans coordinated with the MSA design team. In addition, currently assisting the City during construction phase of the project to include weekly construction inspections, performing NPDES compliance inspections and assisting with project close-out as the project approaches completion scheduled for July 2019.</p>					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Our Lady of Guadalupe & San Juan Diego Parish Development, Archdiocese of Miami - City of Doral, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2014	2014		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>a. Field Engineer responsible for construction administration services for all civil infrastructure required for the new 7-acre catholic church development in the City of Doral, including shop drawing reviews, periodic site visits, generating construction observation reports, witnessing key civil infrastructure tests (exfiltration/pressure tests), inspection of paving, grading, drainage, traffic signage & markings, water distribution, gravity sewer, sewage lift station, and forcemain systems. In addition, Mr. Garcia conducted weekly NPDES compliance inspections during construction for compliance with FDEP requirements, reviewed civil infrastructure as-builts, and participated in the project close-out and certification process.</p>					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Lakeside Mausoleums Development, OLM Cemetery, Archdiocese of Miami - City of Doral, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2012	2012		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>b. Project Engineer responsible for the design of paving, grading, drainage, and sanitary sewer systems for a new 3-story (11,000 crypts) mausoleum building at Our Lady of Mercy Cemetery in Doral. Prepared stormwater calculations per SFWMD and DERM criteria, obtained ERP Modification permit, DERM-Class II permit, and conducted construction administration services (shop drawing reviews, construction inspections, as-built reviews) as well as weekly NPDES compliance inspections per FDEP requirements.</p>					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Miami International Airport Stormwater Sampling & Monitoring Program – Field & Reporting Services, Miami-Dade Aviation Department – Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2003 - Ongoing	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>c. Field Engineer for the consulting services provided to MDAD for the stormwater sampling/monitoring program at Miami International Airport. Responsible for the performance of monthly background sampling events, primary storm sampling events, secondary outfall sampling events and the best management practices sampling events. The objective of this program is to monitor the water quality of the surroundings of the airport.</p>					

(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Trade Shops Facility, Miami-Dade County GSA – Miami, Florida		PROFESSIONAL SERVICES 2010	CONSTRUCTION (<i>if applicable</i>) 2010
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
d. Field Engineer responsible for coordinating all day-to-day activities during construction of the civil infrastructure for the Miami-Dade County GSA Facility Design/Build project located at NW 46th St. & NW 35th Ave in Miami, Fl. Services included the preparation of civil infrastructure inspections, shop drawings, as-built reviews, and construction closeout.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Homestead Air Force Base Phase II Water and Sewer Improvements, Miami-Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES 2005	CONSTRUCTION (<i>if applicable</i>) 2005
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
e. Project Engineer for the preparation of the restraint joints calculations for the 6,000 LF of 24-inch water mains 3,500 LF of 16-inch sewage force main connecting to an existing 48-inch public force main in conformance with MDWASD standards.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
E.B. Thomas Elementary, Miami-Dade County Public Schools – Miami, Florida		PROFESSIONAL SERVICES 2008	CONSTRUCTION (<i>if applicable</i>) 2008
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
f. Project Engineer responsible for the design and construction phase services for paving, grading, drainage, water and sewer improvements to E.B. Thomas Elementary including new parking areas. Performed construction inspection visits on a periodical basis.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Ryder Site Development (Park Square at Doral), SHOMA Home Development – City of Doral, Florida		PROFESSIONAL SERVICES 2009	CONSTRUCTION (<i>if applicable</i>) 2009
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
g. Assisted with the construction inspection services for the Ryder Site Development located in the City of Doral on NW 82 Ave between NW 36 St and NW 33 St., including civil infrastructure shop drawing reviews, witnessing pressure tests, and assistance with project closeout.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Scott-Carver Homes; Hope VI Redevelopment, Miami-Dade H.U.D. – Miami, Florida		PROFESSIONAL SERVICES 2012	CONSTRUCTION (<i>if applicable</i>) 2012
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
h. Field Engineer responsible for providing construction NPDES inspections and construction inspection services at the development of the Scott-Carver Homes; Hope VI Redevelopment Project, a proposed phased residential development located in Miami-Dade County, Florida.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Central West Transportation Services – New Bus Maintenance Facility, Miami-Dade County Public Schools – Miami, Florida		PROFESSIONAL SERVICES 2008	CONSTRUCTION (<i>if applicable</i>) 2008
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
i. Assisted in the design, permitting and more specifically the construction phase for Central West Transportation Center's new Bus Maintenance Facility.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
NPDES Inspections for Housing and Public Improvements, Scott-Carver HOPE IV Redevelopment Project - Miami, Florida		PROFESSIONAL SERVICES 2010	CONSTRUCTION (<i>if applicable</i>) 2010
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
j. Field Engineer responsible for performing periodic NPDES inspections during the onsite and offsite improvements of this project. Consistent with FDEP requirements.			
(1) TITLE AND LOCATION (<i>City and State</i>)		(2) YEAR COMPLETED	
Eureka Pointe Townhomes, Quest Construction Group, Inc. – Miami, Florida		PROFESSIONAL SERVICES 2007	CONSTRUCTION (<i>if applicable</i>) 2007
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm	
k. Project Engineer responsible for the civil engineering services provided for this 22-unit townhome development. Prepared construction drawings for a new 8-inch watermain extension and a new 8-inch gravity sewer main to serve the new development. Prepared paving, grading, drainage, traffic signage and pavement marking plans. Assisted the client in obtaining approvals from the different regulatory agencies. Performed construction observations at critical stages of construction in order to certify the project to the regulatory agencies.			

(1) TITLE AND LOCATION (<i>City and State</i>) American Airlines Terminal Expansion, Miami-Dade Aviation Department – Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2003 2004	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE l. Field Inspector for environmental oversight inspections for the American Airlines Miami International Airport Terminal Expansion to identify occurrences of contaminated soils during excavation associated with underground utility installations. These inspections included the documentation of all construction activities and remediation recommendations.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Water and Wastewater Annual Report, Broward County Water and Sewer Utility – Broward County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2010 N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE m. Assisted with the preparation of the water and wastewater systems annual report for the Broward County Office of Environmental Services (BCOES). Performed the physical inspections of 7 master sewage pump stations, 25 lift stations, water and wastewater treatment facilities and recommended improvements.	<input checked="" type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) FEMA DORM Projects - Miami-Dade Public Works Department, Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2002 2002	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE n. Field Inspector involved with inspections of storm water drainage projects, which consisted of excavation, pipe and structure replacement. Also, was involved in inspecting roadway and driveway restoration, construction of concrete sidewalks and curbs and gutters.	<input checked="" type="checkbox"/> Check if performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Michael Landrum		Senior Environmental Scientist		a. TOTAL	b. WITH CURRENT FIRM
				40	2
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.A. Marine Biology			Registered Environmental Manager, No: 07056 (Renewal Pending)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
Wetland Delineator (provisional), U.S. Army Corps of Engineers, Certified as General Member: National Association of Environmental Professionals (NAEP)					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Tree Island Park and Preserve, Environmental Regulatory Permitting, Dade County Parks, Recreation, and Open Spaces Department		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2019		Ongoing	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a. Environmental Regulatory Permitting; including Dredge and Fill (Section 404) U.S. Army Corps of Engineers, ERP South Florida Water Management District; Miami-Dade RER Class IV Wetlands Permit, Lead Florida Bonneted Bat Survey with Subconsultant, Conducted Wood Stork Forage Analysis, Eastern Indigo Snake Education and Protection Program, Conducted Field UMAM Analysis and Negotiated a Successful Mitigation Compensation Outcome with Regulatory Agencies for Project Wetland Impacts including Onsite and Offsite Mitigation, and Coordinated with Everglades National Park Hole-In-The-Donut Restoration Program to Secure State and Federal Mitigation Credits for the Project. Developed a 5-Year Mitigation Monitoring and Maintenance Schedule for the Onsite Wetland Preservation.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Wetland Mitigation Monitoring and Reporting, Broward County Solid Waste and Recycling Services, Broward County, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2018		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b. Conducted Third Party Monitoring of Maintenance Activities on Six Existing Large Wetland Mitigation Sites within Broward County over a 4-year Period. Lead Field Visits with Maintenance Contractor to Six Sites to Review Quarterly Maintenance Activities (Exotic Plant Species Management) and Prepared Quarterly Monitoring Reports for Owner documenting Success of Maintenance activities for each Site. Developed Recommendations for Contractor regarding the Eradication of certain Exotic Plant Species for each site.					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Miami Dade County Water and Sewer, Injection Well Permitting Services – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2018		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c. Regulatory Permitting Lead. Successfully Applied for State Programmatic General Permit (SPGP) U.S. Army Corps of Engineers and Florida DEP, and Class IV Wetlands Permit Miami-Dade County RER to Construct an Exploratory Injection Well in Western Dade County, Conducted Field UMAM Analysis, Prepared and Submitted Permit Applications, Harmonized with DEP, RER and Owner to Develop a Restoration Plan for the Site Following Well Construction					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Environmental and Structural Maintenance Assessment of Piers – Homestead, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2018		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e. Served as Project Manager and Permitting Lead to assess the overall condition of heavily used public boat ramps which needed repairs. Coordinated with civil and structural engineers to access boat trailer parking area, and underwater dive team to assess the condition of concrete decking and dock pilings. Prepared a final assessment report for client documenting existing conditions including estimates of repairs to decking, bents and piers vs new construction. Estimates included environmental permitting for demolition, repairs or new construction of public docks. Homestead Bayfront Park Marina Public Boat Ramp, Homestead, Miami Dade County, FL					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Environmental Permitting, Seagrass Survey, Floating Dingy Dock and Mooring Field Design – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2018		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
f. Served as Project Manager and environmental permitting lead to design a new mooring field with 27 new mooring buoys for sailboats in the intracoastal at Pelican Harbor. Project included a seagrass survey prior to mooring buoy and floating dingy dock placement within the marina along with environmental permitting with the U.S. Army Corps of Engineers, Coast Guard, Miami Dade County Department of Environmental Management and Florida Department of Environmental Protection., Pelican Harbor Park, Miami, Miami Dade County, FL					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Oswaldo Perdomo		Project Engineer		a. TOTAL	b. WITH CURRENT FIRM
				4	1
15. FIRM NAME AND LOCATION (City and State)					
Milian, Swain & Associates, Inc. – Miami, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
B.S. Civil Engineering					
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Plans Review Engineer, Hialeah Department of Water & Sewers - Hialeah, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2018 - Ongoing		N/A	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
<p>a. MSA Resident Project Engineer at the City of Hialeah Department of Water & Sewers – Engineering Office. General duties and responsibilities include conducting technical reviews of water and sewer design documents and specifications submitted to the City by customers (i.e. developers, architects, engineers) for compliance with the City’s Water and Sewer Design and Construction Standards; including but not limited to Water Distribution Systems (Watermain Extensions, Fire Lines, Domestic Services, etc.), Sanitary Sewer Collection, Transmission and Pumping systems and related computations/calculations. Prepare pertinent technical reports/memoranda for each assigned task; including Water and Sewer Service Agreements between the City and Developers. Interface with the City’s Plans Review staff, other City Departments, regulatory agencies and technical consultants (i.e. Architects/Mech./Structural, Surveyors, etc.). Review AS-BUILT Water and Sewer drawings for compliance with City approved construction documents and participate in the project close-out and certification process.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Proposed 54” PCCP & HDPE Force Main from Commerce Street and Washington Avenue – Miami Beach, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2015-2017		2016	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm			
<p>b. Designer for work related to the design, permitting, construction, testing and commissioning services for the construction of approximately 5,300 linear Force Main with a minimum internal diameter of 54-inches that included a 3,300 LF of Horizontal Directional Drilling and 2,000 LF of open cut. The initial connection was to the existing 48-inch plug valve located at the intersection of Washington Avenue and Commerce Street, extending northerly within the ROW of Washington and Euclid Avenues, and easterly within the ROW of 11th Street; the final connection was to the existing 30-inch FM in the vicinity of Pump Station No. 1.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
24-Inch Force Main and 24-Inch Water Main –Subaqueous Crossing of Biscayne Canal – City of North Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2015-2017		2017	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm			
<p>c. Project Engineer for design of 450 LF of 24-in FM installed by HDD under the Biscayne Canal from Griffin Blvd to NE 2nd Ave. The new 24-in FM is to be interconnected to the existing force mains on both side of the canal. The project also encompasses 450 LF of 24-in WM installed also by HDD, which also crosses the Biscayne Canal. The proposed WM has been permitted by FDEP and includes isolation valves, leak testing assemblies and interconnections to the existing water mains.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Design Phase of a 42-Inch PCCP / HDPE Force Main along North Miami Avenue, Miami Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2016-2017		2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm			
<p>d. Designer responsible for work related to the furnishing and installation of approximately 3,010 L.F. of 42-inch Pre-stressed Concrete Cylinder Pipe (P.C.C.P.) and 8,216 L.F. High-Density Polyethylene (H.D.P.E.). It also includes the furnishing and installation of 60 LF of zinc-coated 24-inch Ductile Iron Pipe (D.I.P.). Work includes the installation of four (4) sections of 42-inch H.D.P.E. force mains using Horizontal Directional Drill Method.</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
MDWASD 12-Inch D.I. Force Main along SW 92nd Avenue, Miami Dade Water and Sewer Department – Miami, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
		2017-2018		2018	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input type="checkbox"/> Check if performed with current firm			
<p>e. Project engineer for the replacement of approximately 14,000 linear feet of 10-inch, 6-inch and 4- inch asbestos cement pipes (ACP) force mains with proposed 12-inch, 8-inch and 6-inch ductile iron pipes (DIP) from PS No. 0728 to PS No. 0709 including reconnections of PS No. 0738, PS No. 0735 and PS No. 0730. Work includes connections to the existing 12-inch ductile irons pipes, connections to existing 6-inch and 4-inch cast iron pipes (CI) force mains, reconnections to PS No. 0709, PS No. 0735, PS No. 0738, PS No. 0730 and PS No. 0738 and private pump station, subaqueous crossing of C-100 canal by open cut method; and associates permitting through local and state agencies.</p>					

(1) TITLE AND LOCATION (<i>City and State</i>) 16-Inch Force Main and 20-Inch Water Main HDD under Intercoastal Waterway - Fort Lauderdale, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2016 2016	
f. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Provided engineering and design of a 20-in DI Water Main and 16-in DI Force Main, including 1,220 Linear Feet of Horizontal Directional Drill subaqueous crossing for both pipes at the Intracoastal Waterway.	<input type="checkbox"/> Check if performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) MDWASD 36-Inch D.I. Water Main along NW/NE 135th Street, Miami Dade Water and Sewer Department – Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2015 - 2016 2016	
g. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Designer for the replacement of approximately 14,900 LF of a proposed 36-inch Ductile Iron (D.I.) Water Main (WM) along NW/NE 135th Street from NW 7th AVE to NE 16th AVE. WASD is required to upgrade the transmission piping network with the design of this Water Main. The project also includes the installation of 1,285 linear feet of 36-inch HDPE WM via Horizontal Directional Drill (H.D.D.) crossing the Biscayne Canal, plus interconnections at NW 4th Ave, NE 4th Ave, NE 11th Ave and NE 13th Ave where they intersect NW/NE 135th Street.	<input type="checkbox"/> Check if performed with current firm	

wood.

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Ricardo Fraxedas, PE	Environmental/Contamination Services Lead	a. TOTAL 40	b. WITH CURRENT FIRM 17

15. FIRM NAME AND LOCATION (City and State)
Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
<ul style="list-style-type: none"> Master of Science, Environmental Engineering, University of Florida, 1977 Bachelor of Science, Microbiology, University of Florida, 1975 	<ul style="list-style-type: none"> Professional Engineer, Florida No. 43287 Qualified Stormwater Management Inspector, Florida No. 25665

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)
Mr. Ricardo Fraxedas is an Environmental Engineer with 40 years of experience. He has an extensive background in environmental regulatory affairs and resolution of environmental issues for commercial and government clients. He has been responsible for assessments, remediation, and litigation support for a variety of industries and sites, including airports, fuel terminals, manufacturing facilities, educational facilities, and waste disposal sites in the United States, Caribbean, and Latin America. He has authored articles and presented lectures on environmental consulting, site assessments, design of remediation systems, environmental regulatory compliance and sustainability. He has served as an expert witness on more than 30 environmental compliance, remediation, and permitting matters and has provided review and interpretation of Latin American environmental regulations for multi-national clients. Prior to joining Wood, Mr. Fraxedas served as the head of the hazardous materials section for Miami-Dade County, Florida, where he authored the county's underground storage tank regulations and industrial waste pretreatment regulations.

19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Residential Canals Inventory, Water Quality Assessment and Geographical Information System Services, Monroe County Marine Resources Departments, Florida	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Program Manager. Services include inventory and assessment to determine physical characteristics of water in canals in residential areas of the Florida Keys. The program includes review of existing data and setup of a GIS database and metadata file of information on the canal system. Since the initial services, the program has expanded to the current evaluation, selection, and installation of demonstration technologies to improve the water quality in selected Monroe County Canals. Participated in outreach programs to disseminate information to homeowners and residents to explain the goals of the program and educate residents on Best Management Practices to prevent water quality degradation in their canals. Active in meeting with individual homeowners, County staff, and other stakeholders to explain the program goals and address issues and concerns dealing with the implementation of the various program components. As the program manager, involved in the technology evaluation and selection as well as the oversight of technology installation permitting and construction projects. (Cost: \$500,000 annually)		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Harry Harris Park Vulnerability Analysis, Monroe County, Florida	PROFESSIONAL SERVICES 2018	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Engineer. Wood working closely with Monroe County submitted a Grant Application to FDEP's Coastal Partnership Initiative program for funding for the vulnerability analysis. The scope of work will include the completion of a vulnerability assessment of the Harry Harris Park owned and maintained by Monroe County. This assessment will proactively develop adaptation strategies to enhance the County's investment in an important State goal- the preservation and enhancement of public access in Florida. This analysis furthers the work of the County's Sustainability and Climate Plan ongoing under the Green Keys plan which sets forth recommendations to plan appropriate uses and adaptation measures for areas. The analysis will review the existing features within the property and identify necessary adaptation measures to protect it (and the adjacent neighborhood) from storms and future impacts from sea level rise and other impacts/stress to maintain business operations. The work will also enhance and protect the County's financial investment in preserving its use in perpetuity as a public facility with recreational boat access use and furthering the State's goals to preserve and protect public access.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Various Environmental Projects, Chevron, Latin America and Caribbean	PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Principal Engineer. Services included ESAs, remedial system design, site remediation, and interaction with regulatory agencies in several countries. Awarded a "Best in Class Performance" service award from Chevron in 2011. As part of the services for one of the sites in Nicaragua, a presentation to the Supreme Court in Managua was provided in Spanish to establish the appropriate cleanup protocol. Projects included:		
	<ul style="list-style-type: none"> Jamaica ECR Sites, Jamaica Texaco Pollyberg, St. Thomas Texaco Tabarre, Port-au-Prince Paramaribo (Suriname) Site Remediation, Paramaribo Grand Cayman Island Groundwater Sampling and Site Remediation, George Town, Grand Cayman Coenesa Generacion Site Assessment, Rio Dulce 		
	(Cost: Varies)		

d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Las Olas Boulevard Groundwater Monitoring, City of Fort Lauderdale, Florida	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Engineer. Manage quarterly monitoring events to monitor isopropylbenzene and polynuclear aromatic hydrocarbons in the groundwater. Prepared a RAP for removal of contaminated soil to expedite the remediation process to construct the proposed replacement pump station. Assisted the City with bid specifications for the bid package for the construction of the pump station and handling of contamination. It included site safety, environmental issues such as free product and contaminated soil, contaminated water dewatering, surface water controls, environmental permitting, and waste handling, etc. (Cost: \$100,000)</p>		
e.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Stormwater Management and Environmental Engineering Consulting Services, Broward County Aviation Department, Florida	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Environmental Project Manager. Works closely with Broward County Aviation Department (BCAD) executives and staff, and manages a team of environmental engineers and scientists at all BCAD airports. Project includes updating of Stormwater Pollution Prevention Plan (SWPPP) in accordance with the EPA Phase I and Phase II federal regulations. Directs the annual tenant inspections for compliance with stormwater management and BMP programs. Provides training for BCAD operations staff in stormwater management regulations and practices. Provides professional engineering and environmental management consulting services to BCAD in conjunction with the FDEP NPDES industrial stormwater inspection of FLL and NPA. Conducts voluntary analytical monitoring and reporting of results pertaining to industry-specific point source discharges of stormwater runoff from outfalls located within FLL. As part of the stormwater program development, services included the development of a training program and materials for the training of the operations staff at the airports as well as the development of training materials for the education of the tenants at the airports. (Cost: \$80,000 annually)</p>		
f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Miami-Dade County Department of Environmental Management, Florida	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Program Manager. Provided requested environmental services for all Miami-Dade County Departments. Services provided have included water and soil quality assessments, remedial design, property due diligence assessments, geotechnical analysis, and similar environmental services. (Cost: \$3 million max per three-year cycle)</p>		
g.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Permitting Services, American Tire Recycling Group, Miami, Florida	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager/Project Engineer. Provided assistance in permitting the tire collection, shredding, and recycling facility. The permitting effort required coordination between DERM, the Miami-Dade Solid Waste Department, and SFWMD. Worked closely with the facility architect and the shredding equipment suppliers in to create a facility that would be approvable. Research was performed and presentations were made to the applicable agencies to show that the facility would be a legitimate recycler and not a transfer or disposal facility. Permitting for expansion of facility capacity was initiated in 2017 and is ongoing. (Cost: \$30,000)</p>		
h.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Harvey Government Center Facility Assessment, Monroe County, Florida	PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Principal-in-Charge. Wood was tasked with performing a facility condition assessment (FCA) of the Harvey Government Facility in Key West, Florida. The FCA included inspections and accurate analysis of all visible components and elements of the designated property and facility. The results of the FCA were detailed in a facility condition assessment report (FCAR). The processes for both, the FCA and FCAR were in accordance with the standards and practices as identified by IFMA and ASTM-E2018-08. (Cost: \$106,000)</p>		
i.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Intercity Passenger Rail Project, Environmental Permitting and Civil Engineering Services, All Aboard Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2016
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Permitting Manager. Participated in client relations and South Florida permitting efforts. All Aboard Florida (AAF), a subsidiary of Florida East Coast Industries, Inc. (FECI), is developing a privately owned, operated, and maintained passenger rail that will connect South Florida to Orlando. Wood was selected to provide environmental permitting and civil engineering services. The project is composed of two distinct segments; a 200-mile north-south segment of the existing Florida East Coast Railroad right-of-way (ROW), from Cocoa to Miami, and a 40-mile east-west segment along State Road 528 that connects Orlando to the FECI mainline. The permitting efforts include conceptual design of the new mainline, multiple sidings, bridges and curve reduction project areas related to the development of the commuter rail system. This project also includes biological, wildlife, geotechnical and survey data collection, development of stormwater treatment systems, stakeholder meetings, public meetings, and agency meetings. The agencies processing the applications include: FRA, USACE, USFWS, NMFS, USCG, FDEP, SFWMD, SJRWMD, FFWCC, SHPO, and Miami Dade and Broward Counties. (Cost: Confidential)</p>		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Mark M. Kearns		Environmental Engineering and Science Services		a. TOTAL	b. WITHCURRENT FIRM
				11	10
15. FIRM NAME AND LOCATION (City and State)					
Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
Bachelor of Science, Anthropology/Archaeology			Qualified Stormwater Management Inspector		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
<p>Mr. Mark Kearns is an Environmental Scientist with 11 years of experience. His responsibilities include technical writing, research and review of regulatory reports, site visits, environmental assessments, and field sampling. Mr. Mark Kearns is proficient with the following technical resources and equipment: Geoprobe Drill Rig, various electronic submersible pumps, peristaltic pumps, electric water level indicators and interface probes, YSI 556 multi-parameter meter, turbidity meters, various FID/PID models, hand augers, GPS (hand-held) and Laser Level and Total Station survey equipment. Throughout his career, he has performed assessments of contamination at petroleum and non-petroleum sites. These studies included soil and groundwater sampling, soil screening, interpretation of chemical analyses, determination of pollutants and their extent in the soil and groundwater, geological description, client and regulatory correspondence, and report compilation. Mr. Kearns has participated in the sampling and analytical interpretation of groundwater contamination at various sites. He has taken part in the sampling and interpretation of groundwater contamination of volatile and semi-volatile components, metals, as well as chlorinated hydrocarbons as part of contamination assessments under the UST and hazardous waste programs. Mr. Kearns has been involved in the supervision of soil and groundwater remediation system installations and tank removals in both the United States and abroad in Central and South America and the Caribbean.</p>					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Stormwater Management Program, Broward County Aviation Department, Ft. Lauderdale, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2012	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
a.	<p>Environmental Scientist. Provided environmental services for water quality compliance monitoring which included stormwater monitoring, data review, reporting and tenant inspections. Responsible for the collection of surface water samples from 7 outfalls as well as the Dania Cutoff Canal. Chemical analyses included oil & grease, nutrients, Biological Oxygen Demand, Chemical Oxygen Demand and salinity. In addition, field data included the collection of dissolved oxygen, conductivity, pH, and temperature. Work was conducted in accordance with FDEP SOP FS 2100. (Cost: \$1.3 million)</p>				
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Effluent Industrial Wastewater Monitoring, Miami Dade County Aviation Department, Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		Ongoing	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
b.	<p>Environmental Scientist. Performed routine environmental compliance monitoring with tasks including the collection of effluent industrial wastewater samples at Miami Dade County Aviation Department facilities located at Miami International Airport. (Cost: \$23,600)</p>				
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Drinking Water Sampling, Miami International Airport Department of Health, Miami, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		Ongoing	NA		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
c.	<p>Environmental Scientist. Provided environmental compliance monitoring for the Public Water System at Miami International Airport. Responsible for collecting drinking water samples and inspecting the sample locations in accordance with the Code of Federal regulations 40 Part 141. (Cost: \$98,900)</p>				
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
Environmental Services, Crandon Park Tennis Center Construction, Key Biscayne, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2014	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
d.	<p>Environmental Scientist. Site soil assessments prior to the initiation of construction in order to determine hazardous, unexpected, or otherwise unacceptable wastes that may or may not be encountered at the site. Tasks included project coordination, soil and surface water field analysis, report writing and correspondence with client and project manager. Surface water sampling was conducted in accordance with FDEP SOP FS 2100. (Cost: \$88,100)</p>				
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED			
9R-27L Runway Expansion, Broward County Aviation Department, Fort Lauderdale, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
		2014	N/A		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if performed with current firm			
e.	<p>Field Scientist. Providing ecological services and permit compliance monitoring for the expansion of the 9R-27L runway at Fort Lauderdale-Hollywood International Airport (FLL). Ecological services include implementation and review of daily inspection reports for compliance as well as oversight of the Manatee and Indigo Snake Protection education plan and migratory bird nest removal activities. Protected species include the burrowing owl, wood stork, and crested caracara. Developed an environmental permit matrix for the purpose of tracking environmental regulatory requirements for the project. (Cost: \$3.3 million)</p>				

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME Mark Tomczyk, PE	13. ROLE IN THIS CONTRACT Roadway Design	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 1

15. FIRM NAME AND LOCATION (City and State)
Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
<ul style="list-style-type: none"> Master of Science, Environmental Engineering, Pennsylvania State University, 2001 Bachelor of Science, Civil Engineering, Pennsylvania State University, 1990 	<ul style="list-style-type: none"> Professional Engineer, Florida No. 63171, Pennsylvania No. 048718E, Alabama No. 29062-E, Mississippi

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Mark Tomczyk has more than 23 years of general civil engineering experience, with a specialty in land development, stormwater management, floodplain modeling, permitting, private development engineering, and construction administration. He has extensive experience with the design/implementation of grant funded public and quasi-public entities in the generation of technical specification and grant management. Additionally, Mr. Tomczyk has been utilized as an expert witness for courtroom testimony for land use and stormwater management/floodplain management issues. Mr. Tomczyk has also provided engineering and support services for federal, public, and private clients for residential, industrial, and institutional development. Key services include structural, land development site plan/engineering preparation, development feasibility study, subdivision design, roadway design, stormwater management, floodplain and riparian engineering, grading (earthworks), drainage and erosion control, road design, traffic improvements, environmental design and restoration, construction specification, commissioning, and procurement of all local, county, state, and other governmental approvals.

Mr. Tomczyk also has extensive military-related project experience. Mr. Tomczyk has provided civil/utility engineering design for design-build, design-bid-build and enhance use lease projects with the U.S. Army Corps of Engineers and the Naval Construction Battalion Center.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Countess Hoernle Park IDC, City of Boca Raton, Florida	2010	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager/Civil Engineer. This contract provided comprehensive project management and full turnkey consulting services for the development of a 228-acre park. The City completed a preliminary Master Plan in early 2006 for the entire site. The overall scope of services for the park development includes the following: project management; survey; geotechnical; environmental; landscape architecture/land planning; reclaimed water; civil engineering; architecture; mechanical/electrical engineering; structural engineering; permitting; bidding and construction. This project includes the design of the Phase I Master Plan components for the South Site, comprising approximately 171 acres, to satisfy the City's immediate need for softball and soccer playing fields, while being environmentally and culturally innovative. (Cost: \$500,000)		
South Point Park Landscape Remediation Project, City of Miami Beach, Florida	2016	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior City Project Manager. Responsible for the oversight of the remediation of the landscaping at South Pointe Park. Work included the following tasks: removal and replacement of sod and shrubs and rehabilitation of shrubs, trees and palms; reconfiguration, replacement and installation of the irrigation system; installation of underground drainage system and connection to existing storm system; installation of new and/or existing paver walkways, sidewalks, steps, curbs, borders, and underground conduits; removal and replacement of soil material and proper disposal of removed soil materials, debris, and landscape; protection of all existing structures, trees, landscape, walks, fountains, utilities, signs, striping, fences, and benches; and reconfiguration of slopes, mounds, walks, and landscape. (Cost: \$2.9 million)		
City of Miami Beach – Future Community Park (Former Par 3 Golf Course), City of Miami Beach, Florida	2016	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior City Project Manager. Responsible for the oversight of design for a new passive park located at the form City's Par 3 Golf Course. The scope of the project includes a formal entrance, parking area(s), tennis courts, central plaza and gardens, open lawn, dog park, vita course loop, open sodded area, landscape and irrigation, ADA children's play area, and restroom facilities. The passive park will be the core of the residential neighborhoods to the north and east of the site, the Hebrew Academy, Miami Beach Senior High to the south, and the Scott Rakow Youth Center to the east. The park site is approximately 19.4 acres in size. (Cost: \$9 million)		

(1) TITLE AND LOCATION (<i>City and State</i>) Comprehensive Plan Update and Land Development Code Re-Write, Monroe County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) Ongoing N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Technical Lead/Project Oversight. Monroe County has contracted with Keith and Schnars to update their Comprehensive Plan Policy and Technical Documents to the 2010-2030 planning timeframe; the last update occurred in 1995. Keith and Schnars is also providing services to prepare the EAR for the County. Monroe County's current regulations were drafted in 1985 and have been appended numerous times over the years. The goal of this project is to realign the LDR sections to make it more user friendly, incorporate modern planning strategies, and implement the goals, objectives, and policies of the comprehensive plan. Mr. Tomczyk is responsible for analyses of potable water, sanitary sewer, and drainage. (Cost: \$150,000)	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) MC 130 Simulator Facility, U.S. Army Corps of Engineers – Mobile District, Hurlburt Field, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2009 N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Civil Engineer. Civil engineering for the new MC-130 Simulator Facility. The site is bounded on the north by Building A, on the east and south by existing parking, and on the west by an existing service drive. Grassed areas of the site are developed with concrete walkways that will be removed to allow the facility to be constructed. Adjacent asphalt paved parking areas will also be removed to establish required AT/FP setback distances from existing parking installations to remain. Main drivers in siting the new facility were proximity and functional relationships to existing Building A, AT/FP setbacks for roadways and parking, existing service drive and parking lot locations, and Transitional Surface clearances from adjacent runway to the new facility. All of these factors contributed to the net buildable area available on the site. The site design included civil and structural services, surveying and environmental permitting. (Cost: \$7 million)	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Waste Management – CNG, Waste Management Inc., Pompano Beach, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2013 N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal/Project Oversight. Engineering design of stormwater management and fire main extension for Waste Management site. The proposed improvements include bringing in compressed natural gas (CNG) lines to the existing site in order to fuel the vehicle fleet. The project scope involved drainage and parking lot improvements, expansion of a fire line and County/State permitting. The project is located on 20+/- acres along Powerline Road, un-incorporated Broward County. The project was a design build between ET Environmental and Waste Management Inc. of Florida. (Cost: \$150,000)	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Internal Road and Miller Drive Intersection, University of Miami, Coral Gables, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2012 N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Project Principal/Client Liaison. Design preparation of construction documents for an internal circulation roadway throughout the University of Miami campus. The lead project engineer for the production of paving and grading, water and sewer and roadway plans for various phases of the projects that the University must complete in order to comply with several City of Coral Gables ordinances. (Cost: \$100,000)	<input checked="" type="checkbox"/> Check if project performed with current firm	

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Paul Thornbury	Environmental/Contamination Services	a. TOTAL 33	b. WITH CURRENT FIRM 17

15. FIRM NAME AND LOCATION (City and State)
Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
<ul style="list-style-type: none"> Bachelor of Science, Soil and Groundwater Remediation, State University of New York at Genesee, 1986 	n/a

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Paul Thornbury is an experienced Senior Environmental Scientist, having conducted numerous hydrogeologic assessments, developed remedial action plans, supervised soil and groundwater remediation system installations and tank removals, prepared real estate transfer audits, and completed regulatory compliance studies. His role as a project manager includes development of work scopes and preparing cost estimates, implementation of assessment and remedial action plans, budget tracking, client communication, and regulatory negotiations. His experience includes conducting site assessments to delineate contaminant plumes, environmental property transfer audits, asbestos surveys, supervising underground storage tank removals and site remediation projects including large excavations, performing hazardous waste cleanups, and sampling and profiling hazardous waste. He has extensive experience with petrochemical industry clients.

Before joining Wood, Mr. Thornbury served as Environmental Assessment and Remediation Manager for an environmental services company, where he was responsible for the oversight of environmental assessment and remediation projects. He also served as operations manager for Fluor Daniel's South Florida office, where he was responsible for resource commitment, coordination, and oversight of environmental assessment and remediation projects.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	Site Assessment and Natural Attenuation Monitoring, Sugarloaf Lodge and Marina, Sugarloaf, Florida	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. Performed site assessment activities including soil gas surveying, monitoring well installation, groundwater sampling, intrinsic bioremediation sampling, aquifer testing, tidal study, and plume stability analysis. Based on site assessment data developed for the site, a Natural Attenuation Monitoring (NAM) Plan was submitted and approved by FDEP. (Cost: \$85,000)		
b.	Site Remediation, Garrison Bight Marina, Key West, Florida	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. Responsible for design of modified remedial system that included site remediation of adsorbed and dissolved phase petroleum hydrocarbons in the vicinity of a former UST. Modified remedial system included soil vapor extraction (SVE), air sparging (AS) and treatment of extracted vapors by activated carbon. Remedial system operated trouble free 24 hours a day/ seven days a week for approximately two years. Work also included quarterly groundwater sampling, annual remedial progress reporting, and negotiations with local regulators regarding site closure requirements. (Cost: \$225,000)		
c.	Contamination Assessment, Port Everglades, Fort Lauderdale, Florida	2009	2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. Supervised one of the largest contamination assessment projects ever completed in Florida. Field activities included the installation and sampling of more than 850 soil borings and 575 monitoring wells. Other related activities included performance of an enhanced soil gas survey, aquifer analysis, tidal study, and salt water intrusion study.		
d.	Contaminant Assessment and Site Remediation, AIG Insurance, Various Locations	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. Site assessments and remediation at current and former gas service stations throughout Florida. Supervised the remedial design and installation of SVE and air sparge remedial systems at several sites to address petroleum hydrocarbon impact. (Cost: \$3.2 million)		
e.	Contaminant Assessment and Site Remediation, Hertz Corporation, Various Locations	2012	2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. Site soil and groundwater assessments and remediation at current and former Hertz Rent-A-Car and Hertz Equipment Rental facilities throughout the United States. Tasks included project management, coordination of site remediation, source removal, and correspondence with regulatory agency. Supervised removal and installation of fuel systems, site remediation involving recovery of free-phase petroleum product and reduction of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques. (Cost: \$350,000)		

f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Site Remediation, Chevron, Grand Cayman	PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Environmental services for site remediation involving recovery of free-phase petroleum product by both active (draw down) and passive (in-well skimming) techniques and treatment of pumped groundwater. Site includes three office buildings and 16 large, bulk storage tanks on approximately 5 acres. Developed and operated multiple free-product recovery systems in bulk storage terminal facility. Remedial action design reused existing, client-owned remedial equipment, reducing installation costs. Product recovery enhanced by active water table depression along with passive free product skimming in independent wells implemented to address free-floating petroleum product plume. Approximately 6,000 gallons of free product have been recovered. Responsible for coordination and supervision of subcontractors. (Cost: \$550,000)			
g.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Site Remediation, Chevron, St. Thomas	PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Site remediation involving removal of dissolved petroleum hydrocarbons by SVE/DPE and air sparging techniques and treatment of extracted vapors by catalytic oxidation at a half-acre retail building site. Performed Territorial Pollutant Discharge Elimination System (TPDES) permitting and monthly well gauging and reporting, quarterly groundwater sampling/reporting; and site closure negotiations with EPA and local regulators. Responsible for soil disposal stabilization. (Cost: \$255,500)			
h.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Contaminant Assessment and Remediation Design, Chevron, Grand Cayman	PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) 2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Performed a hydrogeologic investigation of a thin fresh water lens used as a drinking water supply which was impacted by LNAPL gasoline. Investigation included soil gas surveying, temporary well installation, permanent well installation, intrinsic sampling, aquifer testing, a tidal study, and mapping of sinkholes. Remedial piloting testing was performed which included soil vapor extraction, air sparging, and bioremediation. Risk-based closure criteria for source concentrations were negotiated with local regulators using Bioscreen model predictions to determine property boundary concentrations. Acted as project manager and coordinated the remedial system installation. (Cost: \$200,950)			
i.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Multiple Contamination Assessment and Remediation Projects	PROFESSIONAL SERVICES 2010	CONSTRUCTION (if applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Supervised and managed more than 125 petroleum contamination projects including assessments, remediation, and site closures. Project management activities included. development of contamination assessment plans consisting of site safety plans, quality assurance project plans, and field sampling plans for soil and groundwater; implementation and direction of initial remedial actions to remove excessively contaminated soils and free floating product; performance of field assessment activities for soil and groundwater contaminant plume definition; preparation of contamination assessment reports (CARs); completion of groundwater and soil pilot tests for determining remedial alternatives (such as aquifer pump tests, bail tests and vapor extraction pilot tests); and preparation of No Further Action Plans (NFAPs), Monitoring Only Plans (MOPs), Remedial Action Plans (RAPs), and site closure reports. (Cost: Varies)			
j.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Site Remediation, Chevron, Suriname	PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) 2009
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Performed site remediation including removal of dissolved petroleum hydrocarbons at a retail service station on a 3/4-acre site. Involved SVE and treatment of extracted vapors by catalytic oxidation, removing more than 3 gallons of petroleum per day (through SVE). Work included submitting weekly remedial progress updates to client, semi-annual groundwater sampling and reporting, negotiations with local regulators, and managing client risk. Responsible for design of SVE remedial system modifications. (Cost: \$150,000)			

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Rebecca Vanderbeck, PE	Climate Adaption/Resiliency Lead	a. TOTAL 17	b. WITH CURRENT FIRM 2

15. FIRM NAME AND LOCATION (City and State)
Wood Environment & Infrastructure Solutions, Inc., Jacksonville, Florida

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
<ul style="list-style-type: none"> Bachelor of Science, Environmental Engineering 	<ul style="list-style-type: none"> Professional Engineer Florida No. 64804, Wisconsin No. 39521-006

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Ms. Rebecca Vanderbeck has more than 17 years of experience in environmental engineering, including management of utilities and infrastructure improvement projects, stormwater control and site civil design, resiliency planning, site investigations and soil characterization, environmental compliance and permitting, and other aspects of environmental engineering design. In addition to her experience in consulting, Ms. Vanderbeck has served as Environmental Programs Engineer for Midwest Airlines and Assistant City Engineer for the City of Clermont. Through her experience, Ms. Vanderbeck has also been involved in identification of climate change risks and opportunities and the development of greenhouse gas emissions inventories. She has worked with clients developing sustainability programs and engaged with stakeholders on both municipal and private projects.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Resilience Planning and Implementation, City of St. Augustine, Florida	Ongoing	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
a. Project Manager. Working with the City to develop a resilience plan that will allow the City to embed resilience into critical infrastructure within the City, proactively address shocks and stresses that can impact the City, and drive implementation of projects that can have the greatest impact across the social, economic, and environmental areas for the citizens of St. Augustine. (Cost: \$25,000)		
Sustainability Plan Development, City of St. Augustine, Florida	Ongoing	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
b. Project Manager. Working with the City to develop a sustainability plan that can be used to identify, prioritize and plan the range of integrated projects that will allow the city build sustainability across the city departments and services. (Cost: \$12,590)		
Isle of Palms Channel Dredging, Isle of Palms Special District, Duval County, Florida	Ongoing	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
c. QA/QC Review. Technical reviewer for the dredging of sediments from nearly 6 miles of Isle of Palms waterways adjacent to the properties within the District’s boundaries to enable continuing access to the Intracoastal Waterway. Ms. Vanderbeck assists in professional engineering, environmental, and other necessary field survey services reviews to evaluate how to best remove accumulated sediments and to improve visual aesthetics and to facilitate safe casual boating within the Isle of Palms District Waterways. (Cost: \$66,000)		
Millers Creek Dredging, Millers Creek Special District, Duval County, Florida	Ongoing	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
d. QA/QC Review. Technical reviewer for a multi-phase project to determine the feasibility, permit, plan, and dredge roughly 60,000 cubic yards of dredged material from the District’s waterways to enable continuing access to the Intracoastal Waterway. Task includes providing professional engineering, geotechnical biological, environmental, and other necessary field survey services to evaluate how to best remove accumulated sediments and to improve visual aesthetics and to facilitate safe casual boating within the Millers Creek District Waterways. (Cost: \$41,000)		
Vilano Boat Ramp Dredging and Geotechnical Data Collection Services, St. Augustine County, Florida	2017	N/A
<input checked="" type="checkbox"/> Check if project performed with current firm		
e. Contract Manager/Project Manager. Currently serving as Contract Manager for our Professional Engineering Services Contract with the County. Recent project included iQA/QC Review. Implementation of a multi-phase marine sediment testing program for the dredging of Vilano Boat Ramp with . Reviewed field-data collection services (geotechnical investigation and beach-quality sand evaluation) and dredging template (design and drawings). Results of the sample collection were used by the County to clarify the scope for the dredging contractor. Cost: \$31,000)		

f.	(1) TITLE AND LOCATION <i>(City and State)</i> Sustainability Services, CDP Response Assistance and Emissions Verification, Southwest Airlines, Dallas, Texas	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager/Technical Lead. Assists Southwest with their response to the CDP Climate Change and Supply Chain Questionnaires on an annual basis. Information/data provided by Southwest is evaluated for purposes of responding to relevant questions that comprised the CDP Questionnaire. (Cost: \$16,500)		
g.	(1) TITLE AND LOCATION <i>(City and State)</i> Dredged Material Management Area Improvement Services, Duval County, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Technical Lead. Ms. Vanderbeck assists in the evaluation of existing conditions in JAXPORT's federally authorized navigation channel and port facilities, reviewed existing land holdings for land suitability to handle dredged material, segregating the waterway and port facilities into operational reaches. (Cost: \$43,000)		
h.	(1) TITLE AND LOCATION <i>(City and State)</i> Sustainability Report Benchmarking Study, Nationwide	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager/Technical Lead. Performing a sustainability benchmarking study for a large trade organization that includes a literature review of current sustainability reports published by members of the trade organization and a development of a summary report outlining the results of the study. Responsible for review and analysis of the collected data to determine reporting trends both within the organization and for the industry as a whole. Completed previous versions of this benchmarking study in 2010 and 2012 under prior association. (Cost: \$40,000)		
i.	(1) TITLE AND LOCATION <i>(City and State)</i> Development Review, City of Groveland, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Engineer. Wood provides site/civil engineering code-compliance review services to the City for proposed development projects. Services include review of the development engineer's calculations and construction drawings, summary of design deficiencies relative to the City codes, and attendance at meetings. Applications are reviewed based on City ordinances, City construction standards and specifications, and industry standards. (Cost: Varies)		
j.	(1) TITLE AND LOCATION <i>(City and State)</i> Storage Pond System Berm Inspection, Rayonier Performance Fibers, Fernandina Beach, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(if applicable)</i> N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Engineer of Record. Project included the inspection of two 2.5-acre ponds for spent sulfide liquor (SSL) and hot concentrate extract (HCE), a 30-acre aeration lagoon, and a small sludge pond. Inspection was completed in general accordance with the Florida Department of Environmental Protection (FDEP) requirements for inspections of earthen dams as discussed in Chapter 62-672.500 of the FAC. (Cost: \$5,300)		

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Gregory Corning, PE	South Region Lead	a. TOTAL 10	b. WITH CURRENT FIRM 9

15. FIRM NAME AND LOCATION (City and State)
Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
▪ Bachelor of Civil Engineering, Florida Atlantic University, 2009	▪ Professional Engineer, Florida No. 79293

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

As a Project Engineer, Mr. Gregory Corning provides technical input and engineering analysis for projects involving project management, dredging and dewatering planning and design, stormwater design and permitting, environmental design and permitting, and construction administration, engineering, and inspection. Mr. Corning has participated in the design of dredging and dewatering projects, the analysis of dewatered sediments for potential beneficial reuse, the analysis of surface water quantity and quality stormwater pollutant loadings systems, and treatment of agricultural runoff by wetland systems throughout Florida. He has conducted field exploration and research on several environmental projects, such as sediment analysis for potential contaminants that affect disposal options, surface water assessment and monitoring, and wetland evaluations. He has assisted in the management and planning for dredging and dewatering, stormwater, and wetland projects from the design and permitting stage through construction and final certification. Mr. Corning also possesses experience in the development of grant applications and construction documents such as request for proposals, drawings, technical specifications, and cost estimates.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	Monroe County Canal Restoration Demonstration Program, Monroe County, Florida	2016	2016
	<input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Wood is worked with Monroe County and the Canal Restoration Advisory Subcommittee of the Florida Keys National Marine Sanctuary Water Quality Protection Program to implement a canal restoration demonstration program consisting of implementation of various residential canal water quality improvements. The technologies implemented include weed barriers, organic removal, backfilling, culvert installation, pumping, and combinations of these technologies. The scope consisted of preparation of the design and permit packages for all the restorations; assistance with bidding the construction; and engineering support services during construction. Wood obtained all required permits, including a SFWMD ERP, a USACE individual permit, and a Florida National Marine Sanctuary permit. As part of the design scope, Wood completed all required environmental surveys, bathymetric and topographic surveys, sediment characterization, geotechnical evaluations, and hydraulic modeling. Wood also coordinated all homeowner approvals for staging areas and equipment installation. (Cost: \$5.2 million)		
b.	City of Dunedin Marina Dredging, City of Dunedin, Pinellas County, Florida	Ongoing	Ongoing
	<input checked="" type="checkbox"/> Check if project performed with current firm Technical Lead. Development and implementation of a multi-phase project to determine the feasibility, permit, plan, and dredge sediments from city marina, boat ramp, and entrance channel. Wood is providing dredged material management area design, environmental permitting, and technical team coordination for dredging, dewatering, and disposing of sediments from the significant city facility. (Cost: \$35,072)		
c.	Lake Manor Restoration Design and Permitting, City of Naples, Florida	2016	2016
	<input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. The project consisted of the design, permitting and public involvement, construction bid support, and construction administration and engineering and inspection services for the Lake Manor Sediment Removal and Public Amenities Restoration Project in Naples, Florida. The objectives of the project included completing dredging and dewatering design plans; preparing permit packages for state, federal, and local agencies; and completing request for bid package which included construction technical specifications and engineer's probable construction cost estimate. During the design and permitting phase, Wood coordinated with local agencies to determine a suitable beneficial reuse option for the approximately 16,000 cubic yards of sediment removed. Homeowner coordination meetings were completed to ensure that the homeowners along the Lake were informed on the parameters of the project. Upon completion of the design and permit phase, Wood provided construction administration and engineering and inspection services which included weekly site visits, monthly progress meetings, and review of contractor progress to ensure the project met the agreed upon contract schedule. (Cost: \$1.2 million)		
d.	Upper Suwannee Risk Mapping, Assessment, and Planning, Southwest Florida Water Management District, Live Oak, Florida	2016	n/a
	<input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer. Using ICPR, performed detailed and approximate studies of several closed basin flooding sources in Lake City, Florida; detailed studies of riverine flooding sources in northern Columbia County; and redelineation of the Suwannee River near White Springs. (Cost: \$700,000)		

<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Chassahowitzka Headspring Restoration Project, Southwest Florida Water Management District, Homosassa, Florida</p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Project Engineer. Responsible for design, permitting, and construction administration and engineering inspection services for the restoration of the Chassahowitzka headspring, which forms the headwaters of the Chassahowitzka River, an Outstanding Florida Water (OFW). Restoration activities included removal of the fine sands, silt, and organic matter that has accumulated throughout the headspring area. Technical challenges included minimization of impact to water quality (headsprings area is an OFW), the West Indian Manatee, and cultural resources. As such, the sediment removal plan was permitted through FDEP, FWC, USACE and SHPO. The final sediment removal design incorporated a dewatering plan that minimized turbidity impacts caused by the dewatering return water, a schedule that would not impact the wintering activities of the manatees in the headspring area, and a cultural resource screening and recovery plan. Wood provided construction administration and engineering and inspection services which included weekly site visits, monthly progress meetings, and review of contractor progress to ensure the project met the agreed upon contract schedule. (Cost: \$151,549)</p>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)
	2012	2012
	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Fisheating Creek, U.S. Department of Agriculture/Natural Resources Conservation Service, Okeechobee, Florida</p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Staff Engineer. Assisted with the design of the restoration system and construction drawings. Prepared permit applications, technical specifications, operation and maintenance plan, quality assurance plan, and bid specifications. Developed a conservation plan that identified how wetland functions and values will be restored, enhanced, protected, maintained, and managed to accomplish the goals of the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Wetlands Reserve Program (WRP). The plans were modeled to evaluate the effectiveness of the restoration elements in terms of long-term hydrologic restoration using the USDA-NRCS developed Soil Plant-Air-Water (SPAW) and Interconnected Channel and Pond Routing (ICPR) model. The models development included delineation of sub basins, spillway elevations, seepage rates, upstream/downstream relationships, and other applicable parameters for the model. The model outputs are used to develop inundation and depth maps depicting the extent and duration of the modeled hydrologic improvements. Project efforts include assessment of the general health and condition of the various habitats, identification of the presence of exotic and invasive species, and evaluation of current site hydrology. Project goals include development of conservation plan for the restoration of historical habitats, based on proper hydrology and vegetation community structure. (Cost: \$3.1 million)</p>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)
	Ongoing	Ongoing
	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Suwannee Lake Fish Management Restoration, Florida Fish and Wildlife Conservation Commission, Florida</p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Project Engineer. The project included the engineering design and permitting for an approximately 63-acre lake in Suwannee County, Florida. The design phase was broken into various stages, including a dewatering plan to remove approximately 130 million gallons of water from the lake using a cofferdam and pumps; excavating approximately 50,000 cubic yards of organic sediments using standard earth moving machines such as front end loaders and excavators; and recontouring the lake bed, increasing habitat complexity by installing a variety of habitat features and improving public access facilities. The permitting phase included obtaining an ERP from SRWMD and a nationwide permit from USACE. The project entailed holding various permitting and design meetings to ensure that the client and permitting agencies were informed on the parameters of the project and to ensure the project met the agreed upon contract schedule. (Cost: \$650,000)</p>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)
	2014	2014
	<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>(1) TITLE AND LOCATION (<i>City and State</i>)</p> <p>Village of Islamorada Canal Restoration Demonstration Project, Village of Islamorada, Florida</p> <p>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</p> <p>Project Engineer. Wood is working closely with the Village of Islamorada and the Canal Restoration Advisory Subcommittee of the Florida Keys National Marine Sanctuary Water Quality Protection Program to implement a canal restoration demonstration program consisting of implementation of various residential canal water quality improvements. The technologies to be implemented include weed barriers, organic removal, backfilling, culvert installation, pumping, and combinations of these technologies. The scope consists of preparation of the design and permit packages for all the restorations; assistance with bidding the construction; and engineering support services during construction. Wood initially assisted Monroe County in selecting the top ranked list of demonstration canals to be included in the program. Wood is obtaining all required permits, including a SFWMD ERP, a USACE individual permit, and a Florida National Marine Sanctuary permit. Wood is also working with the Canal Restoration Advisory Subcommittee to develop a streamlined permitting process for the restorations. As part of the design scope, Wood is completing all required environmental surveys, bathymetric and topographic surveys, sediment characterization, geotechnical evaluations, and hydraulic modeling. Wood is also coordinating all homeowner approvals for staging areas and equipment installation. (Cost: \$200,000)</p>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (<i>if applicable</i>)
	Ongoing	Ongoing
	<input checked="" type="checkbox"/> Check if project performed with current firm	

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Ashok Aitharaju, EI, PMP		Environmental/Contamination		a. TOTAL 19	b. WITH CURRENT FIRM 18
15. FIRM NAME AND LOCATION (City and State)					
Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
<ul style="list-style-type: none"> ▪ Master of Science, Environmental Engineering, Lamar University, 1993 ▪ Master of Business Administration, Marketing/Business Development, Pune University, 1990 ▪ Bachelor of Science, Mechanical Engineering, Kakatiya University, 1987 			<ul style="list-style-type: none"> ▪ Engineer Intern, Florida No. 1448309 ▪ Project Manager Professional Certification 		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					
Mr. Ashok Aitharaju has 19 years of experience in environmental engineering representing city, county, state, and private clients in contamination assessment, remediation, environmental permitting, drinking water systems testing, and surface water testing. He has performed Phase I and II ESAs, UST removals, remediation, and site closures involving hydrocarbon releases, solvent contamination, and other contamination generated from varying industrial processes. Mr. Aitharaju has performed remedial action monitoring and hydrogeologic assessments for petroleum-contaminated and non-petroleum sites. His consulting engineering experience includes project scope development, proposal preparation, planning, interpretation of field and laboratory data, project management, project health and safety, efficient resource and time management, client interaction, communications with regulatory agencies, and report preparations.					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Las Olas Boulevard Groundwater Monitoring, City of Fort Lauderdale, Florida				PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
<p>a. Project Manager. The project included the preparation of scope and cost estimates, scheduling, and managing the field activities, regulatory agency communications, and project and budget management. Perform quarterly monitoring events to monitor isopropylbenzene and polynuclear aromatic hydrocarbons in the groundwater. Prepared a remedial action plan for removal of contaminated soil to expedite the remediation process to construct the proposed replacement pump station. Assisted the City with the bid specification preparation for the bid package for handling of contaminated soil and groundwater during construction of the pump station. It included the site safety and environmental issues, such as free product and contaminated soil removal and handling, contaminated water dewatering, surface water controls, environmental permitting, and waste handling, etc. (Cost: \$100,000)</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Opinion of Cost, Miami-Dade County Aviation Department, Miami, Florida				PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (if applicable) n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
<p>b. Project Manager. Provided consulting services to document the costs spent on environmental projects at Miami International Airport (MIA) and to project the cost of moving forward with assessment and remediation at the airport. The project initially was focused on a consent agreement between MDAD and the local regulatory agency, Miami-Dade Department of Environmental Resources Management (DERM). There was also a consent agreement between MDAD and FDEP, and several sites were identified in the agreement. The project evolved from the initial scope, which projected clean up levels of soil to "clean fill" and clean up of groundwater to Florida Groundwater Cleanup Target Levels of the Florida Administrative Code. (Cost: \$590,000)</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Stormwater Sampling Program, Miami-Dade County Aviation Department, Miami, Florida				PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
<p>c. Project Manager. Provided environmental services for water quality sampling/monitoring program which included monthly stormwater sampling, data review, and reporting. Responsible for weather monitoring, collection of surface water samples from 6 outfalls and 3 best management practice sampling areas. Chemical analyses included oil & grease, nutrients, Biological Oxygen Demand, Chemical Oxygen Demand, Total Recoverable Petroleum Hydrocarbons, total and fecal coliform, cyanide, and ammonia. In addition, field data included the collection of dissolved oxygen, conductivity, pH, and temperature. (Cost: \$90,000)</p>					
(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED	
Building 2129 Pump Test, Miami International Airport, Florida				PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) n/a
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm			
<p>d. Project Team Member. Oversaw the delineation of a deep solvent plume, aquifer testing, groundwater sampling, and pilot test. The scope included review of the reports prepared by others and scope development and proposal preparation for aquifer pump test. Prepared a pump test addendum report, coordinated, scheduled and staffed well installations, pre-pump test sampling, and aquifer testing. Coordinated staff, equipment, and subcontractor for pump test and post pump test sampling and data analysis. (Cost: \$145,000)</p>					

(1) TITLE AND LOCATION (City and State) Emergency Diesel Fuel Spill Response, Source Removal, and Site Closure, Beckman Coulter, Inc., Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2013 n/a	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Role included preparation of scope and cost estimates, scheduling and managing the field activities, liaison with regulatory agencies and guidance for report preparations, and project and budget management. Managed and coordinated source removal and backfill activities related to the release of 300 to 500 gallons of diesel fuel from an emergency day tank. Emergency cleanup services included excavation and disposal of approximately 2,100 tons of impacted soils, 25,000 gallons of petroleum contact water, and regulatory negotiations to obtain site-closure. Performed post source removal site assessment for soil and groundwater delineation and prepared source removal and site assessment reports and addendums. Activities included field oversight, management of subcontractors, and report generation. Also managed several other projects, including air samples for lead dust and mercury and a Phase II ESA to evaluate the potential impacts from paint cleaning solvents and assessment of the former underground wastewater pre-treatment tank, mercury testing inside the building and abatement, sanitary sewer removal and closure, and emergency fuel spill response. (Cost: \$140,000)		
(1) TITLE AND LOCATION (City and State) Baseline Audits, Miami-Dade County Aviation Department, Miami, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) Ongoing n/a	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Coordination with the tenant and MDAD properties to schedule tenant inspections and review of tenant's existing environmental permits. The inspection also includes review of tenant's operations and interview with the tenant's representatives. A review of existing environmental reports that have been previously prepared for the subject property. Wood environmental professional performed site reconnaissance to identify and document apparent visual indications of past or present land use activities that may pose a hazard to the environment. The reconnaissance was performed by walking and driving reasonably accessible areas. The review of existing information included online review of readily available DERM files. We also review tenant best management practices and secondary containment for storage of chemicals. (Cost: \$110,000)		
(1) TITLE AND LOCATION (City and State) Environmental Remediation and Conditional Closure, OTO Development, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2009 n/a	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Managed environmental tasks including Phase I and II ESAs, soil and groundwater contamination delineation, remedial action plan, source removal plans, dewatering design, and permitting. Also managed dewatering activities and prepared engineering and institutional control package. Other tasks included fieldwork coordination, scheduling, staffing, regulatory negotiations, reporting, project management, quarterly groundwater monitoring, NFA with conditions closure package preparation, and coordination with client attorneys and other administrative staff for site specific legal documentation for covenant preparation. (Cost: \$397,000)		
(1) TITLE AND LOCATION (City and State) Former Red Top Sedan Site Soil Remediation, Miami International Airport, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2010 n/a	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Coordinator. The site is a 20-acre property utilized for the storage and maintenance of airport shuttle buses. Several USTs containing diesel fuel, oil water separator, waste oil tank, and several hydraulic lifts were removed from the site. As a result of the UST leak, a large area of the property had free floating product, and the soil and groundwater was contaminated. A remediation system was installed and several million gallons of petroleum impacted groundwater was treated. A traffic plan was prepared and implemented to ensure that there was no interference to bus parking and bus wash areas due to field activities. Worked closely with MDAD and DERM representatives during proposal preparation to develop the appropriate scope of work for each phase of the assessment. Wood was able to complete the assessment activities within the proposed budget, and no change orders were required. (Cost: \$343,000)		
(1) TITLE AND LOCATION (City and State) Seaport Drainage Well Redevelopment and Testing, Miami-Dade County, Florida	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (if applicable) 2007 2007	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Manager. Provided cleanout, redevelopment, and testing of 47, 24-inch diameter storm sewer deep-drainage wells, each approximately 110 feet deep. Work also included cleanout of baffle structures, drainage inlets, drainage pipes (13,000 linear feet total), and trench drains. The project also included removal and disposal of sediments. Responsible for preparing bid package for submittal and negotiating with subcontractors; executing performance bond; managing project personnel and subcontractors; and conducting weekly meetings with client representatives and preparing weekly updated schedules, including safety/security procedures and client-specific invoicing. Also prepared and submitted several interim progress reports and a final report. (Cost: \$822,690)		

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Peter Hall, CG, CEA	Climate Adaption/Resiliency	a. TOTAL 35	b. WITH CURRENT FIRM 32

15. FIRM NAME AND LOCATION (City and State)
Wood Environment & Infrastructure Solutions, Inc., Portland, Maine

16. EDUCATION (Degree and Specialization)	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)
<ul style="list-style-type: none"> ▪ Bachelor of Science, Geology, St. Lawrence University, 1984 ▪ Graduate Certificate, Integrated Management, University of Southern Maine School of Business, 1994 	<ul style="list-style-type: none"> ▪ Certified Geologist (Hydrology Spec.), Maine No. GE293 ▪ Envision Sustainability Professional Credential (in process) ▪ INTELEX EMS/IMS Training and Certification ▪ Certified Environmental Auditor, United States No. 1499A (Institute of Environmental Management and Assessment - UK) ▪ ISO 26000 Social Responsibility Registered Presenter ▪ OSHA 40-hour HAZWOPER Safety Hazardous Materials

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Peter Hall is a Principal Consultant at Amec Foster specializing in EHS compliance, management systems and sustainability/resilience planning. Mr. Hall is the Professional Practice Lead for Sustainability & Resilience and is the Sustainable & Resilient Infrastructure/Operations Segment Leader on the Amec Foster Wheeler Water and Transportation Sector Leadership team coordinating resources across the organization. He is an Amec Foster Wheeler Environmental, Health and Safety Management Systems Working Group (WG) Leader supporting a range of organizations with the development and implementation of ISO 14001 EMS/OHSAS 18001 H&S programs that are increasingly supporting sustainability and climate change resiliency. He also is the Amec Foster Wheeler Director for the firm’s platform partnership with the 100 Resilient Cities organization and is responsible for supporting resiliency solutions across global Cities in the 100RC network. He is based in the Portland, Maine office and has been with the firm for over 30 years. Mr. Hall has supported the global ABB organization with compliance related audits and environmental/sustainability related services for more than 15 years and co-authored the 1998 ABB “Practical Guide for Documentation and Implementation of an EMS” used to secure ISO 14001 registration at hundreds of ABB sites.

His areas of expertise also include the stakeholder reviews, sustainability gap assessment/reviews, EHS management systems and the application of Amec Foster Wheeler project sustainability and management (PSM) procedures to incorporate sustainability and climate change related planning into environmental and infrastructure projects. These process tools are applied to the entire life-cycle of selected activities and operations and have typically related to water planning, emergency response, oil storage/management, and infrastructure related planning for storm related issues and impacts. Mr. Hall’s background in management systems have been applied to a range of organizations looking to incorporate resilience to natural hazards and climate change into regional and local land use planning, decision-making, and implementation practices. He has supported Amec Foster Wheeler’s pursuits for climate change adaptation/resiliency planning, utility sustainability KPIs, sustainability planning for mining and airport sustainability planning projects.

19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
Resiliency Team Support Professional Guidance, City of Miami Beach, Florida	PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable) N/A	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm		
Advisor. Providing guidance on the 100RC city resilience framework along with a range of resilience services and expertise to support the City of Miami Beach Residency Team and its “Miami Beach Rising Above” Resiliency Strategy Work Plan. (Cost: \$10,000)			

(1) TITLE AND LOCATION (<i>City and State</i>) 100 Resilient Cities (Pioneered by the Rockefeller Foundation), Nationwide	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) Ongoing N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Wood/100RC Platform Partnership Director. Coordinating and delivering resilience services to global cities in the 100RC network. As the partnership director for our firm I coordinate resilience solutions that address current and future vulnerabilities for 100RC cities which can include: <ul style="list-style-type: none"> ▪ Extreme weather forecasting/flood warning services which will allow cities to incorporate resiliency into their infrastructure and operations ▪ Critical asset data management to help cities identify, prioritize, and track key critical city assets that are most vulnerable to shocks and stresses ▪ Green infrastructure planning and emergency management response ▪ Water scarcity and security ▪ Tactical action plans for resilience implementation and grant applications, which allow our clients to bridge from planning to action and obtain funding for specific resilience projects <p>Have attended Chief Resilience Officer (CRO) and Platform Partner workshops in San Francisco, London, and Mexico City and coordinated resources that have participated and applied the 100RC City Resiliency Framework (CRF) at several cities which have included Pittsburgh, London, San Francisco, Boston, Tulsa, and Dallas. Co-led with 100RC resiliency planning workshops for New York City Transit, the City of Boulder, and Navy Station Norfolk, and recently co-led a workshop on “maximizing resilience value through project design and implementation” with the 100RC Program Director and the Global Infrastructure Basel Foundation at the November 10–13, 2015 100RC Global CRO/Partner Summit in Mexico City. As a 100RC platform partner, Wood is engaged with New York City and Norfolk on city resilience implementation support. Recently supported Nashville, Tennessee and Portland, Maine with their 100RC grant applications working directly with the Mayors and City CEOs in each city. (Cost: \$100,000)</p>	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) EHS Consultation, Business Continuity, Training and Global Audits, Worldwide	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) 2014 N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Avaya East Region Manager. Supported Avaya’s BCP group with elements of the Avaya communications framework for incident managers and facility managers at facilities impacted by the 2012 Hurricane Sandy event. Responsible for the overall development and implementation of a wide-range of projects, including property transfers, EHSMS and compliance training, EHS program development, compliance performance evaluation (CPE) audits, general consulting, and strategic planning. As the Global EHS Management System Lead, supported the Avaya Global Business Continuity Program (BCP) director with training, communications, procedures, and planning services. In this role, Amec Foster Wheeler supported Avaya with their “roadmap” for continuing operations under adverse conditions (such as climate change and storm related events) and included scenarios such as damage to critical infrastructure (major machinery or computing/network resource). Was a member of the Avaya Corporate Green Team that is supporting this organization’s sustainability initiative to reduce the Avaya carbon footprint across operations and activities. (Cost: \$250,000)	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (<i>City and State</i>) Environmental Management Plan, Nationwide	(2) YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION (<i>if applicable</i>) Ongoing N/A	
(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE EMP and Site Investigation Lead. Responsible for supporting NOAA/National Environmental Satellite, Data and Information Service (NESDIS) with the development of an EMP that is a decision-making tool for establishing environmental and resiliency goals and long-term continual improvement objectives consistent with ISO 14001 criteria. (Cost: \$160,000)	<input checked="" type="checkbox"/> Check if project performed with current firm	

A. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Stephen Hanks, PE, LEED AP		Modeling		a. TOTAL	b. WITH CURRENT FIRM
				15	13
15. FIRM NAME AND LOCATION (City and State) Wood Environment & Infrastructure Solutions, Inc., Miami Lakes, Florida					
16. EDUCATION (Degree and Specialization)			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
<ul style="list-style-type: none"> Master of Science, Hydrologic Sciences, University of Florida, 2011 Bachelor of Science, Land and Water Engineering, University of Florida, 2005 			<ul style="list-style-type: none"> Professional Engineer, Florida No. 72253, USVI No. 1270-E LEED Accredited Professional 		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) As a Senior Engineer, Mr. Stephen Hanks is a valuable resource in a range of engineering services, including surface water modeling, water quality assessment, and wetland and stormwater permitting. Mr. Hanks has a portfolio of water resources engineering services for water management districts, county municipalities, and parks departments. Mr. Hanks' responsibilities include design and analysis, technical writing, and field sampling. Additionally, Mr. Hanks has extensive experience in a range of environmental services, including remediation, human health risk assessment, and fate and transport modeling. His petroleum site remediation services emphasizes free product recovery, bio-enhancement applications, and natural attenuation modeling. Mr. Hanks' environmental services experience includes petroleum companies, insurance providers, and retail facilities.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Canal Restoration Demonstration Program, Monroe County, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
			2016	2016	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	<p>Senior Engineer. Completed the design for six demonstration projects consisting of two culverts, one backfill, two organic removal projects (one with an air curtain), and one air curtain. Evaluated survey and site data to complete design activities and develop engineering cost estimates. Assisted with the preparation of bid documents, directed contractors throughout project execution, and evaluated project conformance with specifications. Post construction monitoring demonstrated success of the projects, with the most significant being the reestablishment of seagrass in the backfilled canal less than one year after the completion of construction. (Cost: \$5.2 million)</p>				
b.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Hydrologic Routing and Budget, St. Croix, U.S. Virgin Islands		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
			2015	n/a	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	<p>Senior Engineer. Used 30 years of climate data to develop a hydrologic budget to estimate the irrigation requirements for revegetation of a closed disposal pond. Additionally, a hydrologic routing evaluation was completed to support the design of a stormwater system to stabilize the disposal pond. (Cost: \$898,000)</p>				
c.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Sugarloaf Marina, Chartis Insurance, Sugarloaf Key, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
			Ongoing	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	<p>Senior Engineer. Responsible for the evaluation of plume stability utilizing the Monitoring and Remediation Optimization System (MAROS) software. The plume stability analysis utilized three years of groundwater monitoring data from more than 22 monitoring locations and was utilized to demonstrate that the site qualified for conditional closure pursuant to Risk Management Option (RMO) Level III. The stability analysis was used in conjunction with a non-potable exposure scenario to demonstrate that no potential human health risk was present from exposure to particulates, vapors, and dewatering activities. (Cost: \$85,000)</p>				
d.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Garrison Bight Marina, Chartis Insurance, Key West, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
			Ongoing	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	<p>Senior Engineer. Achieved No Further Action (NFA) with conditions with the non-potable nature of the aquifer at the site due to marine salts as the institutional control that prevented potential exposure; effectively achieving conditional closure pursuant to Risk Management Option (RMO) Level II without a deed restriction. (Cost: \$225,000)</p>				
e.	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		
	Flushing Culvert Design, Monroe County, Florida		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
			2015	n/a	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
	<p>Senior Engineer. The project involved completing a tidal study, collecting bathymetric survey data, completing a wetland survey, and developing a hydraulic model to design and permit a flushing culvert to hydraulically connect two stagnant canals in Geiger Key. Responsible for developing a hydraulic model that was used to determine the flushing of the current canal configuration, and to quantify the likely increase in flushing for the proposed canal configuration. The hydraulic model was used to appropriately size the flushing culvert so that sufficient flushing was achieved and detrimental velocities or scour would not occur. (Cost: \$100,000)</p>				

f.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Canal Management Master Plan Phase II, Monroe County, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Engineer. The project involved creating a phased canal management master plan for the Florida Keys to prioritize canals that need water quality improvement and to select appropriate restoration technologies. The project was funded by an EPA grant and involved completing the canal management master plan for the entire Florida Keys and developing a priority of list of locations that require water quality improvements. All of the 502 residential canals were evaluated through field visits to determine the degree of water quality impact. Extensive homeowner interviews and meetings were performed. The canals were ranked by need for water quality improvement. An updated GIS database was prepared that incorporated the new information obtained on the Keys canals related to water quality and restoration options. (Cost: \$100,000)		
9.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Expert Review of Sediment Control Improvements, U.S. Army Corps of Engineers, Georgia	PROFESSIONAL SERVICES 2014	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Engineer. The project involved completing a tidal study, collecting bathymetric survey data, completing a wetland survey, and developing a hydraulic model to design and permit a flushing culvert to hydraulically connect two stagnant canals in Geiger Key. Responsible for developing a hydraulic model that was used to determine the flushing of the current canal configuration, and to quantify the likely increase in flushing for the proposed canal configuration. The hydraulic model was used to appropriately size the flushing culvert so that sufficient flushing was achieved and detrimental velocities or scour would not occur. (Cost: \$100,000)		
h.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Hydrologic and Hydraulic Modeling for an Early Site Permit, PSE&G, New Jersey	PROFESSIONAL SERVICES 2009	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Engineer. Responsible for hydrologic modeling using HEC-HMS and hydraulic modeling using HEC-GeoRAS software. Determined the Probable Maximum Precipitation (PMP) storm event for a 13,000-square-mile watershed and evaluated the corresponding Probable Maximum Flood (PMF) elevation. Additionally, inundation mapping for more than 500 river miles was performed for the seismically induced failure of the major reservoirs within the watershed, as well as the inundation resulting from the propagation of the hydraulic surge associated with the Probable Maximum Hurricane (PMH). (Cost: \$479,484)		
i.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Bayfront Park Water Quality and Hydraulic Evaluation, Miami-Dade Parks Department, Florida	PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Engineer. Responsible for water quality assessment, hydraulic modeling pursuant to the SFWMD recommended method of culvert evaluation, and preparation of the water quality assessment and hydraulic evaluation reports. The scope of services included hydraulic modeling of a 3-acre tidal pool and tributary bay in three different operating situations, water quality assessment of the area of study, and professional recommendations for design based on the results of the hydraulic model. (Cost: \$9,960)		
j.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Dredging and Bank Stabilization Services for East Central Region Canal Conveyance Program, Various East Region Locations, Florida	PROFESSIONAL SERVICES 2008	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Engineer. Used a Triangulated Irregular Network (TIN) model prepared from field survey data in conjunction with HEC-GeoRAS to perform a water surface profile analysis of about 100 miles of drainage canals located throughout Okeechobee and Palm Beach counties. Provided engineering services in conjunction with dredging and bank stabilization projects and structural operations for Okeechobee and West Palm field stations of the District's Canal Conveyance Capacity Program, a multi-phase program to identify and schedule/prioritize dredging and restoration services and operational controls for the canal systems to restore capacity in locations affected by siltation, encroachments, and other forms of blockage. (Cost: \$525,000)		
k.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Jack Creek Hydrologic and Wetland Restoration, Southwest Florida Water Management District, Highlands County, Florida	PROFESSIONAL SERVICES 2011	CONSTRUCTION (if applicable) n/a
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Engineer. The project consisted of design and permitting for the hydrologic and natural systems restoration of impacted wetlands on the Jack Creek Tract in Highlands County. Plans included restoring groundwater levels by modeling, designing, and permitting inflow pipes and a bubble up structure from Jack Creek into the wetland to saturate the area and installing a sheet pile wall to maintain the water levels in the wetland. Responsible for hydrologic modeling using Visual MODFLOW and SPAW to evaluate the potential benefits from various rehydration alternatives for the impacted wetland community. The model results were used to select the desired alternative, design the alternative to meet site constraints, and prepare construction documents of restoration of a cypress and bay swamp. (Cost: \$475,000)		



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME ADEBAYO COKER, PE	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION <i>(City and State)</i> HBC Engineering Company, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer, Florida-No. 55322	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 4, I-595 CORRIDOR ROADWAY IMPROVEMENTS PROJECT, BROWARD COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009-2014	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Performed interdisciplinary coordination of structural, geotechnical, utilities, drainage, MOT, SUE, and surveying for this Private-Public Partnership project (P3) which extends from I-75 to I-95. The project length was approximately 14 miles. Reviewed engineering design plans for roadway, utilities, drainage, ITS, signalization, structures, TCP and lighting. Coordinated and scheduled survey, geotechnical, CCTV, and SUE field activities.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> MDC DEPT. OF TRANS. & PUB. WK, TOTAL RECONSTRUCTION PROJECT ON NE 2 AVE. FROM NE 84 ST. TO NE 91 ST., MIAMI, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION <i>(If applicable)</i>
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Served as Lead Designer responsible for development and final production of plans. Project included design for drainage, lighting, signalization, roadway reconstruction as well as public involvement.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT D6, I-95 S. BOUND RIGID PAVEMENT REHAB. FROM NW 103 ST. TO NW 125TH ST, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012-2015	CONSTRUCTION <i>(If applicable)</i>
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for the rehabilitation of the existing concrete pavement of southbound mainline I-95 and three (3) ramps. Responsibilities include, but are not limited to, coordination with FDOT Maintenance and Traffic Management Center, coordination of personnel for the design activities and supervision of design of roadway and Maintenance of Traffic.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> MIAMI-DADE TRANSIT, DADELAND SOUTH PARKING LOT EXPANSION, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2008-2009	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Engineer of Record for site planning for the design of the parking lot expansion with over 98 parking spaces and the existing parking lot with over 180 parking spaces. Designed paving, grading, lighting, and drainage systems. Laid out the concept plans and ADA accessibility route for the entire parking including the existing lot. Prepared drainage report, pavement design, direction driveway access design, and coordinated the dry run permitting and landscape design.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, PROJECT DEVELOPMENT AND ENVIRONMENTAL (PD&E), MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 1996-2008	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE District Project Development Engineer who oversaw tasks including PD&E Studies, Resurfacing, Restoration and Rehabilitation (RRR) Scoping Report, and traffic report of Flagler Street 2nd Ave. to 27th Ave (CE2), NW 74th St. from 114th Ave. to SR 826 (Noise Study), Card Sound Road (EA), I-75 from County Line to SR 826 (EIS/ EA), Tamiami Canal Swing Bridge (EA), Alton Road from 5th to Michigan (CE2), I-395/SR 836 PD&E (EIS)		
<input type="checkbox"/> Check if project performed with current firm		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME GREGORY A. PRYTYKA, PE	13. ROLE IN THIS CONTRACT Traffic Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 38	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION <i>(City and State)</i> HBC Engineering Company, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer in Florida-No. 36868	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, SR 25/US 27/OKEECHOBEE ROAD FROM MIAMI-DADE COUNTY LINE TO SR 826, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018-ONGOING	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Project Engineer responsible for overall corridor review of roadway design, signing and pavement markings, signalization, and ITS plans for the reconstruction of this 10-mile section including four major interchanges. New conceptual designs were developed to improve traffic operations and increase capacity.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, SR 90/US 41/SW 8TH STREET ASCT PILOT PROJECT, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm b. Project Manager and EOR for the first Adaptive Signal Control Technology (ASCT) system installed in District 6. This Design-Build project was an implementation of Rhythm Engineering's InSync system at 29 intersections along the project corridor and included replacement of all traffic signal controllers and cabinets, new HD CCTVs, new conduit and pull box subsystems, upgrading pedestrian features and ADA retrofits.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 1, I-75 AT UNIVERSITY PARKWAY INTERCHANGE, MANATEE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm c. ITS Project Manager and EOR as a sub-consultant to HDR. This project represents construction of the first Diverging Diamond Interchange (DDI) in the State of Florida. Mr. Prytyka provided ITS design which included relocation and replacement of ITS devices affected by the roadway construction, new ITS devices, new ATMS devices, relocation of 2,500 feet of Fiber Optic Cable, and Installation of 4,500 feet of new 96 count Fiber Optic Cable.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 2, SR 23 (FIRST COAST EXPRESSWAY CLAY & DUVAL COUNTIES, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014-2016	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm d. Mr. Prytyka served as ITS Project Manager and EOR for the ITS plans which included CCTVs, MVDSs, DMSs, TTSSs, Local, Master Hubs, and dual 96 count fiber optic cable for ITS and Tolls for the length of the project. SR 23 is a 7.8-mile new toll facility being constructed in the Jacksonville Metro Area.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 2, I-295 EXPRESS LANES, DUVAL COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014-2016	CONSTRUCTION <i>(If applicable)</i>
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm e. Mr. Prytyka served as Project Manager and EOR for the ITS component of this project. This project includes the widening of 7.5 miles of I-295 in the Jacksonville Metro Area from an existing six (6) lane section to an eight (8) lane section including express lanes. Mr. Prytyka served as the ITS Designer for this \$90,000,000 Design-Build project. The ITS system provides CCTVs, MVDSs, and DMSs on the Buckman Bridge.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME JOSE A. LOPEZ, PE	13. ROLE IN THIS CONTRACT Civil Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 14	b. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> HBC Engineering Company, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> B.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer, FL No. 81014 Professional Engineer, Puerto Rico No. 21897	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> FDOT D6, DW PEDESTRIAN LIGHTING RETROFITS, SR 5/US 1, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2018-ONGOING	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer of Record in charge of designing Temporary Traffic Control Plan (TTCP) for 83 signalized intersections within a 21.5 mile stretch of US 1 spanning across Downtown Miami, Biscayne Blvd, Bayside in the City of Miami, Brickell Ave., The City of Coral Gables, City of South Miami, Village of Pinecrest, Village of Palmetto Bay, and Town of Cutler Bay. TTCP Design included a vehicular detour for ramp closure and ADA compliant pedestrian detour on a multi-lane road.		
(1) TITLE AND LOCATION <i>(City and State)</i> MDC DEPT. OF TRANS. & PUB. WK, DB ON NE 2 AVE FROM NE 69 ST. TO NE 84 ST. ROADWAY & DRAINAGE IMPROVEMENTS, MIAMI, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-ONGOING	CONSTRUCTION <i>(If applicable)</i>
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Deputy Project Manager responsible for the widening and reconfiguration design of 5016 feet of the four (4) lane roadway segment. Improvement design included the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, and sidewalk reconstruction. Design also involved new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, sign & pavement marking.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT D4, SR 80/SOUTHERN BLVD. FROM W. OF LION COUNTRY SAFARI RD. TO FOREST HILL BLVD./CRESTWOOD BLVD., PBC, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION <i>(If applicable)</i>
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer of Record responsible for designing the signalization system for 6 signalized intersections where high speeds over posted limits were reported. Design included new traffic signals for 5 signalized intersections and the addition of a new signal with advanced warning flashing beacons, advanced loops, and vehicle video detection cameras.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 4, HOLLYWOOD GARDENS SIDEWALK IMPROVEMENT PROJECT, BROWARD COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016-2017	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer who performed analysis and drainage design structures for a 40-acre area, which included French drains, electrical load and photometric analysis, 25,000 lf of sidewalk with the purpose of replacing existing damaged and missing gaps with ADA compliant sidewalk. Also prepared drainage report.		
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, SR 90/SW 8th ST. AND SW 157th AVE., SAFETY IMPROVEMENT PROJECT, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017-ONGOING	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Engineer of Record responsible for designing improvements to optimize safety and operations at the high-speed intersection of SR 90/SW 8th St. and SW 157th Ave., for a distance of 0.52 miles. Tasks consisted of widening the northbound lanes providing an exclusive free flowing left and right turn lane and widening of the eastbound and westbound accelerations lanes. Design also included shoulder reconstruction, milling and resurfacing.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME GERARD OSBORNE, PE	13. ROLE IN THIS CONTRACT Traffic Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 35	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION <i>(City and State)</i> HBC Engineering Company, Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> M.S., Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer, Florida-No. 81522 2016-present Professional Engineer, Florida-No. 54722 1999-2009	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, OKEECHOBEE ROAD AT NW 95TH STREET WEAVING ANALYSIS, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017-ONGOING	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Traffic Engineer and Project Manager for a detailed microsimulation study of a design modification for a corridor segment. The study was commissioned to determine potential operational issues and resulted in detecting critical factors that affected traffic flow. Also played a key role in communicating the recommended design and signalization improvements to a cross-functional team.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> COUNTYWIDE TRAFFIC DATA COLLECTION, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015-2016	CONSTRUCTION <i>(If applicable)</i>
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager (Section Head) of the Traffic Data Collection Program. Duties consisted of successfully managing an analyst team, properly preparing human resource documentation, representing the division during labor negotiations, carefully reviewing historical Unified Planning Work Program (UPWP) traffic data, diligently researching traffic data collection technology and equipment, properly prepare proposals, as well as, contract management.	<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 6, OKEECHOBEE ROAD CORRIDOR WIDE TRAFFIC MODELING, MIAMI-DADE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2017-ONGOING	CONSTRUCTION <i>(If applicable)</i>
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Traffic Engineer responsible for delivering an integrated Vissim microsimulation study that utilized Synchro for signal optimization and corridor synchronization. This was a complex microsimulation effort that began by integrating six (6) distinct segment models spanning a ten (10) mile section of SR 25/Okeechobee Road. Coordination of various aspects of this project was critical to its success. It included reconciling input parameters from the original models.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> DEERFIELD BEACH COMMUNITY REDEVELOPMENT AGENCY AND DEERFIELD BEACH CRA BEACH AREA TRAFFIC STUDY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager on a coastal community transportation master plan that balanced future land use demands and transportation needs to address mobility, traffic congestions/circulation, and special events traffic planning while ensuring public safety, environmental protection, and pedestrian bicycle connectivity.	<input type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> FDOT DISTRICT 1 SR 80 CORRIDOR , LEE COUNTY, FL	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2005	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager for a vehicle mobility program that included widening and complex signal coordination along a 6 mile roadway through downtown Ft. Myers, as well as, exercising the keen ability to interpret results to identify and mitigate issues. Improvements were implemented to the traffic flow between Ft. Myers and the Interstate system using traveling demand modeling which considered future land use growth.	<input type="checkbox"/> Check if project performed with current firm	



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Oracio Riccobono, P.E.	13. ROLE IN THIS CONTRACT Geotechnical Engineer	14. YEARS EXPERIENCE	
		A. TOTAL 33	B. WITH CURRENT FIRM 19
15. FIRM NAME AND LOCATION <i>(City and State)</i> GEOSOL, Inc.; 5795-A NW 151 st Street, Miami Lakes, FL 33014			
16. EDUCATION <i>(Degree and Specialization)</i> Civil Engineer (BSCE) and Master Degree (MSCE in Geotechnical Engineering)		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Registration No. 49324 (Florida, Civil Engineering)	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> American Society of Civil Engineers Florida Engineering Society			

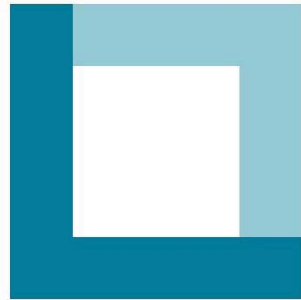
19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	a.	Districtwide Geotechnical Consultant, FDOT District 6 , from Monroe to Miami-Dade Counties	PROFESSIONAL SERVICES
2013 – 2018			N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Geotechnical Engineer responsible for negotiating each task work orders (TWO), planning the geotechnical exploration and laboratory testing programs, preparation of geotechnical engineering reports with foundation design and construction recommendations for new and existing roadway projects during Preliminary and Final Design phases. Project has budget cap of \$1.5 millions. To date, we have successfully executed 65 TWO and have spent \$1.4 millions.			
b.	SR 826 PD&E Study and Final Design, from I-75 to I-95 and on I-95, Miami-Dade County, FL, FDOT District 6.	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2012 - 2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Geotechnical Engineer responsible for planning geotechnical exploration and laboratory testing programs, preparation of geotechnical engineering report with foundation design and construction recommendations for widening and interchange modifications. along SR 826 and on I-95. Geotechnical fees \$1,300,000			
c.	I-395/SR-836/I-95 Interchange Improvements, Miami-Dade County, FL, FDOT District 6.	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2013 - 2019	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm
Project Geotechnical Engineer responsible for planning the preliminary geotechnical exploration and laboratory testing programs, preparation of the preliminary geotechnical engineering reports during preparation of Design-Build Documents for the new viaduct and signature bridges. Also, involved during construction reviewing and approving contractor's submittals and performing verification type testing. Geotechnical fees \$1,500,000			
d.		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		Check if project performed with current firm
e.		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		Check if project performed with current firm

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Adnan Ismail, P.E.	Senior Geotechnical Engineer	a. TOTAL 14	b. WITH CURRENT FIRM 14
15. FIRM NAME AND LOCATION (City and State) GEOSOL, Inc. – Miami Lakes, Florida			
16. EDUCATION (Degree and Specialization) B.S. Civil Engineering; M.S. Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Florida Professional Engineer No. 76014	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) M No. 250730-2-32-01, Districtwide Geotechnical & Materials Testing Contract, From Monroe to Miami-Dade Counties, FDOT District 6	(2) YEAR COMPLETED		
	PROFESSIONAL SERVICES 2016	CONSTRUCTION (if applicable) 2017	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Geotechnical Engineer assisting on over 200 work orders for projects located in FDOT Districts 4 and 6 during PD&E, final design and construction phases along 300 miles. Includes field exploration, laboratory testing, geotechnical analyses for roadways as well as preparation of geotechnical reports. Recent performance grade was 4.8. Client: FDOT, PM: Michael Kim, PE; Phone # (954) 677-7011	<input checked="" type="checkbox"/> Check if performed with current firm		
(1) TITLE AND LOCATION (City and State) FM No.: 249035-1-52-01, SR 826 Section 2 Design-Build, from Sunset Drive to Bird Road, Miami, FL FDOT District 6, Length = 2.5 miles	(2) YEAR COMPLETED		
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (if applicable) 2013	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Geotechnical Engineer assisting in planning and executing the field exploration and laboratory testing programs, interpreting the test results, performing foundation analyses and design of 8 bridges, approach embankments, MSE walls, noise walls and sign structures, 100% PDA testing, providing driving criteria, foundation certification packages, performed vibration monitoring and CSL testing. Client: FDOT. PM: Jason Chang, PE; Phone # (305) 470-5331	<input checked="" type="checkbox"/> Check if performed with current firm		
(1) TITLE AND LOCATION (City and State) FM No. 230368-1-52-01: SR 5/US 1 Reconstruction Design-Build, From North of SR 713/Kings Highway to South of Oslo Road/CR 606, St. Lucie & Indian River Counties, FDOT District 4, Length = 2 miles	(2) YEAR COMPLETED		
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (if applicable) 2016	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Engineer providing assistance with f geotechnical engineering reports, foundation certification packages for two (2) bridges, inspecting auger cast piles for noise barrier walls and drilled shafts for sign and mast arm structures. Performing pile driving inspections for 2 bridges and PDA testing. Performed vibration monitoring, and CSL testing on drilled shafts. Client: FDOT (c/o Mr. Ariel Millan, PE; BCC; Phone: 305.670.2350.)	<input checked="" type="checkbox"/> Check if performed with current firm		
(1) TITLE AND LOCATION (City and State) FM No.: 405665-1-52-01, NW 25th Street West Viaduct over SR 826, from NW 82nd Avenue to East of SR 826, Miami-Dade County, FDOT District 6, Length = 1.5 miles	(2) YEAR COMPLETED		
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (if applicable) 2016	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Geotechnical Engineer providing assistance with foundation certification packages for two (2) bridges, performed pile driving inspections, foundation certification packages for 2 bridges and sinkhole study during drilled shaft installation ground subsidence. FDOT, PM: Mr. Jason Chang, P.E. PE; Phone # (305) 470-5331	<input checked="" type="checkbox"/> Check if performed with current firm		
(1) TITLE AND LOCATION (City and State) FM No.: 434922-1-52-01: SR 90/Tamiami Trail, Design-Build, 2.6-Mile Bridging, Miami, FL.	(2) YEAR COMPLETED		
	PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable) Ongoing	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Senior Geotechnical Engineer for design & construction responsible for field exploration & laboratory testing programs, foundation analyses & design, and geotechnical reports, which included 100% PDA testing of 650 piles, Statnamic load testing, foundation certification packages and vibration monitoring, MSE walls and roadway construction. Client: FDOT (c/o: Stantec; Luis Lazo, PE; Phone: 305.445.2900.)	<input checked="" type="checkbox"/> Check if performed with current firm		



**LONGITUDE
SURVEYORS**

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Eduardo M. Suarez, PSM	13. ROLE IN THIS CONTRACT Principal Surveyor & Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 15

15. FIRM NAME AND LOCATION *(City and State)*

Longitude Surveyors, 7769 NW 48 Street, Suite 375, Doral, FL 33166

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>
<ul style="list-style-type: none"> Associates Degree in Engineering Studies, Miami-Dade College 1993 	<ul style="list-style-type: none"> Professional Surveyor & Mapper #LS6313 State of Florida Florida Surveying & Mapping Society

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Micro SBE,DBE,CBE, 15.01- Surveying & Mapping, 15.03- Underground Utility Location, 8.1- Control Surveying, 8.2-Design, Right-of-Way & Construction Surveying, and 8.4- Right-of-Way Mapping, FES Chapter Director (Miami), ASCE 2016 Employer of Year

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Red Road Traffic Diverters, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Principal in Charge: LS performed a Topographic Survey that included the following information: Paved areas, edge of pavements, sidewalks, flow lines, back of curbs, walls, trees, palms, hedges, walkways, entrances, signs, pavement markings, signal mast arms, catch basins, manholes, inlets, valves, valve boxes, guardrails, light poles, meters, electric boxes, power poles, overhead lines, fire hydrants, utility pedestals, etc. LS provided a graphical baseline only. The limits were from right of way to right of way along Red Road at the intersections of Algardi Avenue, Cantoria Avenue, and Garcia Avenue located in Coral Gables, FL. Cost: \$4,700.00		
Speed Tables, Coral Gables FL	2016	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Principal in Charge: LS performed Topographic Surveys to include the following information: The survey will include the following: sidewalks, edges of pavement, utilities, manholes, poles, fences, driveways, catch basins, trees and all aboveground improvements. LS will provide the following for all drainage structures; rim elevation, inverts, pipe direction and material, when possible. R/W and property lines for the project area and adjacent properties included based on Public information available to the public. Cross sections taken at 10-foot intervals. Control points set outside the limits of the survey. Set in locations to be used by the contractor during future construction. Cost: \$3,900.00		
2020 Salzedo Street, Coral Gables, FL	2015	2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Principal in Charge: LS prepared and performed the following surveying services: Construction stakeout, foundation survey, pile layout, established benchmarks, and control lines. Cost: \$10,720.00		
6001 Mall Street, Coral Gables, FL	2014	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Principal in Charge: LS prepared and performed a construction layout to locate pool steel structure and re-layout perimeter wall, and layout wall fence. Additional surveying services included: reflecting crown of road, four property corner elevations along with utility boxes on site for water/FPL. Cost: \$5,800.00		
Parking Lot # 30 - Along the N.E. corner of Almeria Avenue and Galiano Street, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Principal in Charge: LS performed a Boundary/Topographic Survey to include the following information: Collected all the following aboveground improvements; building facades, sidewalks, curbs, catch basins, signs, islands, entrance, gates, parking meters, alley, etc. Longitude performed cross-sections around the perimeter of the parking garage approximately every 50-feet. The cross sections entailed the following: crown of road, edge of pavement, top of curb, back of sidewalk and all high and low points. LS collected elevation shots within the parking lot consistent with a 50-foot grid. LS collected all existing drainage information such as: rim elevation, pipe size, pipe material, pipe direction and inverts. Cost: \$3,900.00		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME John H. Adler, III, PSM	13. ROLE IN THIS CONTRACT Senior Surveyor & Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 37	b. WITH CURRENT FIRM 5

15. FIRM NAME AND LOCATION *(City and State)*

Longitude Surveyors, 7769 NW 48 Street, Suite 375, Doral, FL 33166

16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i>
<ul style="list-style-type: none"> Associates Degree in Engineering Studies, Palm Beach State College 1984 	<ul style="list-style-type: none"> Professional Surveyor & Mapper #LS4693 State of Florida Florida Surveying & Mapping Society

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
Micro SBE,DBE,CBE, 15.01- Surveying & Mapping, 15.03- Underground Utility Location, 8.1- Control Surveying, 8.2-Design, Right-of-Way & Construction Surveying, and 8.4- Right-of-Way Mapping

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
Red Road Traffic Diverters, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm a. Senior Surveyor & Mapper: LS performed a Topographic Survey that included the following information: Paved areas, edge of pavements, sidewalks, flow lines, back of curbs, walls, trees, palms, hedges, walkways, entrances, signs, pavement markings, signal mast arms, catch basins, manholes, inlets, valves, valve boxes, guardrails, light poles, meters, electric boxes, power poles, overhead lines, fire hydrants, utility pedestals, etc. LS provided a graphical baseline only. The limits were from right of way to right of way along Red Road at the intersections of Algardi Avenue, Cantoria Avenue, and Garcia Avenue located in Coral Gables, FL. Cost: \$4,700.00		
Speed Tables, Coral Gables FL	2016	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm b. Senior Surveyor and Mapper: LS performed Topographic Surveys to include the following information: The survey will include the following: sidewalks, edges of pavement, utilities, manholes, poles, fences, driveways, catch basins, trees and all aboveground improvements. LS will provide the following for all drainage structures; rim elevation, inverts, pipe direction and material, when possible. RW and property lines for the project area and adjacent properties included based on Public information available to the public. Cross sections taken at 10-foot intervals. Control points set outside the limits of the survey. Set in locations to be used by the contractor during future construction. Cost: \$3,900.00		
2020 Salzedo Street, Coral Gables, FL	2015	2015
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm c. Senior Surveyor & Mapper: LS prepared and performed the following surveying services: Construction stakeout, foundation survey, pile layout, established benchmarks, and control lines. Cost: \$10,720.00		
6001 Mall Street, Coral Gables, FL	2014	2016
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm d. Senior Surveyor & Mapper: LS prepared and performed a construction layout to locate pool steel structure and re-layout perimeter wall, and layout wall fence. Additional surveying services included: reflecting crown of road, four property corner elevations along with utility boxes on site for water/FPL. Cost: \$5,800.00		
Parking Lot # 30 - Along the N.E. corner of Almeria Avenue and Galiano Street, Coral Gables, FL	2016	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm e. Senior Surveyor & Mapper: LS performed a Boundary/Topographic Survey to include the following information: Collected all the following aboveground improvements; building facades, sidewalks, curbs, catch basins, signs, islands, entrance, gates, parking meters, alley, etc. Longitude performed cross-sections around the perimeter of the parking garage approximately every 50-feet. The cross sections entailed the following: crown of road, edge of pavement, top of curb, back of sidewalk and all high and low points. LS collected elevation shots within the parking lot consistent with a 50-foot grid. LS collected all existing drainage information such as: rim elevation, pipe size, pipe material, pipe direction and inverts. Cost: \$3,900.00		

Organizational Chart



City of Coral Gables

Color Key
Milian, Swain & Associates, Inc.
Wood Group USA, Inc.
HBC Engineering Company, Inc.
Longitude Surveyors, LLC
GEOSOL, Inc.

Principal in Charge
 Arsenio Milian, PE

Public Involvement
 Deborah Swain

Project Manager
 Gabriel Milian, P.E.

**Quality Assurance /
 Quality Control**
 Julio Menache
 Ricardo Fraxedas, P.E.

Planning and General Civil Engineering Design Services

Arsenio Milian, PE
 Gabriel Milian, PE
 Julio Menache
 Adebayo Coker, P.E.

- Master Planning
- Feasibility Studies
- Basis of Design Reports (B.O.D.R.)
- Infrastructure/Roadway/Traffic Needs Assessment
- Infrastructure Due Diligence Investigations
- Evaluation of Existing Facilities

Water and Sanitary Sewer Systems

Julio Menache Jorge Torres
 Kevin Young, E.I. Osvaldo Perdomo

- Pipeline Route Analysis (Watermains, Sewer Mains, Forcemains)
- Pipeline Design Alternatives Evaluation
 - Materials (D.I.P./P.V.C./H.D.P.E.)
 - Installation Methods (Open Cut/Jack & Bore/Directional Drilling)
- Pump Station Design Alternatives
 - Pump Selection (Dry/Wet Well vs Submersible)
- Sewage Pump Station Site Planning
- Hydraulic Analysis (Watermains/Sewer mains/Pump Stations)
- Construction Drawings/Technical Specifications
- ENVISION & LEED Compliant Designs
- Permitting (City/WASD/Fire/R.E.R./H.R.S.)
- Bid Evaluation/Tabulation/Recommendation

Paving and Drainage Assessments and Design

Gabriel Milian, P.E. Arnaldo Carrillo, P.E.
 Adebayo Coker, P.E. Stephen Hanks, LEED AP

- Paving and Drainage Condition Assessment
- Stormwater Management System Modeling
- Drainage System Alternatives
 - Drainage Outfalls/Pump Stations
 - Exfiltration Trenches
 - Drainage Wells
 - Wet/Dry Retention Systems
- Roadway & Parking Lot Design
- Technical Specifications
- Maintenance & Traffic Plans
- Permitting (City P. Works/FDOT/SFWMD/RER Water Control/FDEP)
- ENVISION & LEED Compliant Designs
- Stormwater Pollution Prevention Plan

Environmental Engineering and Hazard Mitigation Strategies

Michael Landrum, R.E.M.
 Ashok Aitharaju, P.M.P.

- Ecological Assessment & Report
- Jurisdiction Wetlands Delineations
- Wetlands Mitigation Planning & Banking
- Protected Species Management & Surveys
 - Gopher, Tortoise, Eastern Indigo Snake
 - Wood Stork, Fla. Bonneted Bat
- Environmental Permitting
 - SFWMD/RER Wetlands/USACE/US Fish and Wildlife Service/FDEP
- Site Contamination Assessments (E.S.A.)
 - Phase I and Phase II E.S.A.
- Remedial Action Plans
- Implementation of Hazard Mitigation Strategies

Construction Administration

Arsenio Milian, P.E. Pablo Garcia
 Julio Menache

- Review of Shop Drawings
- Construction Inspections & Reports
- Review of Construction RFI
- Witness Infrastructure Testing
 - Gravity Sewer Infiltration Tests
 - Watermain/Forcemain Pressure Tests
 - Sewage Pump Station START-UP
- Substantial Completion Inspections
- NPDES Compliance Inspections
- As Built Plans Review/Approval
- Issuance of the FDEP N.O.T. for NPDES Compliance
- Final Inspection/Certification/Project Close-Out

Engineering Surveys

Eduardo Suarez, P.S.M. John Adler, III, P.S.M.

- Boundary & Topographic Surveys
- Route Surveys
 - Pipeline Extension Projects
 - Roadway Improvement Projects
- Sketch & Legal Descriptions
- Platting (T-Plat/Final Plat/Waiver of Plat) Services
- Underground Utility Locating Services
 - Ground Penetrating Radar (G.P.R.)
 - Soft Digs and Reports
- Preparation of Utility and Paving/Drainage As Builts
- Elevation Certificates

Soil Investigations

Oracio Riccobono, P.E.

- Geotechnical Testing & Reports
 - Standard Penetration Tests (S.P.T.'s)
 - Excavation/Backfill Recommendations
 - Foundation/Pavement Design Recommendations
 - Drainage Testing (SFWMD) Usual Open Hole/Double Ring Infiltrometer Tests
 - Compilation of Hydraulic Conductivity (K-Value)



SECTION III

1. Approach and Methodology
2. Preserving the Historic and Natural Environment
3. Workload
4. Ability to Positively and Innovatively Move a Project
5. Ability to Provide Schedule/Cost/Quality Control
6. Ability to Successfully Deliver Similar Projects
7. Compliance with Public Policies



1. Approach and Methodology

PROJECT UNDERSTANDING, PROPOSED APPROACH AND METHODOLOGY

In order to accomplish the efficient completion of any assignment under this contract, the MSA Team commits to proactively address and resolve all challenges during the Master Planning, Preliminary Engineering, Design and Construction phases of each project. Addressing these challenges efficiently will ensure that the project is delivered on time and within budget. The ability to master these challenges and a commitment to design excellence are what separates the Milian, Swain & Associates (MSA) Team from the competition. The exceptionally-qualified team of professionals assembled for this contract amply satisfies the requirements outlined in the RFQ document, based on our superior track-record with similar projects.

Project Management Plan

Our project management philosophy is to create a partnership with the City of Coral Gables (City) to assist with planning, design, permitting and construction of new civil & environmental engineering assignments that will ultimately be beneficial to and welcomed by the public, technically sound, cost conscious, and completed on schedule and on budget. We will implement this philosophy through teamwork with the City and the right allocation of resources within the MSA Team. In addition, we will pay attention to detail and manage the project assignment by managing the individual component parts. Every Team member will be held accountable to the City needs and expectations for this contract. The MSA Team will build a team approach with the City by maintaining open honest professional communications. We will not hesitate to make tough recommendations and believe that the success of any project hinges on honest cooperation.

Mr. Milian has 16 years of experience in the management and design of civil infrastructure improvements projects in Miami Dade County, including multiple design projects for local municipalities. He will be the primary contact with the selected City Project Manager and will coordinate all the engineering effort of the MSA Team to ensure that the expectations of The City of Coral Gables are met.

The MSA Team Project Manager must be able to quickly understand the project assignment, visualize the final product and have the ability to rapidly identify the specific staffing and equipment requirements to complete any assignment within City's time schedule. **Gabriel Milian, P.E.** will be the MSA Team Project Manager. Mr. Milian has 16 years of experience in the management and design of civil infrastructure improvements projects in Miami Dade County, including multiple design projects for local municipalities. He will be the primary contact with the selected City Project Manager and will have the responsibility of coordinating the engineering effort of the MSA Team to ensure that the expectations of The City of Coral Gables are met during all phases of the project.

The MSA Team understands that a “good start” is essential to ensuring the success of a project. Therefore, upon receiving an executed work order, the MSA Team Project Manager will organize an in-house kickoff meeting. The purpose of this meeting will be to ensure that all of the MSA Team members assigned to the work order understand their project assignments and that the following critical components are completely understood:

- ✓ Project Scope of Services
- ✓ The objectives of the project
- ✓ Project schedule
- ✓ Design budget
- ✓ The construction budget
- ✓ Key deliverables
- ✓ The expectations of the City
- ✓ Roles & responsibilities

Project Approach & Methodology

Based on our experience with similar Public Improvement projects with municipal clients, the MSA Team envisions the following phased approach to each assignment:

Task 1 Preliminary Engineering

Task 1.1 Review and Analysis of Existing Conditions

Upon receipt of specific assignment proposed by the City, the MSA Team Project Manager will distribute to ALL lead team members for review and comments and will arrange for a site field meeting with the City and all consultants to observe discuss and document:

- Define/Refine topographic and boundary survey requirements.
- Existing site constraints (traffic, existing utilities, significant above ground features).
- Inspect existing site conditions:
 - Site grading and drainage patterns.
- Walk-through of potential water, sewer, drainage system route and identify existing above-ground obstructions/constraints to help determine final alignment.

The initial site visit will be critical to validate the original proposed assignment received from the City and provide early identification of any additional issues/components that should be addressed during design for regulatory compliance.

Task 1.2 Boundary & Topographic Survey

An accurate survey is critical as it will provide the base information upon which engineering design plans will be developed. A complete Boundary and Topographic Survey of the project Site must be performed and additional roadway corridors impacted by the new construction. The work will follow the horizontal & vertical control procedures established by the City guidelines. The Survey will include Right of Way and easement(s) verification, location of existing utility castings, existing driveways, trees, medians, curbs, signs and all other

Accurate mapping of existing above and underground utilities is imperative to avoid utility conflicts, schedule overruns and potential change orders during construction.

significant above ground features for the entire area impacted by the new improvements. The Survey will be drafted using the latest AutoCAD format using the City's current drafting standards.

Task 1.3 Utility Data Collection

It is anticipated that proposed improvements required may be located in fully developed (commercial and residential areas) within the City of Coral Gables, congested with existing utilities (Gas, FPL, Bellsouth, Cable TV, etc.). As a result, accurate mapping of existing above & underground utilities is imperative to avoid utility conflicts, schedule overruns and potential change orders during construction. The MSA Team will perform the following during this task:

- Obtain a Design Ticket from One Florida Sunshine, Inc. identifying the utility companies (gas, telephone, etc) providing service within/adjacent to the project limits then forward Request for As-Built Records to each utility company.
- Obtain drainage, signalization, roadway lighting as-built/records from FDOT-6, Miami Dade County, DERM and City of Coral Gables.
- Where proposed water and sewer extensions are required, the MSA Team will coordinate planned/future roadway, drainage, utility, private developments with the City's Planning & Zoning departments, as applicable for the project location. The objective of this task is to ensure that the construction schedule of the proposed work does not impede; or is impeded by, planned/future private and public infrastructure improvements within the project limits.
- Given the potential presence of existing commercial establishments, including gas stations abutting or nearby proposed projects, the MSA Team will research available records at Miami-Dade DERM-Pollution Control Section pertaining to reported/cited contaminated sites adjacent/near the project limits that can potentially impact the geotechnical investigation and soils testing/sampling scope for installation of new pump station, water/sewer main, forcemain trench construction and inevitably construction costs.

Task 1.4 Identify Regulatory/Permitting Requirements

The MSA Team has extensive experience with the permitting requirements for complex civil infrastructure projects in Miami Dade County. The MSA Team will initiate contact with the regulatory agencies during the preliminary engineering phase of the project, attend pre-application meetings to elicit agencies' concerns, permitting constraints and required approvals/permits for the project. Potential regulatory agencies involved are:

The MSA Team has extensive experience with the permitting requirements for similar projects in Miami Dade County.

- **Building department** (City of Coral Gables).
- **FDOT-District 6:** Utility Connection Permit required for all work within state road right of way.
- **Coral Gables Public Works:** Dry Run and Final approvals for all work within City Rights of Way.
- **RER-Water, Wastewater, Water Control and Pollution Control Sections:** Approval of water, sewer, pump stations, roadway/parking lot paving, grading and drainage improvements.

- **RER-Wetlands Section, SFWMD, USACE:** Approval of proposed developments within/adjacent to jurisdictional wetlands through the environmental permitting process.
- In addition, if the construction area will likely impact more than 1 acre, NPDES compliance, including preparation of a Storm Water Pollution Prevention Plan (SWPPP) will need to be implemented during construction.

Task 1.5 Geotechnical Exploration & Evaluation

Once a preliminary extent of proposed improvement(s) has been established, the MSA Team will prepare required scope for geotechnical exploration and soils evaluation to obtain information regarding subsurface soils, ground water levels, soil hydraulic conductivity, provide soil bearing capacity evaluation with recommendations for excavation, backfill material and compaction.

- Prepare a comprehensive report detailing the geotechnical investigations, conclusions and recommendations for trench excavation, pipe bedding, final compaction and environmental considerations.

Task 2 Design & Permitting

Depending on the magnitude and complexity of each project, the MSA Team in collaboration with the City will establish design submittal milestones during the design phase of each project.

Task 2.1 Basis of Design Report (BODR) – 30% Design Submittal

- Under this initial phase, the MSA Team will prepare the BODR for the project to include summary outcome of preliminary engineering tasks conducted under Tasks 1.1 through Task 1.5 above.
- The Comprehensive Boundary and Topographic Surveys (Performed under Task 1.2) - Utility Data Collection and Verification (Performed under Task 1.3) – Geotechnical Testing and Report
- List of jurisdictional regulatory agencies and governmental jurisdictions involved (City/County State/Federal)
- Summary of projected application/permit fees – Preliminary Hydraulic Calculations – Preliminary Design Drawings for Demolition, proposed Site Plan depicting proposed improvements.
- Establish Gravity Sewer/Forcemain Alignment, proposed method(s) of stormwater disposal, LEED requirements as applicable to each project
- Prepare Baseline Project Schedule and Preliminary Construction Estimates
- Conduct QC review of all documents prepared, compile and submit the BODR to the City for review and approval.

Task 2.2 60% Design Submittal

Following is the proposed approach to the preparation of the 60% submittal package to the City:

- Prior to commencing with the preparation of the 60% plans, a meeting with the City's Project Manager and technical staff will be organized to review City comments received on the BODR submittal.
- Proposed civil infrastructure improvement plans and pertinent details will be fully developed (as applicable to each project scope), including Existing Conditions and Demolition Plan(s), proposed civil, site grading, drainage, water and sewer plans, including related construction details and appurtenances.
- Prepare preliminary technical specifications, including front-end documents per standards and format of the City's Specifications Unit.
- Prepare preliminary **Maintenance of Traffic Plans** per City, County and FDOT-6 requirements, as applicable to each project with emphasis on public safety, adequate ingress/egress to impacted merchants/residents and businesses.
- Prepare detailed cost estimates and update project schedule to include Preliminary Construction timeline.
- At this stage of completion, the MSA Team recommends a **Pre-Bid Review** session with the City to review constructability issues, refine the methods and sequence of construction, use of alternate construction methods of specific project elements and coordinate location of construction staging area(s).

Task 2.3 90% Submittal

The 90% design package will reflect:

- The complete set of construction drawings, specifications, calculations and cost estimates in final form with ALL prior issues/comments received from the City resolved and incorporated into the construction documents.
- Together with the 90% Submittal, the MSA Team will prepare the necessary Permit Application packages, determine review permit fees and forward to the City for review and execution as the Permittee for the project.

Task 2.4 Permitting

- Upon receipt of City's 90% comments and executed permit application packages, the MSA Team will formally submit the permit application package(s) to the regulatory agencies having jurisdiction. At all stages of the permitting process, the MSA Team will maintain constant communication with the regulatory agency permit reviewer to ensure that any additional information required is expeditiously provided. The MSA Team will retrieve approved drawings and permits, review permit conditions and other technical comments and incorporate them in the final drawings and specifications.

At all stages of the permitting process, the MSA Team will maintain constant communication with the regulatory agency permit reviewer to ensure that any additional information required is expeditiously provided.

Task 2.5 FINAL Submittal

The Final plans will depict the complete proposed engineering design package ready for the Bidding and Award phase of the project. The submittal package will include:

- Final Construction Drawings & Specifications (hard & electronic AutoCAD format).
- Pertinent Final engineering calculations report.
- Final Engineer's Opinion of Probable Costs, well-coordinated to match the Bid Items listed in the Quotation Section of the Bid documents.
- Approved drawings and Permits received from the regulatory agencies.

Task 3 Bid & Award of Contract

The MSA Team will assist the City during the Bid Phase of the project as requested by the department. The anticipated role of the team is as follows:

Task 3.1 Pre-Bid Meeting

- The MSA Project Manager will develop a Pre-Bid Meeting agenda jointly with City's Project Manager. The MSA Team will attend the Pre-Bid Meeting (to include subsequent site visit/walkthrough) with the City and prospective contractors, present the design approach, respond to bidders' questions, generate and distribute Meeting Minutes.

Task 3.2 Bidding Period Assistance

The MSA Team will assist the City during the bidding period as follows:

- Respond to bidder's RFI's and technical questions during the bidding period.
- Issue addenda and clarification of the construction documents as required.
- Assist the City with the procurement process as follows:
 - Review Bids for submittal compliance.
 - Tabulate and evaluate bids received and make Consultant's recommendation to the City.

Task 4: Construction Administration

Once a qualified contractor is selected for the project, The MSA Team anticipates providing assistance to the City's Construction Managers and Field Inspector(s) as follows:

- Attend pre-construction meeting with the City, and selected contractor. Key discussion elements must include Construction Schedule, Phasing Plan, Utility Conflicts, Contractor's Staging/Yard Areas, Construction Schedule and Maintenance of Traffic Plan.
- The MSA Team will review shop drawings of the proposed improvements, perform construction observations at critical stages of construction or at intervals coordinated with the City's

Key discussion elements must include Construction Schedule, Phasing Plan, Utility Conflicts, Contractor's Staging/Yard Areas, Construction Schedule and Maintenance of Traffic Plan.

construction manager. Write and distribute construction observation report after each site visit.

- The MSA Team will respond to Contractor's RFI's and clarify the construction documents as required during the construction phase.
- Perform a Final Construction Observation to ensure satisfactory completion of all items in the Punch List.
- The MSA Team will attend and witness, where applicable, the civil infrastructure Start-up with the City and DERM-Wastewater representatives.
- Review As-built drawings for compliance, prepare and submit Certification of Construction Completion to the regulatory agencies.
- Recommend execution of a Certificate of Final Acceptance and final payment to the Contractor upon satisfactory completion of all items in the Punch List and receipt of all necessary close-out documentation from the Contractor.

2. Approach to Preserving the Historic and Natural Environment of Coral Gables

Although regulatory requirements are the primary driver for civil design projects, we take a holistic approach in our project planning. Each project that MSA performs has unique characteristics that are identified from the outset of the project.

Our firm is distinctive in our dedication to protection of Coral Gables' natural environment. First, MSA's principals are leaders in environmental protection and education. In 1989, Mr. Milian founded Citizens for a Better South Florida ("Citizens"), an organization whose mission is to provide environmental education, particularly to the underserved community, which inspires active stewardship and the preservation of the South Florida environment (www.abettersouthflorida.org). Mr. Milian continues to serve as its President, and Ms. Swain currently serves as Treasurer. Mr. Milian was compelled to form the organization when he served on the governing board of the South Florida Water Management District, and learned that the mainstream national and local environmental organizations failed to reach the large minority and immigrant population in Miami-Dade County. Mr. Milian also served on Miami-Dade County's Sea Level Rise Task Force, successfully documenting the need for immediate action to protect against sea level rise, and recommending a course of action. Both Mr. Milian and Ms. Swain are long-time local environmental activists.



Our firm is also distinctive in our dedication to the protection of Coral Gables' historic environment. Mrs. Swain is an eighteen-year resident of Coral Gables, and has been involved in the community through her participation on City Advisory Boards continuously since 2001. For the past seven years, she has been on the board of an organization that partners with the Coral Gables Museum to give monthly historical and architectural tours of the City to participants. Ms. Swain was one of the founders of Gables Bike Day, an annual event during which downtown streets are closed for bicycle and pedestrian use. She was also a founder of the Rotary Club of Coral Gables' Annual Chili Cookoff, in which our firm has participated as a contestant every year. Ms. Swain's extensive involvement with the Coral Gables community has deepened her love and respect for the City. Our project manager, Gabriel Milian, has also developed a great respect for the City as a resident

of Coral Gables since 2008. The work we perform will always reflect the appreciation we have for our natural environment, and our knowledge of Coral Gables rich history will be reflected in our approach to all of our projects.



Historical tour, Merrick House

The lush landscape, the beautiful homes and gardens, the quiet residential neighborhoods, stretches of waterway, and the history of the City make it truly a south Florida treasure. Intimate knowledge of the geography, the community, and the many unique characteristics of the City is critical in achieving successful project outcomes. Every task assigned to us will incorporate Coral Gables' historic and natural environment, from planning to implementation. Below are examples of typical projects, and how preservation will be assured.

Planning and General Civil Engineering Design Services: Our master planning will ensure that key elements are carefully preserved while developing a new vision for the City. Our goal is to closely connect new plans with George Merrick's vision.

Sidewalk needs assessments will incorporate the several studies that have already been performed to determine where sidewalks should be installed to ensure pedestrian safety. The 2014 Bicycle and Pedestrian Master Plan identified gaps on busy streets where sidewalks should be considered. An implementation plan is currently



City of Coral Gables Sidewalk Survey Prepared by John Swain

underway to build on that Master Plan which will result in a recommendation to improve the pedestrian network by performing a sidewalk gap analysis, a pedestrian intersection accommodation analysis, and a pedestrian connectivity analysis. Recently the City determined that installation of sidewalks on major arterial roadways will not require resident consensus – a significant departure from past practice. Improvements to existing sidewalks are also underway in the City, with ADA improvements, and connections to both existing and new crosswalks being undertaken. The planning will respect natural impediments, such as trees and other features, while achieving improvements necessary in today's conditions. Special consideration of the City's Tree Succession Plan will be considered in our assessments.



Recent sidewalk ADA improvement

Street needs assessments will consider pavement conditions, as well as upcoming improvements already included in completed and ongoing master planning efforts. Plans for traffic calming will be gathered using already collected data where possible, including the Multimodal Master Plan, resident complaints, and projects under review by the City's Transportation Advisory Board. Any roadway improvement projects will require coordination with the Historic Preservation Board as a number of streets have historic designation.

All of the miscellaneous engineering planning and design services will be performed with the goal of preventing interference with the historic and natural environments.

Water and Sanitary Sewer Systems: Although water and sewer infrastructure, which includes pump stations and pipelines, are designed to meet regulatory requirements, planning will include an evaluation of site conditions. Above ground structures will be designed to meet or exceed Miami-Dade County's sea level rise design criteria. Placement of above-ground and below-ground structures will include consideration of the natural and constructed site conditions to avoid possible interference.



Historical tour, Biltmore Hotel

Paving and Drainage Assessments and Design: As described previously, our assessment, planning, design and implementation of civil projects will incorporate our sensitivity to the City's unique characteristics, with care to protect the natural environment and the historic components.

Environmental Engineering and Hazard Mitigation Strategies: The environmental engineering work that we perform will specifically protect the natural environment. Our vast experience with the permitting requirements, the regulatory agencies, the goals of the City, and our deep respect we have for our natural environment and our knowledge of Coral Gables history will be reflected in all of our work.

3. Current and Future Workload



Milian, Swain & Associates, Inc.

5/30/2019 Key Personnel Work Load Summary
 City of Coral Gables - RFQ 2019-015
 - Civil and Environmental Engineering Services



Key Personnel	Company/Agency	Start Date	End Date	Name/Contract #	Scope	Workload	Availability
Arsenio Milian	Airan	7/26/18	12/1/20	A17-03 Additional Permitting Services	Updated permits for revised site	6%	
	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	6%	
	MDAD	6/30/18	6/1/19	A23-02 Stormwater Sampling & Monitoring for MDAD / #E08-MDAD-03	Stormwater sampling and reporting at Miami International Airport as required by regulatory agencies	5%	
	MDWASD	2/2/18	12/31/19	C03-51 TA-2 SDWWTP Stormwater / #E15-WASD-12 WO 2	Environmental engineering services in support of the SDWWTP stormwater master plan SWPP update and ERP modification	4%	
	MDWASD	5/1/18	12/31/19	C03-52 SDWTT Regional F.O.G. Building / #E15-WASD-12 WO3	Civil engineering for the new fats, oils and grease facility at SDWWTP	3%	
	Catholic Cemeteries of the Archdiocese of Miami	11/1/14	11/1/19	C29-01 Catholic Health Services	Civil Engineering Services for various Cemeteries located in Miami-Dade County	5%	
	MDPROS	10/22/18	6/1/19	M11-31A Tree Island Park Civil & Environmental / #00769_0002	Annual civil and environmental engineering and permitting services, including pre-construction services, for Tree Island Park and Pres	5%	
	Pax Catholic Communications Property 41st Street Development Corp	12/14/19 2/26/10	12/14/19 12/31/19	P18-02 Pax Catholic Communications Property R09-03 Lake Fill Permitting	Environmental engineering services in support of maintenance of exotics on wetlands mitigation site. Environmental engineering services for lake fill operation to submit semi-annual surface water and groundwater monitoring reports.	5% 5%	30%
Julio Menache	Airan	7/26/18	12/1/20	A17-03 Additional Permitting Services	Updated permits for revised site	3%	
	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	2%	
	MDAD	6/30/18	6/1/19	A23-02 Stormwater Sampling & Monitoring for MDAD / #E08-MDAD-03	Stormwater sampling and reporting at Miami International Airport as required by regulatory agencies	3%	
	A+ Mini-Storage	3/28/19	12/1/19	A24-01 A+ Mini-Storage	Civil Engineering services for implementation of the requisite improvements needed to alleviate persistent ponding in specified areas	6%	
	MDWASD	11/1/18	12/1/20	C03-53 SDWWTP Compressor Upgrades / #E15-WASD-12 WO18	Construction phase services for the SDWWTP Compressor building, including reviews & inspections	3%	
	City of Miami Beach	1/8/14	8/1/19	C19-06 Surface Parking Lot 1-A Improvements / #RFQ 01-09/10 Extension	Civil Engineering services for the improvement of an existing 2-acre parking lot	3%	
	City of Hialeah	12/27/18	12/1/20	C27-23 NW 102 Avenue Roadway Improvements / MSA-ENG	Civil Engineering services for improvements to roadways along NW 154 st and NW 2012 ave	6%	
	City of Hialeah	12/28/18	6/1/19	C27-24 Eng Tech Supp / MSA-ENG	Resident engineer services to assist in technical plans review and associated reporting	3%	
	Catholic Cemeteries of the Archdiocese of Miami	11/1/14	11/1/19	C29-01 Catholic Health Services	Civil Engineering Services for various Cemeteries located in Miami-Dade County	6%	
	City of Miami	11/26/18	12/1/20	C42-01 Virginia Key Flex Park / #16-17-003	Urban design and engineering services for a Flex Park at Virginia Key	2%	
	MD Police Dept	7/27/16	12/1/19	D16-01 Police Academy Build / #DB15-ISD-01	Civil engineering design services for new police academy building located at 9601 NW 58 Street, including new classroom/training fac	2%	
	MD PROS	10/13/17	12/1/21	F12-03 Tree Island Park Onsite/Offsite Improvements / #A05-PARK-04	Civil engineering and permitting services for offsite and onsite public roadway improvements to the 113-acre Tree Island Park	3%	
	MDC Public Works	9/8/15	12/1/22	K07-03 SW 216 St-2014 / #E05-PW-03 Additional Svc	Drainage design, reporting, and permitting for construction of SW 216th Street	5%	
	MDWASD	4/1/15	12/1/21	M03-65 - M03-80 MDWASD Pump Stations / #E13-WASD-03	Civil engineering and permitting services for multiple pump stations and forcemains located in Miami-Dade Coutny	7%	
	MDPROS	10/22/18	6/1/19	M11-31A Tree Island Park Civil & Environmental / #00769_0002	Annual civil and environmental engineering and permitting services, including pre-construction services, for Tree Island Park and Pres	3%	
	MDPROS	2/5/19	6/1/19	M11-36 Environmental Site Assessment / #000769C	Oversight of environmental site assessments performed by subconsultant of 9 parcels	2%	
PAJ Investments	2/22/19	12/1/19	P13-02 East of NW 57 Ave	Civil engineering design and permit applications for "Miami City Center Project", including water, sewer, drainage and roadway impro	3%		
Epiphany Parish School	6/28/17	8/1/19	P20-01 Epiphany Parish Gym	Engineering Compliance Report of requisite backflow perfernters	3%		
Westchester Cultural Arts Center	5/16/16	12/1/20	Z01-02 Westchester Cultural Arts Center / #A13-CUA-01	Civil engineering design for new Cultural Arts Center located at Tropical Park	2%	30%	
Gabriel Milian	Airan	7/26/18	12/1/20	A17-03 Additional Permitting Services	Updated permits for revised site	9%	
	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	8%	
	A+ Mini-Storage	3/28/19	12/1/19	A24-01 A+ Mini-Storage	Civil Engineering services for implementation of the requisite improvements needed to alleviate persistent ponding in specified areas	2%	
	MDWASD	2/2/18	12/31/19	C03-51 TA-2 SDWWTP Stormwater / #E15-WASD-12 WO 2	Environmental engineering services in support of the SDWWTP stormwater master plan SWPP update and ERP modification	8%	
	MDWASD	5/1/18	12/31/19	C03-52 SDWTT Regional F.O.G. Building / #E15-WASD-12 WO3	Civil engineering for the new fats, oils and grease facility at SDWWTP	7%	
	City of Miami	11/26/18	12/1/20	C42-01 Virginia Key Flex Park / #16-17-003	Urban design and engineering services for a Flex Park at Virginia Key	6%	
	MD Police Dept	7/27/16	12/1/19	D16-01 Police Academy Build / #DB15-ISD-01	Civil engineering design services for new police academy building located at 9601 NW 58 Street, including new classroom/training fac	2%	
	41st Street Development Corp	2/26/10	12/31/20	R09-03 Lake Fill Permitting	Environmental engineering services for lake fill operation to submit semi-annual surface water and groundwater monitoring reports.	10%	
	36 Avenue, LLC	1/27/12	5/31/20	T10-01 EQCB 7370 NW 36th Avenue	Environmental engineering for EQCB variance request for additional time to connect to MDWASD sewer system.	2%	45%
	Kevin Young	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	3%
MDWASD		11/1/18	12/1/20	C03-53 SDWWTP Compressor Upgrades / #E15-WASD-12 WO18	Construction phase services for the SDWWTP Compressor building, including reviews & inspections	8%	
City of Hialeah		12/28/18	6/1/19	C27-24 Eng Tech Supp / MSA-ENG	Resident engineer services to assist in technical plans review and associated reporting	3%	
MDWASD		4/1/15	12/1/21	M03-65 - M03-80 MDWASD Pump Stations / #E13-WASD-03	Civil engineering and permitting services for multiple pump stations and forcemains located in Miami-Dade Coutny	40%	
Epiphany Parish School		6/28/17	8/1/19	P20-01 Epiphany Parish Gym	Engineering Compliance Report of requisite backflow perfernters	2%	
Our Lady of Lourdes Academy		11/1/17	7/1/19	Z01-03 Cafetorium Renovations	Civil engineering services for the implementation of the requisite drainage improvements for the renovation and expansion of the exist	2%	40%
Deborah Swain	South Sumter Utilities	7/1/19	12/31/2019	S19-04 South Sumter Utilities	Financial application for an original certificate for a new utility in northeast Florida	4%	
	First Coast Utilities	2/1/2019	9/1/2019	F16-01 First Coast Utilities	Financial application for an original certificate for a new utility	10%	86%
Jorge Torres	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	25%	
	City of Miami Beach	1/8/14	8/1/19	C19-06 Surface Parking Lot 1-A Improvements / #RFQ 01-09/10 Extension	Civil Engineering services for the improvement of an existing 2-acre parking lot	7%	
	City of Hialeah	12/27/18	12/1/20	C27-23 NW 102 Avenue Roadway Improvements / MSA-ENG	Civil Engineering services for improvements to roadways along NW 154 st and NW 2012 ave	12%	
	MD PROS	10/13/17	12/1/21	F12-03 Tree Island Park Onsite/Offsite Improvements / #A05-PARK-04	Civil engineering and permitting services for offsite and onsite public roadway improvements to the 113-acre Tree Island Park	7%	
	MDPROS	10/22/18	6/1/23	M11-31A Tree Island Park Civil & Environmental / #00769_0002	Annual civil and environmental engineering and permitting services, including pre-construction services, for Tree Island Park and Pres	6%	
	Our Lady of Lourdes Academy	5/16/16	12/1/20	Z01-02 Westchester Cultural Arts Center / #A13-CUA-01	Civil engineering design for new Cultural Arts Center located at Tropical Park	7%	40%
Pablo Garcia	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	9%	
	MDAD	6/30/18	6/1/19	A23-02 Stormwater Sampling & Monitoring for MDAD / #E08-MDAD-03	Stormwater sampling and reporting at Miami International Airport as required by regulatory agencies	17%	
	City of Miami Beach	1/8/14	8/1/19	C19-06 Surface Parking Lot 1-A Improvements / #RFQ 01-09/10 Extension	Civil Engineering services for the improvement of an existing 2-acre parking lot	17%	
	Catholic Cemeteries of the Archdiocese of Miami	11/1/14	11/1/19	C29-01 Catholic Health Services	Civil Engineering Services for various Cemeteries located in Miami-Dade County	18%	
	MD PROS	10/13/17	12/1/21	F12-03 Tree Island Park Onsite/Offsite Improvements / #A05-PARK-04	Civil engineering and permitting services for offsite and onsite public roadway improvements to the 113-acre Tree Island Park	5%	40%
Osvaldo Perdomo	City of Hialeah	12/28/18	6/1/19	C27-24 Eng Tech Supp / MSA-ENG	Resident engineer services to assist in technical plans review and associated reporting	75%	25%
Michael Landrum	MDPROS	10/22/18	6/1/19	M11-31A Tree Island Park Civil & Environmental / #00769_0002	Annual civil and environmental engineering and permitting services, including pre-construction services, for Tree Island Park and Pres	25%	75%
Arnaldo Carrillo	Airan	7/26/18	12/1/20	A17-03 Additional Permitting Services	Updated permits for revised site	8%	
	Atlantic Sapphire	3/27/15	12/1/20	A18-02 Atlantic Sapphire Salmon Farm	Civil engineering and permitting services for new salmon farm located in South Dade	10%	
	MDWASD	2/2/18	12/31/19	C03-51 TA-2 SDWWTP Stormwater / #E15-WASD-12 WO 2	Environmental engineering services in support of the SDWWTP stormwater master plan SWPP update and ERP modification	8%	
	MDWASD	5/1/18	12/31/19	C03-52 SDWTT Regional F.O.G. Building / #E15-WASD-12 WO3	Civil engineering for the new fats, oils and grease facility at SDWWTP	10%	
	City of Miami	11/26/18	12/1/20	C42-01 Virginia Key Flex Park / #16-17-003	Urban design and engineering services for a Flex Park at Virginia Key	10%	
	MD Police Dept	7/27/16	12/1/19	D16-01 Police Academy Build / #DB15-ISD-01	Civil engineering design services for new police academy building located at 9601 NW 58 Street, including new classroom/training fac	2%	
41st Street Development Corp	2/26/10	12/31/20	R09-03 Lake Fill Permitting	Environmental engineering services for lake fill operation to submit semi-annual surface water and groundwater monitoring reports.	7%	40%	

wood.

PM	ClientName	ProjectName	StartDate	FinishDate	Description of Work	Availability
Aitharaju,Ashok K	Larry Adair dba Quai Investments	Global Marine	7/19/12	11/15/17	Consulting Services 2215 N.W. 14th Street Miami FL US	
Aitharaju,Ashok K	Miami Dade Aviation Department	MIA DOH DW Testing	8/7/12	12/31/19	Wastewater - Collection MIA Airport Miami FL US	
Aitharaju,Ashok K	Miami Dade County Public Schools	Broad Bay Harbor Elem School	5/1/10	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) Ruth K Broad Bay Harbor Elem School Bay Harbor Islands FL US	
Aitharaju,Ashok K	American Tire Recycling Group, Inc.	American Tire Recycling	7/26/10	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) 3551 Nw 116th St Miami FL US	
Aitharaju,Ashok K	Miami Dade County Public Schools	MDCPS John Ferguson SHS	1/8/17	12/31/19	Monitoring 15900 S.W. 56th Street Miami FL US	
Aitharaju,Ashok K	Miami Dade County Public Schools	TT-1 Gateway Env Addtl Svcs	8/1/11	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) Gateway Environmental K-8 Learning Ctr Homestead FL US	
Aitharaju,Ashok K	Miami Dade County	EDP CIS Services	2/14/18	6/30/19	Const - Field Oversight / Resident 701 NW 1st Court Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14-PAMB Monitoring	10/10/17	3/31/19	ESA - Contam (SI/RI/RFI, Phase II) MIA Pan Am Main Base Miami FL US	
Aitharaju,Ashok K	Broward County Aviation Dept	BCAD Stormwater	7/3/18	7/3/19	Stormwtr/Drainage/Erosion/Fld Cntrl Ft. Laud-Hollywood & North Perry Airport Fort Lauderdale FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14-WASD Virginia Key	1/4/18	6/30/19	Wastewater - Collection 3989 Rickenbacker Csway Miami FL US	
Aitharaju,Ashok K	Miami Dade Aviation Department	MIA Bridges 3062 B&C Inspections	3/16/18	3/16/19	CMT/Inspection (non-NDT/non CE&I) MIA Bridge 3062 B & C Miami FL US	
Aitharaju,Ashok K	Robert Bosch LLC	Robert Bosch Ph I Hollywood	4/23/18	4/23/19	ESA - Phase I / Due Diligence 3801 N 29th Avenue Hollywood FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14-MIA Conc A Corridor Link	5/4/18	5/4/19	Monitoring MIA Concourse E Corridor Link Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14 MIA Ash Landfill Evaluation	5/4/18	5/4/19	ESA - Contam (SI/RI/RFI, Phase II) Miami International Airport Miami FL US	
Aitharaju,Ashok K	NP International, LLC	NP-International Gables Station	5/9/18	5/9/19	Const Engr & Inspection (CE&I)/QA Between Grand Avenue & Ponce Coral Gables FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14-FPL Card Sound Rd Monitoring	5/16/18	5/16/19	Monitoring FPL Turkey Point Between Card Sound Rd Miami Dade County FL US	
Aitharaju,Ashok K	Sears Holdings Management Corp.	Kmart #3613 SSES	12/20/17	12/31/19	Waste management 900 NE 163rd Street North Miami Beach FL US	
Aitharaju,Ashok K	City Of Fort Lauderdale	CPL PS#D37 GW Monitoring	1/31/17	12/31/19	Monitoring 305 Lido Drive Fort Lauderdale FL US	
Aitharaju,Ashok K	Miami Dade County Public Schools	MDCPS-TT-1 Gateway Env K-8 Wetland	1/31/17	12/31/19	Stream/Wetland Science, Restoration 955 S.E. 18th Avenue Homestead FL US	
Aitharaju,Ashok K	Miami-Dade Fire Rescue OEM	MDFR NESHAP	2/19/17	6/30/19	Asbestos and lead 9300 NW 41st Street Miami FL US	
Aitharaju,Ashok K	Miami Dade Aviation Department	MIA Environmental Services	7/21/17	3/31/19	ESA - Phase I / Due Diligence Various Location Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM-14 MIA Soil Management	6/23/17	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) Various MDAD Facilities Miami FL US	
Aitharaju,Ashok K	Florida International University	FIU-SPCC Plan Update	5/17/17	6/30/19	Consulting Services 11555 SW 17th Street, CSC 163 Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM-14 Underline Ph II	5/25/17	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) South Miami River to SW 98 St along US1 Miami FL US	
Aitharaju,Ashok K	Miami Dade County Public Works	William Powell Bridge	7/3/18	7/3/19	Asbestos and lead William Powell Bridge Miami FL US	
Aitharaju,Ashok K	Port Of Miami Engineering	PortMiami Terminal Asbestos Survey	4/1/19	3/31/20	Asbestos and lead 899/905 South America Way Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14 Crandon Park Marina	2/19/19	2/19/20	ESA - Phase I / Due Diligence 7200 Crandon Boulevard Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14- SW 137 Ave	2/21/19	2/21/20	ESA - Phase I / Due Diligence SW 137 Ave from US-1 to SW 200th Street Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14-Northside Land	3/8/19	3/7/20	ESA - Phase I / Due Diligence SE Corner of NW 83rd St & 30th Ave Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14 Briar Bay Linear Park	3/14/19	3/13/20	ESA - Phase I / Due Diligence Briar Bay Linear Park Expansion Miami FL US	
Aitharaju,Ashok K	Johnson Controls Inc	Johnson Controls Scrt/Sensormatic	3/20/19	3/19/20	Consulting Services 6600 Congress Avenue Boca Raton FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14 Staffing for File Review	3/27/19	3/26/20	Permits and Approvals 701 N.W. 1st Court Miami FL US	
Aitharaju,Ashok K	MOBIO Architecture, Inc.	Mobio-Conc E Satellite Elevator	4/8/19	4/7/20	ESA - Contam (SI/RI/RFI, Phase II) Concourse E/Miami International Airport Miami FL US	
Aitharaju,Ashok K	Monroe County	Design Services for Facility Repair	7/27/18	7/27/19	Bldg Assess/Design/Mgmt - Exterior 3101 Overseas Hwy. Marathon FL US	
Aitharaju,Ashok K	JSA Group, Inc.	JSA Group-MDCPS Coral Reef	3/21/19	3/20/20	ESA - Phase I / Due Diligence SW 152nd St & SW 130th Place Miami FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14-Killian & Camp Choeoe Ph I	12/3/18	12/3/19	ESA - Phase I / Due Diligence Killian Library Park & Camp Choeoe Park Miami FL US	
Aitharaju,Ashok K	Phillips & Jordan Inc	J&P FPL Turkey Point Backfilling	11/16/18	11/16/19	Water Quality Turkey Point Homestead FL US	
Aitharaju,Ashok K	Akara Partners	MWC Block A ESA	12/5/18	12/5/19	ESA - Phase I / Due Diligence Miami World Center Miami FL US	
Aitharaju,Ashok K	Town of Miami Lakes, Florida	Town of Miami Lakes-Royal Oaks Park	12/11/18	12/11/19	Design - Structural Town of Miami Lakes Miami Lakes FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM14 MIA MIASSA Land Clearing	1/3/19	1/3/20	Const - Field Oversight / Resident SW Corner of NW 67th Ave & 25th St Miami FL US	
Aitharaju,Ashok K	Miami Dade Co Dept of Solid Waste	EDP North Dade Landfill Stormwater	1/8/19	1/8/20	Consulting Services 21500 N.W. 47th Avenue Miami FL US	
Aitharaju,Ashok K	Miami Dade County Public Schools	MDCPS-Ruth K. Broad/Bay Harbor Elem	1/26/17	12/31/19	ESA - Phase I / Due Diligence 1155 93rd Street Bay Harbor Islands FL US	
Aitharaju,Ashok K	Miami-dade County Derm	DERM08 Miller's Pond Park	10/29/13	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) 13350 SW 47th Street Miami FL US	
Aitharaju,Ashok K	Miami Dade Aviation Department	MIA Satellite E Pass Loading Bridge	3/14/16	12/31/19	CMT/Inspection (non-NDT/non CE&I) PO Box 025504, Building 5A Miami FL US	
Aitharaju,Ashok K	State of Florida	FDEP-FEC Hialeah Yd	7/29/16	12/31/19	Remedial Construction 7300 NW 69th Street Miami Springs FL US	
Aitharaju,Ashok K	AlSCO Miami	AlSCO Miami	11/2/16	6/30/19	Consulting Services 1415 NW 21st Terrace Miami FL US	
Aitharaju,Ashok K	Reichhold LLC 2	Reichhold LLC 2	10/23/15	12/31/19	Consulting Services 54 Wamsley Road Jacksonville FL US	
Aitharaju,Ashok K	State of Florida	GC836-Phillips 66	1/27/15	12/31/19	Remedial Construction 6200 N. Federal Highway Boca Raton FL US	
Aitharaju,Ashok K	Miami Dade Aviation Department	MIA Concourse E Structural Repairs	10/23/15	12/31/19	CMT/Inspection (non-NDT/non CE&I) Miami Dade Aviation Department Miami FL US	
Aitharaju,Ashok K	Infinity Construction Services	Infinity Construction Services	7/17/18	7/17/19	Solid Waste Management NW 158th St & 122nd Ave & 124 Ave Miami FL US	
Aitharaju,Ashok K	Flagler Global Logistics	Flagler Methane Peer Review	7/23/18	7/23/19	Remediation 3850 West 108th Street Hialeah FL US	
Aitharaju,Ashok K	Zyscovich Inc	Zyscovich Achitects Ph I	8/20/18	8/20/19	ESA - Phase I / Due Diligence NW Corner of NW 77th Terr & NW 102nd Ave Doral FL US	
Aitharaju,Ashok K	KR Clark St. Tampa 2018, LLC	KR Clark St. Tampa 2018, LLC	10/5/18	6/30/19	ESA - Phase I / Due Diligence SW Corner of Clark & 34th St Tampa FL US	
Aitharaju,Ashok K	Miami Dade County Water & Sewer Dep	WASD Pump Stations Asbestos Survey	11/1/18	11/1/19	Asbestos and lead Six Miami Dade County Pump Station Miami FL US	
Aitharaju,Ashok K	Miami-Dade Public Housing	PHCD LBP Risk Assessment	11/6/18	11/6/19	Asbestos and lead Various Facilities Miami FL US	
Aitharaju,Ashok K	School Board of Broward County	SBBC Stormwater Permitting	1/23/19	1/23/20	Stormwtr/Drainage/Erosion/Fld Cntrl Various Broward County Public Schools Broward County FL US	30%
Corning, Gregory W	Monroe County	Monroe County-Harry Harris Park	9/25/18	9/25/19	Stormwtr/Drainage/Erosion/Fld Cntrl Harry Harris Park Tavernier FL US	
Corning, Gregory W	Village of Islamorada	Islamorada-Canal #145	7/25/16	7/31/19	Stream/Wetland Science, Restoration Cortez and Columbus Dr Lower Matecumbe Islamorada FL US	
Corning, Gregory W	Manatee County Florida	Manatee Cty-Coquina S. Boat Ramp	4/10/18	4/10/19	Design - Structural 2651 Gulf Drive South Bradenton Beach FL US	
Corning, Gregory W	Monroe County	Hurricane Irma EWP - Debris Removal	8/13/18	8/13/19	Stream/Wetland Science, Restoration Different locations around the Keys Marathon FL US	
Corning, Gregory W	Village of Islamorada	Village of Islamorada-Stewardship	8/1/18	8/1/19	Stream/Wetland Science, Restoration Village of Islands Islamorada FL US	
Corning, Gregory W	City Of Naples	City of Naples-EngStudy Spring Lake	9/25/18	9/25/19	Stormwtr/Drainage/Erosion/Fld Cntrl Spring Lake Naples FL US	
Corning, Gregory W	City of Marathon	USDA-NRCS Dredging-City of Marathon	10/24/18	10/24/19	Wastewater - Treatment Canals #257, #268, #269 & #271 Marathon FL US	
Corning, Gregory W	Monroe County	Monroe County-EPA Grant Tsk 8 Cat-A	11/28/18	11/28/19	Stream/Wetland Science, Restoration Florida Keys Monroe County FL US	
Corning, Gregory W	Manatee County Florida	Manatee Cty-Boat Ramp & Dock Insp	1/4/19	1/4/20	Consulting Services Manatee County Parks & Natural Resource Manatee County FL US	
Corning, Gregory W	Village of Islamorada	Islamorada- Canal #132 Air Curtain	1/15/19	1/15/20	ESA - Contam (SI/RI/RFI, Phase II) Canal #132 Islamorada FL US	
Corning, Gregory W	Monroe County	Monroe Cnty Canal #266 Tsk #6 Cat-B	3/18/19	3/17/20	Stream/Wetland Science, Restoration Big Pine Key Canal #266 Monroe County FL US	
Corning, Gregory W	Adventure Environmental, Inc	Monroe County-Hurricane Irma EWP	4/2/19	4/1/20	Stream/Wetland Science, Restoration Big Pine Key, Marathon, and Islamorada Big Pine Key FL US	
Corning, Gregory W	Adventure Environmental, Inc	Monroe Cty-Post Const Surv NRCS EWP	5/8/19	5/7/20	Stream/Wetland Science, Restoration Big Pine Key, Marathon, and Islamorada Big Pine Key FL US	
Corning, Gregory W	Monroe County	MC-Hrcn Irma Debris Mon DEP Funded	5/9/19	5/8/20	Stream/Wetland Science, Restoration Florida Keys Monroe County FL US	
Corning, Gregory W	Monroe County	Monroe Cty-PhIII USDA NRCS EWP Appl	8/14/18	8/14/19	Stream/Wetland Science, Restoration Eastern Side of Big Pine Key Canals Monroe County FL US	
Corning, Gregory W	Manatee County Florida	Manatee Cty-Kingfish Boat Ramp Dock	4/10/18	4/10/19	Design - Structural 752 Manatee Avenue Holmes Beach FL US	
Corning, Gregory W	Monroe County	Monroe Cat-A TkOrd#3 Canal Restorat	3/17/17	7/31/19	Water Quality Monroe County FL US	
Corning, Gregory W	Monroe County	Monroe Cty Category A Tsk 4 PM Srvs	6/22/17	7/31/19	Stream/Wetland Science, Restoration Canal Management Program Monroe County FL US	30%
Fraxedas, Ricardo	Dyplast Products Llc	DYPLAST PRODUCTS CONSULTING	7/1/11	12/31/19	Envir Remediation Studies / Design 12501 Nw 38th Avenue Miami FL US	
Fraxedas, Ricardo	Honeywell	HWGS Clearwater 2019 Remediation	1/17/19	1/17/20	Remediation 13350 US Highway 19 North Clearwater FL US	30%
Hall, Peter J	The CADMUS Group, LLC	CADMUS Climate Ready DC	7/20/18	7/20/19	Air Quality - Outdoor 100 5th Avenue, Suite 100 Waltham MA US	
Hall, Peter J	ARUP	ARUP The Resilience Shift	7/20/18	7/20/19	Communications 13 Fitzroy Street London GB	
Hall, Peter J	Rockefeller Philanthropy Advisors	Rockefeller Resilience Screen	9/21/18	9/21/19	Consulting Services Multiple Multiple NY US	
Hall, Peter J	ARUP	ARUP-Resilience Primers For Industr	10/18/18	10/18/19	Communications 71 Fenchurch Street London GB	30%
Thornbury, Paul H	Robert Bosch Mexico Sistema Automot	Robert Bosch Mexico	3/1/17	12/30/17	Environmental Site Assessments Robert Bosch Mexico MX	
Thornbury, Paul H	State of Florida	FDEP Franks Service Station	12/6/18	12/6/19	ESA - Contam (SI/RI/RFI, Phase II) 1190 9th St. N. Naples FL US	
Thornbury, Paul H	State of Florida	FDEP BC Aviat ion Dept Fuel Farm	12/6/18	12/6/19	ESA - Contam (SI/RI/RFI, Phase II) 210 S.W. 34th Street Fort Lauderdale FL US	
Thornbury, Paul H	State of Florida	FDEP Fmr National Rental Car Site	12/6/18	12/6/19	ESA - Contam (SI/RI/RFI, Phase II) 200 SW 34th Street Fort Lauderdale FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	AIG Chartis - Prime Time	2/14/13	12/31/19	Envir Remediation Studies / Design 1248 Wells Avenue Tavares FL US	
Thornbury, Paul H	State of Florida	FDEP-Day&Nite Car Wash Inc	6/23/16	12/31/19	Envir Remediation Studies / Design 5751 N. Federal Highway Fort Lauderdale FL US	
Thornbury, Paul H	State of Florida	FDEP National Car Rental #063-04	1/31/17	12/31/19	Envir Remediation Studies / Design 1795 Perimeter Road Dania Beach FL US	
Thornbury, Paul H	State of Florida	FDEP Carolina Aircraft Corp	1/31/17	12/31/19	Envir Remediation Studies / Design 3500 S.W. 11th Avenue Fort Lauderdale FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	AIG Charlotte County	11/16/16	12/30/18	Envir Remediation Studies / Design 18500 Murdock Circle Port Charlotte FL US	
Thornbury, Paul H	PC Puerto Rico	PC Puerto Rico - Tutu S.S.	2/7/13	12/31/19	Envir Remediation Studies / Design Tutu Service Station St. Thomas VI US	
Thornbury, Paul H	PC Puerto Rico	PC Puerto Rico - Terminal & Veterans	2/8/13	12/31/19	Envir Remediation Studies / Design Terminal & Veteran's Drive St Thomas VI US	
Thornbury, Paul H	State of Florida	FDEP-McArthur Dairy	5/11/17	7/1/19	ESA - Contam (SI/RI/RFI, Phase II) 6851 NE 2nd Avenue Miami FL US	
Thornbury, Paul H	L & R Group of Companies	L & R Group - Fmr Hertz Orlando	2/13/13	12/31/16	Envir Remediation Studies / Design 5601 Butler National Drive Orlando FL US	
Thornbury, Paul H	State of Florida	FDEP Vero Valero	2/14/18	12/31/19	ESA - Phase I / Due Diligence 9045 20th Street Vero Beach FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	AIG Chartis - Stop & Go	1/6/15	12/31/19	Envir Remediation Studies / Design 5277 South US Highway 441 Lake City FL US	
Thornbury, Paul H	State of Florida	FDEP Tavares Citgo	8/28/17	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) 1248 Wells Avenue Tavares Lake FL US	
Thornbury, Paul H	State of Florida	FDEP-Walkers Aviation	4/10/18	4/10/19	ESA - Phase I / Due Diligence 500 SW 34th Street Fort Lauderdale FL US	
Thornbury, Paul H	Chevron Corporation	Chevron Guatemala	3/16/16	12/31/19	Remediation Various Locations Guatemala GT	
Thornbury, Paul H	Hertz Corporation	Hertz Sarasota Airport	3/19/15	12/31/19	ESA - Contam (SI/RI/RFI, Phase II) 1121 Rental Car Road Sarasota FL US	
Thornbury, Paul H	Risser Oil Corporation	Rally #133	3/11/16	12/31/19	Remediation 1080 Pasadena Avenue S South Pasadena FL US	
Thornbury, Paul H	Lockheed Martin	Lockheed Martin Corp - St. Croix	8/4/14	6/30/19	Bldg Assess/Design/Mgmt - Exterior Former St. Croix Aluminum Facility VI US	
Thornbury, Paul H	Greenberg Traurig, P A	Greenberg Traurig Phase I Audits	10/14/15	7/19/18	ESA - Phase I / Due Diligence Different locations Tallahassee FL US	
Thornbury, Paul H	State of Florida	FDEP Town Star Okeechobee #2447	2/2/18	12/31/19	ESA - Phase I / Due Diligence 1319 NE Park Street Okeechobee County FL US	
Thornbury, Paul H	Johnson & Wales University	Johnson and Wales - North Miami	10/3/17	10/23/18	Envir Remediation Studies / Design 1701 NE 127th Street North Miami FL US	
Thornbury, Paul H	Advance Auto Parts	Advance Auto - Store 9374	10/3/17	10/3/19	Envir Remediation Studies / Design 15090 NW 7th Avenue Miami FL US	
Thornbury, Paul H	State of Florida	FDEP Amoco #447	6/20/16	12/31/19	Envir Remediation Studies / Design 746 Okeechobee Blvd West Palm Beach FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	AIG Chartis - Glen's Super	7/29/13	12/31/19	Envir Remediation Studies / Design 8130 North Century Blvd. Century FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	AIG Chartis - S&P Food Store	8/8/13	12/31/19	Envir Remediation Studies / Design 1405 US Highway 17 South Bartow FL US	
Thornbury, Paul H	State of Florida	FDEP-JW Dawson	11/7/18	11/7/19	Monitoring 4590 N.W. 37th Court Miami FL US	
Thornbury, Paul H	Cemex Construction Materials	Rinker Hydro-Conduit	11/24/13	12/31/19	Envir Remediation Studies / Design 13100 NW 118th Avenue Miami FL US	
Thornbury, Paul H	State of Florida	FDEP-Citgo Sunflower Property	7/14/17	7/14/19	ESA - Contam (SI/RI/RFI, Phase II) 1200 NW 61st Avenue Sunrise FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	AIG - Citgo Baldwin	12/15/14	12/31/19	Envir Remediation Studies / Design 955 US 301 Jacksonville FL US	
Thornbury, Paul H	Advance Auto Parts	Advance Auto SW 8th Street	9/7/18	9/7/19	ESA - Phase I / Due Diligence 2101 SW 8th Street Miami FL US	
Thornbury, Paul H	State of Florida	FDEP Fedex	7/26/18	7/26/19	ESA - Contam (SI/RI/RFI, Phase II) 1401 SW 39th St Fort Lauderdale FL US	
Thornbury, Paul H	State of Florida	FDEP-Stuart	6/28/18	6/28/19	Environmental Health & Safety 301 Stymppann Blvd Stuart FL US	
Thornbury, Paul H	State of Florida	FDEP Aviation Services FLL	10/2/18	10/2/19	ESA - Contam (SI/RI/RFI, Phase II) 3451 SW 2nd Avenue Fort Lauderdale FL US	
Thornbury, Paul H	AIG Global Claims Services Inc.	CHARTIS INSURANCE	1/1/08	12/30/18	Envir Remediation Studies / Design Twin Coastal Mini Stop Ft Lauderdale FL US	
Thornbury, Paul H	Cigarette Racing Team, Llc	Cigarette Racing Team, LLC	4/22/08	12/31/19	ESA - Phase I / Due Diligence 4355 Nw 128th St. Opa Locka FL US	30%
Vanderbeck, Rebecca J	City of St Augustine	Resilience Planning & Implement.	2/16/18	2/16/20	Sustainability 75 King Street St. Augustine FL US	
Vanderbeck, Rebecca J	City of Fernandina Beach	Downtown Waterfront Resiliency Plan	4/9/19	4/8/20	Water Resources and Supply 204 Ash Street Fernandina Beach FL US	
Vanderbeck, Rebecca J	St. Johns County BOCC	HUD EA Hastings Sewer	3/1/19	2/29/20	Envir. Impact Studies/Assessments Church Street Hastings FL US	
Vanderbeck, Rebecca J	Groundwork Jacksonville, Inc.	McCOYS CREEK RESTORATION	6/28/18	6/28/19	Stream/Wet	



5/16/2019

**Key Personnel Work Load Summary
City of Coral Gables - RFQ 2019-015
- Civil and Environmental Engineering Services**



Key Personnel	Company/Agency	Dates of Services	Name/Contract #	Scope	Workload (%)			Availability
					Recent	Current	Projected	
Adebayo Coker, PE	HDR/FDOT D-6	9/1/18 - ongoing	US 25/Okeechobee Rd./436565-1-52-01 et al	Owner's Rep - Corridor MOT QC reviews	20	20	20	
	FDOT D-4	10/23/18 - ongoing	Final Design Services for SR -7/US-441 Transit Corridor Improvements/CA 133	Design Services	20	20	10	
	FDOT D-6	12/2/17 - ongoing	Plans Review Support/C 9J67	Plans Review	10	10	10	
					50	50	40	
Jose Lopez, PE	FDOT D-6	8/26/17 - ongoing	District Wide Professional Engineer Design Consultant/C-9T14	TWO #12 - Signal Design NW 54 St. at NW 14 Ave.	5	5	5	
	FDOT D-6	8/26/17 - ongoing		TWO #11 - Signal Design NW 12 Ave. at NW 19 St.	5	5	5	
	FDOT D-6	8/26/17 - ongoing		TWO #13 - NW 7th Ave. Emergency Traffic Signal	5	5	5	
	FDOT D-6	8/26/17 - ongoing		TWO #6 - Roadway Design NW 8 St. at SW 157 Ave.	5	5	5	
	FDOT D-6	8/26/17 - ongoing		TWO #10 - Signal Design NW 36 St. at NW 20 Ave.	5	5	5	
	FDOT D-4	10/23/18 - ongoing	Final Design Services for SR-7/US-441 Transit Corridor Improvements/CA 133	Design Services	30	20	10	
					55	45	35	
Greg Prytyka, PE	HDR/FDOT D-6	9/1/18 - ongoing	US 25/Okeechobee Rd./436565-1-52-01 et al	Owner's Rep - Corridor MOT/SPM QC reviews	30	20	20	
	TranSystems	4/11/19 - 7/19	Hialeah Freight Access Study	Corridor Improvement Study	10	5	0	
	EAC/MDX	3/6/19 - 6/30/19	TA-12 SR 112 Auxiliary Lanes/TWO #5	Data Analysis	10	5	0	
	EAC/MDX	4/17/19 - ongoing	TA-01 BOS Violation Study/TWO #6	Crash Data Analysis	10	5	5	
					60	35	25	
Gerard Osborne, PE	PARSONS/MDC	3/1/19 - ongoing	Bus Expressway Rapid Transit (BERT)/WO No.: WO-B-019.R1	Data Collection Plan and Data Review	25	25	10	
	PARSONS/MDC	8/15/18 - 8/28/19	Beach Corridor Rapid Transit PD&E Phase III/WO No.: WO-B-011.R0	PD&E - Prepare Report	30	20	0	
	EAC/MDX	4/17/19 - ongoing	TA-01 SR 836 BOS Violation Study/TWO #6	Field Review/Data Collection Plan & Review	10	10	10	
					65	55	20	

4. Minimizing Impact on Community

We have put together a team that is able to bring broad experience in project delivery enabling us to bring new concepts to our projects. We will work with the community to incorporate innovation with community input to ensure project success.

MSA has positively demonstrated the success of each project we have completed by proactively participating in the early planning of each assignment with emphasis on civil infrastructure and environmental engineering requirements. We work together with architects and site planners during development of the proposed site, which ensures that the site geometry, vehicular access, stormwater management systems (i.e lakes, dry retention) have been considered in the site plan. By doing so, the initial conceptual vision for the project can move forward to final design, permitting and construction. An example of a real project is the Our Lady of Guadalupe Church and Multi-Purpose Building in Doral, Florida. The development had stalled for over eight years due to the myriad of environmental issues given the project's location within the Everglades North Trail Basin. MSA successfully worked with site planners and environmental regulators to arrive at a final development site plan that was cost efficient, permittable and in concert with community expectations.

The Coral Gables community includes residents, visitors, and City and business employees. Community members have an expectation that the City will actively protect them from activities that may interfere of their quality of life. There is no doubt that infrastructure improvements will create disruption. Our approach to planning, design, and implementation of improvements will strive to minimize physical disruption to community. This will be achieved by seeking community input into the planning process, and incorporating that input into project whenever feasible. We understand that the public has entrusted the City leaders and staff with this philosophy, and will commit to holding to this standard.



Photo of Biltmore Way, where improvements are being conceptualized



Photo taken on Aragon Ave and LeJeune shows need for sensitivity for pedestrian safety during planning

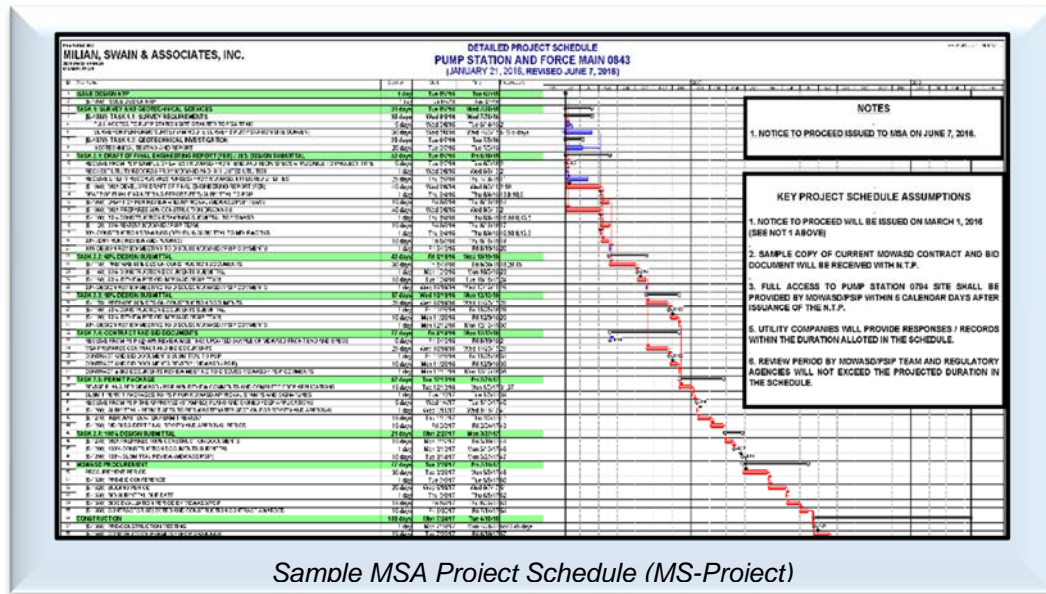
The City has engaged in community outreach events to ensure that projects in the planning phase include consideration of the project's impact on the community, and incorporates public input where appropriate. MSA will continue this practice when fitting, and has extensive experience facilitating stakeholder events, including members of the public, as well as consulting professionals, city staff, advisory boards and regulatory agencies.

5. Ability to Provide Schedule Control, Cost Control, and Quality Control

The MSA Team Project Manager will ensure the success of any assigned project by implementing a strong quality control, schedule control, and cost control plan that focuses on the following:

- **Open Communication:** The MSA Project Manager will maintain open lines of communication with each of the subconsultant partners in the MSA Team to coordinate work assignment tasks. In addition, clear communication with the City Project Managers will be maintained with respect to progress and deliverables.
- **Strong Quality Control:** The MSA Team commits to delivering plans and specifications that meet the highest standards of our profession. We will implement a comprehensive QA/QC plan whereby all documents prepared will undergo rigorous technical review prior to formal submittal to the City and the regulatory agencies. Our Project Manager (Gabriel Milian, P.E.) will coordinate with the assigned QA/QC Manager (Julio Menache) to take the following steps to ensure that our deliverables are clearly consistent with the Scope of Work, Deliverable required by the City, regulatory compliant, technical sound and cost-effective.
- **Prepare a QA/QC Implementation Plan at the onset of each project** to establish guidelines to be followed by the technical team during the Planning, Design, Permitting and Construction of each project. **Establish and enforce quality control procedure(s)** from all disciplines at each submittal interval involved to ensure that the final plans and specifications that will result in the least possible amount of change orders.
- Meet with the project team at established/periodic intervals and **enforce accountability (budget and schedule control)**.
- **Conduct in-house quality control reviews** prior to the completion of milestones stipulated by the City. Focus on permitability, constructability, Sustainable design, environmental compliance with the City and jurisdictional regulatory design standards and ensure consistency between the plans and the specifications.
- **Ensure that the quality control comments are addressed** and resolutions incorporated in the plans and specifications.
- **Coordinate with the City's Project Manager** to ensure that their review comments are incorporated in the plans and specifications at all submittal intervals and established milestones.
- Maintain close communication with the City to **make sure our work always complies with industry safety standards and City's contract administration procedures**.
- **The MSA Team is committed to ensure environmental compliance** during implementation of any project through environmental compliance monitoring (i.e. NPDES inspections).

Open lines of communication will be maintained through the use of e-mail, telephone conferences, faxes and distribution of meeting minutes.



- Schedule Control** is of utmost importance of keeping a timely schedule for all Capital Improvement Projects assigned by the City of Coral Gables. Our staff has extensive knowledge of the steps involved during the design and permitting process of Water Distribution, Sanitary Sewer, Paving Grading, Drainage and Environmental projects in South Florida and are aware of the possible challenges and delays that need to be addressed/avoided while completing projects for the City of Coral Gables. It is very important to stay on top of the schedule, fine tune the timeline as the project progresses, efficiently address and resolve issues that may arise and to maintain project on schedule. We will maintain open communication with the City of Coral Gables Project Management team and regulatory agencies to update the progress on a regular basis. For every assignment, MSA will prepare and submit to the City of Coral Gables for their approval a baseline schedule using *MS-Project* to show all the moving parts throughout the Design, Permitting, Bidding and Construction process. The schedule will show both linear and concurrent aspects of the project and will include all tasks necessary from Notice to Proceed through Construction. The goal of scheduling is to proactively identify any issues that may change the timeline and to work with the City of Coral Gables to find solutions in order to minimize and avoid any unforeseen problems.
- Cost Control** is crucial to the success of each project assigned to the MSA Team. Upon receipt of the Notice to Proceed and the Basis of Design Report from the City, the MSA Project Manager will conduct a detailed review of the City's preliminary construction budget for each assignment against MSA's in-house cost database of construction unit costs for similar projects considering specific project requirements and project cost escalation based on established cost estimating standards for civil infrastructure in South Florida. MSA will review our initial cost analysis with the City Project Manager, identify adequacy of the initial City budget and (if needed) provide innovative engineering solutions to lower construction costs while providing sound and safe engineering designs which meet regulatory agencies' requirements. The construction budget will be monitored throughout the design process, updated and submitted to the City with each design submittal package. MSA's vast experience with civil infrastructure projects in South Florida will ensure that the City receives accurate and realistic Opinion of Probable Costs to avoid cost overruns and need for supplemental funding.

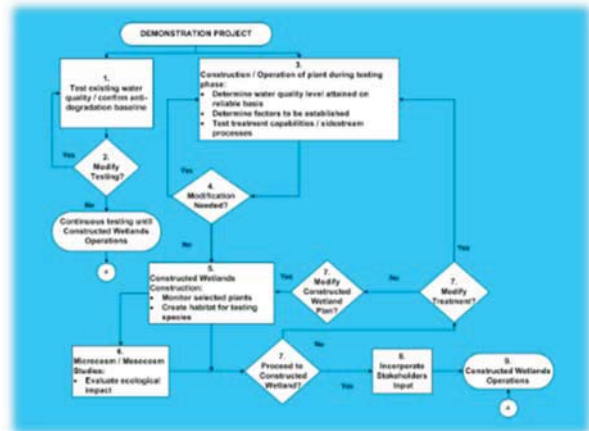
6. Ability to Deliver Similar Projects

MSA has a track record of successful completion of projects requiring significant community and business involvement. Below are some sample projects that we have performed with a description of the activities in which we engaged.

MSA participated in the water master plan for Miami-Dade Water and Sewer Department in 2006 - 2007, resulting in the successful award of a 20-year consumptive use permit for withdrawal from the Biscayne Aquifer. MSA's primary role included hydraulic modeling, alternatives assessments, financial and economic analyses, and coordination of stakeholder involvement. Throughout the project, Ms. Swain coordinated and conducted meetings with regulatory agencies and major stakeholders. One large stakeholder meeting was coordinated and facilitated by MSA which included regulatory agencies, environmental organizations, consultants, county agency personnel, members of the public, business representatives and major stakeholders. As a result, certain aspects of the master plan were either prioritized, delayed or eliminated.

In 2007 and again in 2017, MSA participated in the Miami-Dade County Reuse Feasibility Study. MSA determined the regulatory requirements and analyzed their impact on reuse opportunities, conducted the economic and financial analysis, and coordinated the stakeholder involvement. Major stakeholders were identified, and meetings were conducted with each during the project. These included regulatory agencies; prospective users of reuse including members of the agricultural community, county agencies, municipalities, businesses and universities. Two large stakeholder meetings were conducted near the completion of the project which included all previously mentioned stakeholders, as well as environmental organizations, consultants and businesses. The result was a reuse plan for the county was accepted by FDEP, and is currently in the implementation planning phase.

In 2007, Ms. Swain directed the stakeholder involvement for the Miami-Dade County analysis of providing reclaimed water to the Coastal Wetland Rehydration Project. This project was conducted as a result of the Water Master Plan and Reuse Feasibility projects conducted in 2006-2007. Rehydration of the coastal wetlands was identified as a potential use of reclaimed water by stakeholders, including regulatory agencies and Biscayne National Park. Several large-scale meetings were conducted, and as a result it was determined that the MDWASD would implement a demonstration project to determine the successful treatment methodology to meet the environmental parameters determined by the stakeholders, and then to test the highly treated reclaimed water on biological microcosms.



Project plant to include stakeholder input

Julio Menache participated in the stakeholder meetings conducted during the planning and design of the South Dade Busway, while he served as civil project engineer for another firm. This involved numerous meetings with community groups and businesses along the prospective route.

In addition to these project-specific large-scale stakeholder events, Ms. Swain has conducted strategic planning events and numerous large meetings. She also developed, planned and conducted employee driving efficiency improvement meetings involving over 1500 county employees from several Miami-Dade County departments, including Water and Sewer, Police, General Services Administration, Information Technologies. A similar project was conducted for the City of Ft. Lauderdale Water and Sewer Department.



Photo taken at one of over 50 employee directed efficiency improvement workshops

MSA understands the importance of obtaining input from the Coral Gables community, as described in Section 4, and looks forward to working closely with residents, businesses, City staff, consultants, and other stakeholders when appropriate to the project.

7. Compliance with Public Policies

MSA complies with all Federal, State and Local laws, in particular as it pertains to equal opportunity and nondiscrimination laws. Furthermore, MSA's workforce is a diverse representation of our local community, comprised of 68% Hispanic, 14% Black, and 32% women. Of the firm's three owners, two are Hispanic and one is a woman.

Not only is MSA a small/minority owned firm, two of our four subconsultants are small/minority businesses. Two large firms were brought to the team to add depth of knowledge and staff if needed for a particular assignment.

MSA adopted an official Affirmative Action Plan in 1999, in compliance with Miami-Dade County requirements, and assigned Ms. Swain to serve as the company's Affirmative Action Plan Officer. The plan established procedures for recruitment/advertising, hiring, promotion and training employees, and directs that such activities will be performed without regard to race, color, religion, sex or national origin. The plan also established the company policy to seek small, minority, and women-owned businesses for goods and services used in the normal course of company activity.



SECTION IV

1. Standard Form 330, Part I - Section F
2. Work Performed for the City
3. Discontinued Use List
4. Incidents Within Last Five Years



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION (City and State) 16-Inch Watermain Replacement Along West 63rd Street City of Miami Beach, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If applicable) 2015

23. PROJECT OWNER'S INFORMATION

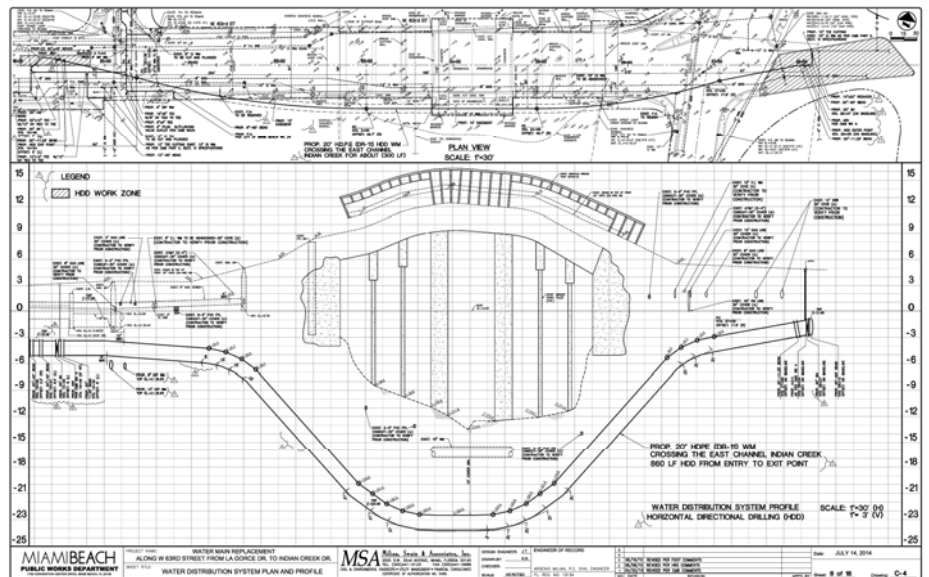
a. PROJECT OWNER City of Miami Beach	b. POINT OF CONTACT NAME Eric Carpenter, P.E.	c. POINT OF CONTACT TELEPHONE NUMBER EricCarpenter@miamibeachfl.gov - 305-673-7000
---	--	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) provided professional engineering services to the City of Miami Beach (City) to design the replacement of an existing 16-inch watermain (+/- 1,800 LF) located along West 63rd Street (SR 907) which included the installation of a 20-inch diameter high density polyethylene (HDPE) water main via Horizontal directional drill (HDD) for approximately 1,000 LF, that was installed with a minimum of ten feet below the sediment grade of Indian Creek, within the Biscayne Bay Aquatic Preserve. These improvements included surveying, environmental (biological) assessment, design watermain extension, permitting, bidding, and construction phase services. The MSA Team that participated in this project was comprised of the following firms: **Milian, Swain & Associates, Inc. – Civil & Environmental Engineering, Longitude Surveyors - Surveying & Mapping (“Longitude”)** and **GEOSOL, Inc. Geotechnical Engineering (“GEOSOL”)**

Professional Services provided by the MSA Team

- **Surveying & Mapping:** Route, Topographic and bathymetric Survey along the +/-1,900 LF project corridor.
- **Geotechnical Testing:** Standard Penetration tests (SPT's) and Geotechnical Report.
- **Environmental (Biological) Assessments:** This task included an in-water biological assessment to review the corridor for sea grass or coral resources that may be present within the work areas; including description of methods to be used in order to protect and preserve these resources during construction.
- **Basis of Design Report** to include: Copies of all utility data/records collected - Analysis of the proposed preliminary horizontal/vertical alignment of proposed 12- inch watermain including connection to existing watermains, proposed location of launch/receiving pits for subaqueous crossings, proposed watermain pipe material selection and recommendations - Identification of Property Requirements (Rights of Way/Easements) for watermain construction. - Preliminary Project Phasing Plan - Permit/Approvals Requirements and anticipated Permit/Approval Fees - Preliminary Opinion of Probable Construction Costs - Updated Project Schedule.
- **Periodic Design Coordination** and review sessions with the City to discuss Critical Activities/Milestones, Construction Cost and Schedule Update.
- **Final Design Drawings** and Technical Specifications, Opinion of Probable Costs using City of Miami Beach and FDOT-6 Standards, considering and based on survey, existing utilities and traffic constraints, MSA prepared Demolition, Water Main extension, Traffic Signage and Pavement Markings plans along the West 63rd Street (SR 907) Right of Way (From Collins Avenue to LaGorce Drive) including Plan & Profile of the proposed horizontal/vertical alignment of the new 20 inch watermain including connection to existing mains, proposed location of launch/receiving pits for subaqueous crossings, proposed watermain pipe material selection and recommendations considering City, FDEP and FDOT standards.



- **Permitting:** Prepared, submitted pertinent permit application packages and obtained approvals/permits of the proposed Water Transmission Main Improvements from the following agencies:
 - **City of Miami Beach Public Works Department and Fire Department**
 - **Miami-Dade RER – Coastal Section (Class I Permit)**
 - **Miami Dade RER- Water Supply Section – Watermain Extension Permit**
 - **Florida Department of Transportation – District 6 (Right of Way Permit & Utility Connection Permits)**
 - **Florida Department of Environmental Protection (Environmental Resources Permit)**
 - **United States Army Corps of Engineers (Nationwide Permit)**
 - **Miami Dade County Health Department (Watermain Extension Permit)**

- **Construction:** MSA provided assistance during the construction phase of the project as follows:
 - Participation in Pre-Construction Meeting with the City and selected Contractor.
 - Review of shop drawing submittals for general compliance with the approved construction documents.
 - Attended construction site meetings with the City and contractor to discuss construction progress and address and resolve deviations and deficiencies.
 - Prepare responses to RFI's/CDC's received from the Contractor during construction.
 - Review Request(s) for Change Order (RCO's) issued by the Contractor, and submitted a written opinion to the City validating or disclaiming the requested change order(s) considering the approved construction documents.
 - Reviewed and evaluated Contractor's (monthly) Pay Requests and submitted a written opinion to the City considering actual construction progress.
 - Conducted construction observations of the proposed improvements. Wrote and distributed construction observation reports after each site visit, including general status and progress of the work.
 - Performed a Substantial Completion Observation of the proposed improvements, to ensure that the work completed met the minimum requirements for substantial completion.
 - Performed a Final Construction Observation of the proposed improvements to ensure satisfactory completion of all items in the Punch List.
 - Reviewed As-built drawings prepared, signed and sealed and submitted by the Contractor's licensed registered land surveyor.
 - Prepared and submitted Completion of Construction certification(s) to applicable regulatory agencies having jurisdiction over the project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
a	Milian, Swain & Associates, Inc.	Miami, Florida	Civil & Environmental Engineering
b	Longitude Surveyors	Miami, Florida	Surveying & Mapping
c	GEOSOL, INC.	Miami, Florida	Geotechnical Engineering
.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">2</p>
21. TITLE AND LOCATION (City and State) <i>Our Lady of Guadalupe & San Diego Parish Development</i> <i>City of Doral, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2015

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER <i>Archdioceses of Miami</i>	b. POINT OF CONTACT NAME <i>David Prada, AIA</i>	c. POINT OF CONTACT TELEPHONE NUMBER <i>dprada@theadom.org - (305) 762-1033</i>
--	---	--

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) provided Civil & Environmental Engineering Design, Permitting and Construction Services for the development of the **Our Lady of Guadalupe & San Diego Parish**, a 7-acre church and multi-purpose development at the intersection of NW 25th Street and NW 117th Avenue in the City of Doral Florida. MSA provided extensive coordination with multiple disciplines and parties involved during the Design, Permitting and Construction phases of the project (Owner representatives, Utility companies, Surveyor/Platting Consultant, Architects, Site Planner, Structural/Geotechnical/Mechanical, Plumbing/ Electrical Engineers, Landscape Architects) plus Municipal, County, State and Federal Regulatory Agencies having jurisdiction. Following were MSA's scope of services provided for this project:



- **Design of the Onsite/Offsite Paving, Grading, Drainage, Traffic Signage and Pavement Markings** for the new onsite driveways and driveway connections to adjacent public roads, paved parking areas, sidewalks and sodded areas coordinated with the project team including:
 - **Stormwater Management calculations** considering a 10 year-24 hour, 25 year-72 hour and 100 year-72 hour design storm events to establish Minimum Finish Floor, Site and perimeter elevations per City of Doral, RER-Water Control and SFWMD requirements. Second Order (5 Year – 24 hour) Drainage Computations for the onsite drainage systems using exfiltration trenches and onsite dry retention areas to attenuate water quality and quantity requirements.
 - **Vehicular access driveways** to NW 117th Avenue and NW 25th Street including new **12' Diameter culvert crossing** the NW 117th Avenue Canal and **twin 7' diameter culverts crossing** the NW 25th Street Canal,
 - **Two Sluice Control Gates** at the NW 25th Street Canal Culvert Crossing per RER-Water Control standards.
 - **Bike path along the perimeter of the property** consistent with the City of Doral Greenways network requirements.
 - **Storm Water Pollution Prevention Plan (SWPPP)** per FDEP and RER-Water Control criteria.
 - **Design of Water Distribution and Site Fire Protection Systems** to serve the new development coordinated with the project team and consistent with regulatory requirements to include:
 - **12-inch watermain extension (+/- 1,100 LF)** and related appurtenances (Fire Hydrants, Fireline, PIV, FDC, Domestic Water Service, water meter and backflow preventers connecting to existing offsite public 16-inch watermain on NW 25th Street.



- **Design of Sewage Collection, Forcemain and Sewage Lift Station System** coordinated with the project team and consistent with all regulatory requirements to include:
 - **8-inch gravity sewermain extension (+/-700 LF)** and related appurtenances (manholes, sewer services laterals) discharging to onsite sewage lift station.
 - **Design of Sewage Lift Station & Forcemain Systems** designed with ample capacity to receive and pump sewage flows from the new church and multi-purpose building including 6-inch discharge forcemain (+/- 500 LF) connecting to existing offsite public 20-inch forcemain on NW 25th Street.

- **Permitting:** The civil infrastructure review and approval process for this project was extremely complex and challenging due to the project location which involved a myriad of local, county, state and federal agencies. MSA successfully submitted the requisite application packages and obtained all required approvals and permits from the following regulatory agencies:

- **South Florida Water Management District (Environmental Resources Permit) - United States Army Corps of Engineers (Dredge & Fill Permit) - Miami Dade RER-Wetlands Section (Class IV –Wetlands Permit) - Miami Dade RER-Water Control Section (Class III Permit for Canal Culvert Crossings) - Miami Dade Public Works Canal Maintenance Division (Culverts and Sluice Gates Permit) - City of Doral Public Works & Building Departments (Master Permit) - Miami Dade Water & Sewer Department (Service Agreement/ Water and Sewer Systems Permit) - Miami Dade Fire Department (Site and Building Fire Protection Systems) – Miami Dade RER-Water Supply Section (FDEP Watermain Extension Permit) – Miami Dade Health Department (Water Distribution System Permit) - RER-Wastewater Section (FDEP Gravity Sewer, Forcemain Extensions and Lift Station Permit) – Florida Department of Environmental Protection (N.O.I for NPDES Compliance)**



- **Construction Phase Services:** MSA provided assistance during the construction of the civil infrastructure systems of the project as follows:
 - Participation in Pre-Construction Meeting with the Owner and selected Contractors.
 - Review of shop drawing submittals for general compliance with the approved construction documents.
 - Attended construction site meetings with the Owner and site contractor to discuss construction progress and address and resolve deviations and deficiencies.
 - Prepare responses to RFI's received from the Contractor during construction.
 - Reviewed and evaluated Contractor's (monthly) Pay Requests and submitted a written opinion to the Owner considering actual construction progress.
 - Conducted construction observations of the proposed improvements. Wrote and distributed construction observation reports after each site visit, including general status and progress of the work.

- Conducted weekly NPDES Compliance Inspections and prepared requisite reports per FDEP requirements.
- Performed a Substantial Completion Observation of the proposed improvements, to ensure that the work completed met the minimum requirements for substantial completion.
- Witness critical civil infrastructure testing (Watermain and forcemain pressure tests, Gravity Sewer System infiltration tests, exfiltration trench, pavement construction, Sewage lift Station Start-up Test)
- Reviewed As-built drawings prepared, signed and sealed and submitted by the Contractor's licensed registered land surveyor.
- Prepared and submitted Completion of Construction certification(s) to applicable regulatory agencies having jurisdiction over the project.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) FIRM NAME Milian, Swain & Associates, Inc.	(2) FIRM LOCATION (City and State) Miami, Florida	(3) Role Civil Engineering Services
b	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
c	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER <p style="text-align: center;">3</p>
21. TITLE AND LOCATION (City and State) <i>Miami-Dade Water and Sewer Pump Station No. 177</i> <i>Miami-Dade County, FL.</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> 2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER <i>Miami-Dade Water and Sewer Department</i>	b. POINT OF CONTACT NAME <i>Reynaldo Abreu</i>	c. POINT OF CONTACT TELEPHONE NUMBER <i>rjabr01@miamidade.gov - (786) 552-8161</i>
--	---	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Miami-Dade Water and Sewer Department (MDWASD) required professional engineering services to upgrade existing Pump Station 177. Based on the preliminary Engineering Report provided by MDWASD, the existing station is currently operating above the established N.A.P.O.T. threshold and required the replacement of the existing Dry/Wetwell pump station with a new (Triplex) submersible pump station and related appurtenances, including new 200KV emergency generator. Once proposed improvements are implemented, the station will be capable of discharging peak flows from its service area within the NAPOT (10-hour) criteria.



Project site before construction, June 2010



Project site during construction, December 2011

Milian, Swain & Associates, Inc. (MSA) was retained to provide design, regulatory permitting assistance and limited construction support services for this project. MSA is responsible for coordinating and leading a team that will be performing Civil, Electrical, Structural and Geotechnical engineering as well as survey and mapping for the improvements. MSA scope of services included:

- Preparation of full area survey, following MDWASD Survey Procedure for Horizontal and Vertical Control.
- Preparation of design documents for 30%, 70%, 90% and 100% design submittal, including Opinion of Probable Costs.
- Preparation of Front End/Technical Specifications per MDWASD Standards, Contract and Bid Documents.
- Preparation and submission of permit packages to the appropriate regulatory agencies, including the identification of the permit fees required (City of South Miami, MDWASD, RER-Wastewater).
- Provide limited construction support services for the project to include shop drawing reviews, construction observations, pump station start-up and certification.



Project site after construction, February 2014

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
a .	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering Services
b .	Geosol, Inc.	Miami, Florida	Geotechnical
c .	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
d .	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
e .	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
f .	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 4
---	---

21. TITLE AND LOCATION <i>(City and State)</i> Tree Island Park – Civil, Environmental, and Permitting Services – Miami, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If applicable)</i> Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Miami-Dade County Parks and Recreation Department	b. POINT OF CONTACT NAME Mark Heinicke	c. POINT OF CONTACT TELEPHONE NUMBER MHEINIC@miamidade.gov - (305) 755-7811
--	--	---

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Milian, Swain and Associates, Inc. (MSA) is providing civil and environmental engineering services to the Miami-Dade County Parks and Recreation Department (PARD). This Department requires assistance to prepare and process the environmental permits required to develop the Tree Island Park located south of SW 10th Street between SW 149th Avenue and SW 147th Avenue. MSA scope of services includes:

Data Collection and Coordination – MSA coordinated and attended kick-off meetings as well as prepared a survey and geotechnical testing scope that was submitted to MDPROS. As part of the task, MSA and its subconsultant conducted a site visit to become familiar with the project site and surrounding areas. In addition, MSA identified the utility companies providing service in the project area and requested as-built plans as well as the points of connection for potable water and sanitary sewer services from the Miami-Dade Water and Sewer Department.



MSA assisted with the environmental permit process for the Tree Island Park project

Schematic Site Plan Development - MSA assisted the landscape architect in developing a Schematic Site Plan by providing preliminary engineering assistance with the overall strategy for stormwater management, leading to a preliminary sizing of all retention facilities (lakes or dry retention areas). As part of this task MSA engaged in a preliminary review of the Landscape Architect's preliminary site plan and identified suggested modifications as they pertain to the Civil Engineering Discipline. Once they addressed the suggested modifications and provided MSA with an electronic copy of the revised site plan, MSA identified the pervious and impervious areas of the plan and prepared water management routing calculations to determine the available storage and peak stages for the design storm events. MSA coordinated all additional site plan modifications required to create additional storage to ensure that the site can service the design storm events. We ensured that the preliminary water management design of the site was in compliance with DERM's Bird Drive Basin criteria. MSA considered impacts to existing wetlands and tree islands in the coordination process with the Landscape Architect.

Wetland Delineation and Environmental Permitting - The MSA Team delineated the project wetlands using the currently accepted methodologies accepted by the US Army Corp of Engineers (COE), the South Florida Water Management District (SFWMD) and the Miami-Dade County Department of Environmental Resources Management (DERM). Tree Island delineations were based on DERM-EEL criteria that were to be submitted to each regulatory agency for consent prior to field work. The Team's biologist utilized colored flagging to delineate the jurisdictional wetland boundary. The wetland delineations were marked on an available County aerial or topographic survey. Other field information including the completion of COE Wetland Determination Data Sheets and a Uniform Mitigation Assessment Method (UMAM) was also performed for the wet prairie wetlands and Tree Islands. Additionally Team biologist located three seasonal high water (SHW) elevations within the tree islands and wet prairie areas for hydrologic restoration purposes. A preliminary wildlife survey was conducted during the wetland delineation to determine presence of any listed plant or animal species. The Team biologist met on-site one time with the SFWMD and COE to verify the delineated wetland and Tree Island boundaries.

MSA coordinated as necessary with PARD's survey personnel following field verification by COE and SFWMD regarding locations of flagged wetland areas and Tree Island boundaries, SHW and review the resulting delineation survey for



Aerial view of Tree Island Park

accuracy prior to agency submittal. MSA developed a mitigation plan based on the final site design and anticipated impacts to wetlands and Tree Islands for on-site mitigation and/or purchase of credits from an approved offsite mitigation bank.

The MSA project Team prepared the Joint Environmental Resource permit application (SFWMD, USACE, DERM, USFWLS) and the DERM Class-IV permit application. The applications included appropriate exhibits and calculations.

Preparation of Design Development Plans - Upon receipt of the final site plan and the topographic and cadastral survey, MSA prepared final water management calculations, paving, grading and drainage plans and drainage calculations. These plans were included in the Environmental permit applications described above. The plans included the location of drainage catch basins, exfiltration trenches, the site grading scheme, typical section along proposed internal roadways, parking areas and wet/dry retention areas as well as at the perimeter of the property.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a ·	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
b ·	Milian, Swain & Associates, Inc.	Miami, Florida	Civil and Environmental Engineering Services
c ·	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
d ·	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
e ·	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role
f ·	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) Role

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 5
---	--

21. TITLE AND LOCATION (City and State) <i>New West Lot Parking Garage and Office Building Facility - City of Miami, Florida</i>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER <i>Miami-Dade County ISD (Formerly GSA)</i>	b. POINT OF CONTACT NAME <i>Mark Lefrance</i>	c. POINT OF CONTACT TELEPHONE NUMBER <i>LAFRAM@miamidade.gov - (305) 665-0641</i>
---	--	--

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Milian, Swain & Associates, Inc. (MSA) provided Civil Engineering Services for the Miami-Dade County GSA New West Lot parking garage and office building facility (2nd LEED Certified Miami Dade County owned facility) project located at the NW quadrant of intersection between NW 2nd Avenue and NW 2nd Street in Miami, Florida. MSA's scope of services includes the following:



Design & Permitting: MSA prepared civil infrastructure constructions drawings, technical specifications and provided regulatory process and construction phase assistance as follows:

Preliminary Engineering

1. MSA reviewed preliminary draft of the surveys and provided comments on the sufficiency of the survey data presented. The Surveyor revised the survey considering MSA's preliminary review comments and submitted final survey to MSA for preparation of final civil infrastructure design drawings.
2. MSA requested utility records that may have been already received by the Design Build Team, reviewed data received and requested, when needed, additional utility data through "Sunshine One Call of Florida" from the utility companies listed as having under/aboveground utilities within and adjacent to the project site; including requesting applicable water and sewer as-built from MDWASD.
3. Assisted in requesting a Water Agreement from the MDWASD. Services included:
 - Requested and obtained Survey and site plan from the Client.
 - Prepared and submitted formal Request for Zoning Verification letter to City of Miami - Planning & Zoning Dept.
 - Prepared and submitted Request for Agreement package to the MDWASD-New Business Section.
 - Retrieved, reviewed, submitted preliminary agreement to the Owner through Client for review and execution.
 - Requested Agreement fees from the Owner through the Client.
 - Submitted Agreement to MDWASD executed by the Client.

Design-Water Distribution System

1. Offsite 12-inch Watermain Extensions (NW 2ND Street and NW 2ND Avenue): There is an existing 4-inch watermain located within NW 2nd street from NW 3rd avenue to NW 2nd Avenue. In addition, there is an existing 6-inch watermain on NW 2nd Avenue from NW 3rd Street to NW 2nd Street. Preliminary discussion with MDWASD indicates that the existing 4-inch and 6 -inch mains must be replaced with new 12-inch watermain extensions. MSA prepared plan & profile design drawings for a new 12-inch watermain extension and related appurtenances. The new 12-inch water main extension was designed along and within the NW 2nd Avenue Right of Way from the intersection with NW 3rd Street to the intersection with NW 2nd Street, then west along and within the NW 2nd Street Right of Way to the southwest corner of the project site (Approx. 650 l.f.).

2. MSA prepared design drawings for new firelines, water services, backflow preventers, domestic and irrigation meters to serve the domestic and site fire demands for the proposed development.
3. MSA coordinated with the mechanical/plumbing and irrigation consultants for required diameter and location of the water and irrigation services and firelines; as applicable to the project.

Design-Gravity Sewer System

Designed new onsite sanitary sewer service laterals to serve the proposed building and connecting to existing public sewer manholes located within the public road rights of way directly abutting the project site.

Design - Paving, Grading, Drainage, Traffic Signage & Pavement Markings

1. MSA prepared onsite paving, grading, drainage, traffic signage, markings plans and pertinent details for the proposed driveway connections to adjacent public roads. In addition, MSA will establish the minimum grading criteria for the ground floor of the parking garage coordinated with the Client and MEP consultant.
2. The storm water management system was designed to satisfy the water quality and water quantity requirements of the Miami-Dade County RER - Water Control Section and City of Miami Public Works Department, using gravity drainage wells and exfiltration trenches as the methods of stormwater disposal.
3. MSA prepared necessary drainage calculations required for the proposed drainage improvements per Miami Dade County RER – Water Control Criteria.
4. MSA prepared a Stormwater Pollution Prevention Plan (SWPPP) for compliance with the National Pollutant Elimination System (NPDES) for the project.

LEED Compliance: MSA provided sustainable civil infrastructure designs for the project to satisfy LEED credits that helped to achieve a silver LEED Certification for the new development.

Regulatory Process Assistance: MSA assisted in obtaining approvals from the regulatory agencies having jurisdiction over the civil infrastructure systems as follows:

1. Identify all processing and permit fees required by the regulatory agencies and request fees from the Client. Prepare and submit permit applications and drawings to the following agencies for review and approval:

Water Distribution and Sewage Collection Systems

- Miami Dade Water and Sewer Department.
- City of Miami Fire Department.
- City of Miami Public Works Department.
- Miami-Dade County RER - Water Supply & Wastewater Sections.
- Miami-Dade County Health Department

Paving, Grading, Drainage, Traffic Signage & Pavement Markings Systems

- City of Miami Public Works Department.
- Miami-Dade County RER – Water Control Section
- FDEP (Class-V Gravity Well Permit)

2. MSA monitored agency review progress, retrieve approved plans and revise drawings if needed, to reflect all agency review comments.

Construction Phase Services:

MSA assisted during the Construction phase of the project as follows:

1. Attended Pre-Construction meeting with Owner, Client and Contractor.
 2. Reviewed and approved civil infrastructure shop drawings.
 3. Performed construction observations to observe the general status and progress of the civil work; including writing and distribution of construction observation report after each site visit.
 4. Provided minor design revisions and clarification of the civil construction documents, if required per actual field conditions encountered.
-

5. Performed a Substantial Completion Construction observation of the proposed civil improvements, to ensure that the work completed meets the minimum requirements for substantial completion in accordance with the Contract Documents, including preparation of a Punch List of any defects and discrepancies in the CIVIL work.
6. Reviewed civil as-built drawings prepared by contractor's surveying consultant for compliance with the approved construction documents, prepare and submit completion of construction certifications for applicable civil infrastructure improvements.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a .	(1) FIRM NAME Milian, Swain & Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Miami, Florida	(3) Role Civil Engineering Services
b .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
c .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
d .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
e .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role
f .	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) Role

2. Work Performed for the City of Coral Gables

1. C-3 Canal (Coral Gables Waterway) Restoration Design

- a. **Name of the City Department for which the services are being performed:** Public Works Department
- b. **Scope/Description of Work:** MSA provided professional engineering services for the C-3 Canal (Coral Gables Waterway) Restoration project. The services sought to improve conveyance of



the C-3 canal downstream of the G-93 Structure located at the intersection with Red Road (S.W. 57th Avenue). The canal was excavated to a design elevation of -10 NGVD. This restoration program provided for the removal of accumulated sediments, which could potentially obstruct the canal's effective stormwater conveyance and result in localized flooding conditions. MSA identified several segments in need of immediate dredging to improve the conveyance of the C-3 canal. MSA coordinated and

managed the performance of soil sampling and testing to identify the possible presence of contaminants of concern for the purpose of determining dredged material reuse alternatives and material requiring separation during construction in accordance with Miami-Dade County Department of Environmental Resources Management (DERM) requirements. MSA prepared design plans that depicted the canal's sediment layer to be removed to the original bottom elevation (or the proposed bottom elevation of -10 NGVD). MSA developed the engineering plans based on the information contained in the topographic survey. The engineering plans were developed to provide a depiction of the canal's sediment layer for purposes of its removal during construction. The engineering plans provided an overall plan view of the respective canal with a tabulation of the resulting sediment removal quantities and shall provide useful construction information such as water levels from canal centerlines per station, canal width per station, estimated sediment volumes between stations, top of sediment elevation tabulations per station, original canal bottom elevations, top of bank elevations (North/East and South/West) per station, estimated depth of sediment at canal centerlines per station, linear footages between station, and changes in canal longitudinal alignment in terms of degrees. MSA estimated the quantity of sediments to be removed, developed Construction Technical Specifications, and provided an Engineer's Opinion of Probable Cost (EOPC) for the proposed dredging work. MSA assisted the City of Coral Gables in obtaining the approvals from the regulatory agencies. MSA applied and obtained the special permit from the Florida Fish and Wild Life Conservation Commission (FWCC) to allow access to the surveyors into the canal due to the entry restrictions between November 15 and April 30 during the manatee season. MSA applied and obtained DERM Class I permit. MSA compiled all backup information regarding the estimated existing sediment volumes within the C-3 Canal to allow DERM to estimate the maximum amount of sediment that could be removed once the dredging activities began. MSA prepared field Notes of soundings of the C-3 Canal between Structure G-93 and Bird Road (Reference Public Work Survey Book

No. 6-85). MSA applied and obtained Environmental Resource Permit (ERP) with the Department of Environmental Protection (DEP), and the U.S. Corps of Engineers (USCOE). Additional soundings were performed along the rest of the canal's alignment to determine other critical areas with excessive sedimentation. Coordinated and assisted in the subaqueous inspections of the existing culverts in two separate locations (intersection of the secondary canal and Stanford Road and the intersection of the secondary canal with US-1), to ascertain their existing condition and level of sedimentation. Analyzed the data obtained and identified the critical areas in need of immediate dredging work to improve conveyance. Prepared and provided a report that included the canal's longitudinal profile at the centerline and identified the location of critical areas. MSA prioritized the most critical canal segments that are obstructing the canal's conveyance.



- c. **Awarded value of the contract/current value:** \$167,706
- d. **Effective dates and term of the contract:** 2005 - 2011
- e. **City project manager's name and phone number:** James Kay, P.E., no longer with the City of Coral Gables
- f. **Statement of whether the Proposer was the prime contractor or subcontractor:** Prime Contractor
- g. **Results of the project:** Permits were obtained and the dredging was completed. Prior to commencement of the project. MSA Principal and former SFWMD governing board member Arsenio Milian was able to prepare the technical arguments used by the City to obtain funding from the SFWMD for this project since the City had failed to seek and obtain funds from FEMA.

2. Development of Stormwater Utility

- a. **Name of the City Department for which the services are being performed:** Public Works Department (subconsultant to CDM)
- b. **Scope/Description of Work:** MSA was retained to assist the Prime contractor in the development of its Stormwater Utility Program for the City of Coral Gables (City). MSA first determined the current operating and maintenance costs associated with providing stormwater-related services for the City (approx. 12 sq. miles). This was accomplished through reviews of the City's budget information and interviews of City staff. MSA determined the current stormwater permitting procedures and staffing by reviewing the City's present procedures, budget information, and established ordinances, including needs for mapping, planning, design, and related needs. MSA reviewed and updated stormwater related capital improvements plans that had been previously identified and prioritized by the City, by examining the City's Capital Improvement Plan (CIP) and related reports and interviewing staff. MSA conducted numerous interviews of City staff to project the total annual cost of operating the City's Stormwater System for a ten (10) year period. Cost categories included administration, repair and replacement, and capital improvements, with particular focus on future staffing and equipment requirements. The analysis was then used to develop the stormwater utility user-fee for the City.

MSA developed the billing base for non-residential customers. MSA first obtained parcel data provided by the Property Appraiser's Office to CDM. MSA then calculated the impervious area from aerial photographs and parcel boundary maps, when possible, and used those calculations to verify the accuracy of the information contained on the Property Appraiser's computer files. Where aerial photographs and parcel boundary maps could not be reliably used due to such conflicts as tree canopies, MSA conducted field surveys. Through CDM, MSA then obtained Miami-Dade Water and Sewer Department (MDWASD) billing data files. Using location of meters, MSA allocated stormwater billing accounts to MDWASD water billing accounts. Where billing accounts did not match parcels, MSA allocated meters and parcels so that rates could be billed by MDWASD.

- c. **Awarded value of the contract/current value:** \$85,300
- d. **Effective dates and term of the contract:** 1992 – 1993
- e. **City project manager's name and phone number:** Maria Menendez, no longer with the City of Coral Gables.
- f. **Statement of whether the Proposer was the prime contractor or subcontractor:** Milian, Swain & Associates, Inc. were Subcontractors to CDM
- g. **Results of the project:** Recommended rates adopted and implemented in 1993.

3. Stormwater Utility Update

- a. **Name of the City Department for which the services are being performed:** Public Works Department (subconsultant to CDM)
- b. **Scope/Description of Work:** MSA was retained to assist in the reevaluation and update of its Stormwater Utility Program. MSA reviewed the current administration, operation, and maintenance costs associated with providing stormwater related services. This was accomplished through a review of the current City's budget and an interview with City staff. MSA reviewed the current expenditures associated with one-time costs for equipment purchases and capital improvement associated with providing stormwater related services. This was also accomplished through a review of the current City's budget and an interview with City staff. Based on the information obtained MSA re-compiled existing tables from the original rate study, illustrating the values projected in the previous estimate versus the values projected through the re-evaluation process. This information was presented in tabular form for a ten-year period covering Fiscal Years 1995/1996 through Fiscal Year 2004/2005 taking into consideration inflation factors.
- c. **Awarded value of the contract/current value:** \$2,007
- d. **Effective dates and term of the contract:** 1995 – 1996
- e. **City project manager's name and phone number:** Maria Menendez, no longer with the City of Coral Gables.
- f. **Statement of whether the Proposer was the prime contractor or subcontractor:** Milian, Swain & Associates, Inc. were Subcontractors to CDM
- g. **Results of the project:** Report depicting change in financial conditions presented

4. Stormwater Utility Billing Data Update

- a. **Name of the City Department for which the services are being performed:** Public Works Department (subconsultant to CDM)

- b. **Scope/Description of Work:** MSA was retained to assist in updating the City's stormwater utility billing data files to include new non-residential construction and additional impervious area improvements to existing non-residential properties constructed from the time the Stormwater Program was implemented to the time of this update. The City billed their Stormwater Utility customers by including their fees in the Miami-Dade Water and Sewer Department's (MDWASD) utility bills. Under a separate project, the prime contractor, CDM, had identified 591 folio numbers in the Property Appraiser's data that did not have a matching MDWASD billing file and which could potentially be a new stormwater utility account. MSA reviewed each of the 591 folio numbers found in the Property Appraiser's database to determine whether they were potential new stormwater utility accounts. For those parcels found to be potential new stormwater utility accounts, the impervious area, dwelling units and other pertinent parcel information was determined. Parcel data was obtained from the Property Appraiser's information, water and sewer utility information, aerial photographs, parcel boundary maps, site visits, and any other information that was available to the City. MSA calculated the number of equivalent residential units (ERUs) and the corresponding stormwater user fee charge for accounts in the master customer data file. After review by the City, MSA transmitted this information to MDWASD for incorporation into their stormwater utility billing file. MSA coordinated with MDWASD so that this information was transmitted to MDWASD in an acceptable format and obtained from MDWASD a copy of their updated billing file for the City's use.
- c. **Awarded value of the contract/current value:** \$11,020
- d. **Effective dates and term of the contract:** 1999
- e. **City project manager's name and phone number:** Maria Menendez, no longer with the City of Coral Gables.
- f. **Statement of whether the Proposer was the prime contractor or subcontractor:** Milian, Swain & Associates, Inc. were Subcontractors to CDM
- g. **Results of the project:** Information transmitted to MDWASD and the City for inclusion in stormwater utility bills

3. Discontinued Use List

MSA has not had any clients discontinue use of services within the past two years.

4. Incidents Within Last 5 Years

MSA has not had any incidents within the last 5 years where a civil, criminal, administrative, or other similar proceeding was filed or is pending,



SECTION V

1. Firm Licenses and Certifications





Milian, Swain & Associates, Inc.



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

MILIAN, SWAIN & ASSOCIATES, INC.

2025 SW 32ND AVENUE
MIAMI FL 33145

LICENSE NUMBER: CA5460

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

MILIAN, ARSENIO

2657 SW 23RD ST
MIAMI FL 331453427

LICENSE NUMBER: PE13134

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor

Hailey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

MILIAN, GABRIEL A.

2657 SW 23RD STREET
MIAMI FL 33145

LICENSE NUMBER: PE65927

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CARRILLO, ARNALDO J.

680 NW 82 PL, UNIT 262
MIAMI FL 33126

LICENSE NUMBER: PE67532

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

State of Florida

Department of State

I certify from the records of this office that MILIAN, SWAIN & ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 11, 1989, effective January 9, 1989.

The document number of this corporation is K58420.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on January 10, 2019, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Tenth day of January, 2019*



A. [Signature]
Secretary of State

Tracking Number: 3475487305CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>

Local Business Tax Receipt

Miami-Dade County, State of Florida

-THIS IS NOT A BILL - DO NOT PAY



3863413

BUSINESS NAME/LOCATION
MILIAN SWAIN & ASSOCIATES INC
2025 SW 32ND AVE 110
MIAMI FL 33145

RECEIPT NO.
RENEWAL
4033866

EXPIRES
SEPTEMBER 30, 2019

Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER
MILIAN SWAIN & ASSOCIATES INC

SEC. TYPE OF BUSINESS
212 P.A./CORP/PARTNERSHIP/FIRM
EB5460

**PAYMENT RECEIVED
BY TAX COLLECTOR**
\$45.00 07/06/2018
CHECK21-18-058801

Employee(s) 1

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

02/26/2019


PRODUCER LOUIS MORRISON LOUIS J. MORRISON C & C CONSULTANTS P O BOX 701340 ST CLOUD, FL 34770-1340	888-494-9844	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.
INSURED MILIAN, SWAIN & ASSOCIATES, INC. 2025 SW 32ND AVE MIAMI, FL 33145	INSURERS AFFORDING COVERAGE	
	INSURER A: EVEREST INDEMNITY INSURANCE CO.	NAIC # 10851
	INSURER B: EVEREST NATIONAL INSURANCE CO.	10120
	INSURER C:	
	INSURER D:	
	INSURER E:	

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YYYY)	POLICY EXPIRATION DATE (MM/DD/YYYY)	LIMITS
A	Y	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> WAIVER OF SUBROGATION GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	EF4ML05120-181 \$10,000 DEDUCTIBLE	11/13/18	11/13/19	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 3,000,000 PRODUCTS - COMP/OP AGG \$ 3,000,000
B	Y	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input checked="" type="checkbox"/> WAIVER OF SUBROGATION	EF4CA00132-181	11/13/18	11/13/19	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ GARAGE LIABILITY <input type="checkbox"/> ANY AUTO AUTO ONLY - EA ACCIDENT \$ OTHER THAN EA ACC \$ AUTO ONLY: AGG \$
A		EXCESS / UMBRELLA LIABILITY <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE DEDUCTIBLE <input checked="" type="checkbox"/> RETENTION \$ 10,000	EF4CU00548-181 (EXCESS OF POLICIES EF4ML05120-181 & EF4CA00132-181)	11/13/18	11/13/19	EACH OCCURRENCE \$ 4,000,000 AGGREGATE \$ 4,000,000 \$ \$ \$
		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under SPECIAL PROVISIONS below				WC STATU-TORY LIMITS <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A		OTHER CONTR. POLLUTION & PROFESSIONAL LIABILITY	EF4ML05120-181 \$25,000 DEDUCTIBLE	11/13/18	11/13/19	\$1,000,000 EACH OCCURRENCE \$3,000,000 GENERAL AGGREGATE

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

CERTIFICATE HOLDER <h2 style="text-align: center;">PROOF OF INSURANCE</h2>	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL <u>30</u> DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE 
--	---



ENVISION®

GABRIEL MILIAN

ENVISION SUSTAINABILITY PROFESSIONAL

Has received the Envision Sustainability Professional credential upon successful completion of the requisite training and exam.

April 5, 2018

Issued On

April 5, 2020

Valid Through

Anthony O. Kope, President and CEO
Institute for Sustainable Infrastructure



#25509



Internal Services Department
Small Business Development
111 NW 1 Street, 19th Floor
Miami, Florida 33128
T 305-375-3111
F 305-375-3160

February 25, 2019

Arsenio Milian
MILIAN, SWAIN & ASSOCIATES, INC.
2025 SW 32nd Ave
Suite 110
Miami, FL 33145

Approval Date: January 11, 2019 - Small Business Enterprise - Architectural & Engineering (SBE-A&E)
Anniversary Date: January 11, 2020

Dear Arsenio Milian,

Miami-Dade County Small Business Development (SBD), a division of Internal Services Department (ISD), is pleased to notify you of your firm's continuing eligibility as a certified Small Business Enterprise - Architectural & Engineering (SBE-A&E). The Small Business Enterprise (SBE) programs are governed by sections 2-8.1.1.1.1; 2-8.1.1.1.2; 2-10.4.01; 10-33.02 of Miami-Dade County's Codes. Your firm is certified in the categories listed below.

The Small Business Enterprise - Architectural & Engineering (SBE-A&E) certification is continuing through the Anniversary Date listed above, contingent upon your firm maintaining its eligibility based on the criteria outlined in the aforementioned code. You will be notified of your annual responsibilities in advance of the Anniversary Date. You must submit the annual AFFIDAVIT FOR CONTINUING ELIGIBILITY no later than the Anniversary Date to maintain your eligibility. Your firm's name and tier level will be listed in the directory for all SBE certified firms, which can be accessed through Miami-Dade County's SBD website: <http://www.miamidade.gov/smallbusiness/certification-lists.asp>.

If there is a material change in your firm, you must advise this office by submitting a status change form with the associated supporting documentation, within thirty (30) days. Changes may include, but are not limited to, ownership, officers, directors, management, key personnel, scope of work performed, daily operations, on-going business relationships with other firms or individuals or the physical location of your firm. After our review, you will receive instructions as to how you should proceed, if necessary. Failure to do so will be deemed a failure on your part to cooperate and will result in action to remove your firm's certification.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. If you have any questions or concerns, you may contact our office at 305-375-3111 or email sbdcert@miamidade.gov.

Sincerely,

Claudious Thompson, Section Chief
Small Business Development

CATEGORIES: (Your firm may bid or participate on contracts only under these categories)

- MDC-TCC 03-01: SITE DEVELOPMENT AND PARKING LOT DESIGN
- MDC-TCC 03-09: SIGNING, PAVEMENT MARKING, AND CHANNELIZATION
- MDC-TCC 04-01: ENGINEERING DESIGN
- MDC-TCC 06-01: WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION
- MDC-TCC 06-02: WATER AND SANITARY SEWAGE PUMPING FACILITIES
- MDC-TCC 06-03: WATER AND SANITARY SEWAGE TREATMENT PLANTS
- MDC-TCC 07: SOLID WASTE COLLECTION AND DISPOSAL SYSTEMS

MDC-TCC 10-01: STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES

MDC-TCC 10-10: COASTAL PROCESSES AND OCEAN ENGINEERING

MDC-TCC 16: GENERAL CIVIL ENGINEERING

MDC-TCC 17: ENGINEERING CONSTRUCTION MANAGEMENT

NAICS 541330: ENGINEERING SERVICES

State of Florida

Minority Business Certification

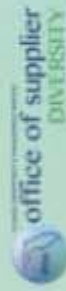
Milian, Swain & Associates, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

10/03/2018 to 10/03/2020



Erin Rock, Secretary
Florida Department of Management Services



wood.



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC

550 NORTHLAKE BLVD.
SUITE 1000
ALTAMONTE SPRINGS FL 32701

LICENSE NUMBER: CA5392

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

FRAXEDAS, RICARDO

3265 MAPLE LANE
DAVIE FL 33328-6794

LICENSE NUMBER: PE43287

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

CORNING, GREGORY WILLIAM

5239 TITLE ROW DRIVE
BRADENTON FL 34210

LICENSE NUMBER: PE79293

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

VANDERBECK, REBECCA JEANNE

12138 CATTAIL DRIVE WEST
JACKSONVILLE FL 32223

LICENSE NUMBER: PE64804

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

TOMCZYK, MARK E.

31 SE 5TH STREET
#1205
MIAMI FL 33131

LICENSE NUMBER: PE63171

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



GREEN BUILDING CERTIFICATION INSTITUTE

HEREBY CERTIFIES THAT

Stephen Hanks

HAS ACHIEVED THE DESIGNATION OF:

LEED® ACCREDITED PROFESSIONAL

BY DEMONSTRATING THE KNOWLEDGE OF GREEN BUILDING PRACTICE
REQUIRED FOR SUCCESSFUL IMPLEMENTATION OF THE LEADERSHIP IN ENERGY
AND ENVIRONMENTAL DESIGN (LEED®) GREEN BUILDING RATING SYSTEM™



Chairman

June 20, 2009

Date Issued

Peter Tompkins, President

Printed on 100% recycled paper, 50% post-consumer fiber with no plastic based inks.





RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

HBC ENGINEERING COMPANY

13155 SW 134TH STREET
SUITE 207
MIAMI FL 33186

LICENSE NUMBER: CA27160

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



**STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

BOARD OF PROFESSIONAL ENGINEERS
2639 NORTH MONROE STREET
SUITE B-112
TALLAHASSEE FL 32303

850.521.0500

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!

Florida
dbpr STATE OF FLORIDA DEPARTMENT
OF BUSINESS AND PROFESSIONAL
REGULATION

CA27160 ISSUED: 12/28/2018
ENGINEERING BUSINESS
HBC ENGINEERING COMPANY

Signature
LICENSED UNDER CHAPTER 471, FLORIDA STATUTES
EXPIRATION DATE: FEBRUARY 28, 2021



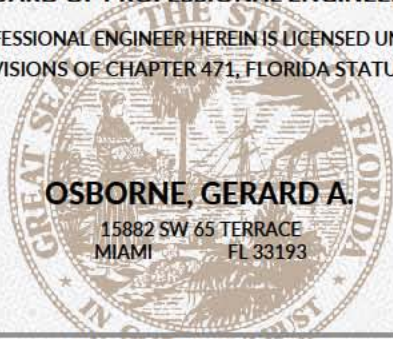
Ron DeSantis, Governor



STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



OSBORNE, GERARD A.

15882 SW 65 TERRACE
MIAMI FL 33193

LICENSE NUMBER: PE81522

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

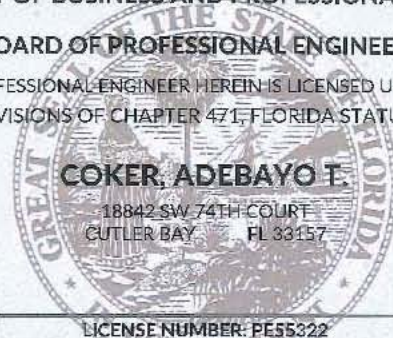


STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



COKER, ADEBAYO T.

18842 SW 74TH COURT
CUTLER BAY FL 33157

LICENSE NUMBER: PE55322

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

PRYTYKA, GREGORY ANDREI

1484 NW 208TH WAY
PEMBROKE PINES FL 33029

LICENSE NUMBER: PE36868

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

LOPEZ, JOSE A.

HC 4 BOX 16201
MOCA PR 00676

LICENSE NUMBER: PE81014

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



**Internal Services Department
Small Business Development**

111 NW 1 Street, 19th Floor
Miami, Florida 33128
miamidade.gov T 305-375-3111 F
305-375-3160

November 30, 2018

Adebayo Coker
HBC Engineering Company
13155 SW 134TH STREET
SUITE 207
MIAMI, FL 33186

Approval Date: November 5, 2018 - Small Business Enterprise - Architectural & Engineering (SBE-A&E)

Expiration Date: May 31, 2020

Dear Adebayo Coker,

Miami-Dade County Small Business Development (SBD), a division of the Internal Services Department (ISD) has completed the review of your application and attachments submitted for certification. Your firm is officially certified as a Miami-Dade County Small Business Enterprise - Architectural & Engineering (SBE-A&E). The Small Business Enterprise (SBE) programs are governed by sections 2-8.1.1.1.1; 2-8.1.1.1.2; 2-10.4.01; 10-33.02 of Miami-Dade County's Codes.

This Small Business Enterprise - Architectural & Engineering (SBE-A&E) certification is valid for three years provided that you submit a "Continuing Eligibility Affidavit" on or before your anniversary date, November 5, 2019. The affidavit must indicate any changes or no changes in your firm pertinent to your certification eligibility. The submittal of a "Continuing Eligibility Affidavit" annually with specific supporting documents on or before your Anniversary Date is required to maintain the three-year certification. You will be notified of this responsibility in advance of the Anniversary Date. Failure to comply with the said responsibilities may result in immediate action to decertify the firm.

If at any time there is a material change in the firm including, but not limited to, ownership, officers, director, scope of work being performed, daily operations, affiliation(s) with other businesses or the physical location of the firm, you must notify this office in writing within (30) days. Notification should include supporting documentation. You will receive timely instructions from this office as to how you should proceed, if necessary. This letter will be the only approval notification issued for the duration of your firm's three years' certification. If the firm attains graduation or becomes ineligible during the three-year certification period, you will be properly notified following an administrative process that your firm's certification has been removed pursuant to the code.

Your firm's name and tier level will be listed in the directory for all SBE certified firms, which can be accessed through Miami-Dade County's SBD website: <http://www.miamidade.gov/smallbusiness/certification-lists.asp>. The categories as listed below affords you the opportunity to bid and participate on contracts with Small Business Enterprise measures.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. Thank you for your interest in doing business with Miami-Dade County. If you have any questions or concerns, you may contact our office at 305-375-3111 or via email at sbdcert@miamidade.gov.

Sincerely,

Claudious Thompson, Section Chief
Small Business Development

MDC-TCC 03-01: SITE DEVELOPMENT AND PARKING LOT DESIGN
MDC-TCC 03-02: MAJOR HIGHWAY DESIGN
MDC-TCC 03-02B: MINOR HIGHWAY DESIGN
MDC-TCC 03-04: TRAFFIC ENGINEERING STUDIES
MDC-TCC 03-05: TRAFFIC COUNTS
MDC-TCC 03-06: TRAFFIC CALMING
MDC-TCC 03-07: TRAFFIC SIGNAL TIMING
MDC-TCC 03-09: SIGNING, PAVEMENT MARKING, AND CHANNELIZATION
MDC-TCC 03-10: LIGHTING
MDC-TCC 03-11: SIGNALIZATION
MDC-TCC 05-01: ENGINEERING DESIGN
MDC-TCC 05-05: CARGO TERMINAL DESIGN
MDC-TCC 05-07: SECURITY SYSTEMS
MDC-TCC 06-01: WATER DISTRIBUTION AND SANITARY SEWAGE COLLECTION AND TRANSMISSION
MDC-TCC 06-02: WATER AND SANITARY SEWAGE PUMPING FACILITIES
MDC-TCC 06-03: WATER AND SANITARY SEWAGE TREATMENT PLANTS
MDC-TCC 10-01: STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES
MDC-TCC 13: GENERAL ELECTRICAL ENGINEERING
MDC-TCC 16: GENERAL CIVIL ENGINEERING
MDC-TCC 17: ENGINEERING CONSTRUCTION MANAGEMENT
NAICS 541330: ENGINEERING SERVICES



Internal Services Department
Small Business Development
111 NW 1 Street, 19th Floor
Miami, Florida 33128
T 305-375-3111
F 305-375-3160

March 6, 2019

Adebayo Coker
HBC Engineering Company
13155 SW 134th Street Suite 207
MIAMI, FL 33186

Approval Date: January 8, 2019 - Disadvantaged Business Enterprise (DBE)
Anniversary Date: January 8, 2020

Dear Adebayo Coker,

Miami-Dade County Small Business Development (SBD), a division of the Internal Services Department (ISD), is pleased to notify you that your firm is certified under the Florida Unified Certification Program (UCP). Your firm meets the eligibility requirements for certification as a Disadvantaged Business Enterprise (DBE) in accordance with 49 CFR Part 26.

DBE certification is continuous with no expiration date; however, firms are required to attest that there are no changes via the No Change Declaration form on or before the firm's anniversary date to remain certified. You will be notified of your annual responsibilities in advance of the Anniversary Date listed above. You must submit the annual No Change Declaration form no later than the Anniversary Date to maintain your eligibility. Your firm will be listed in the UCP DBE Directory which can be accessed through the Florida Department of Transportation's website: <http://www3b.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/>.

DBE certification is NOT a guarantee of work, but it enables the firm to compete for and perform contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If at any time there is a material change in your firm, you must advise this office by sworn affidavit and supporting documentation within thirty (30) days. Changes include, but are not limited to ownership, officers, directors, management, key personnel, scope of work performed, daily operations, on-going business relationships with other firms, individuals or the physical location of your firm. After our review, you will receive instructions as to how you should proceed, if necessary. Failure to comply will result in action to remove your firm's DBE certification.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. Thank you for your interest in doing business with Miami-Dade County. If you have any questions or concerns, you may contact our office at 305-375-3111 or sbdcert@miamidade.gov.

Sincerely,



Claudious Thompson, Section Chief
Small Business Development

NAICS & Industry Title: (Your firm is eligible to compete for and perform work on all USDOT Federal Aid projects throughout Florida and may earn DBE or ACDBE credit for work performed in the following areas.)

NAICS 541330: ENGINEERING SERVICES





Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

GEOSOL, INC.

5975-A NW 151ST STREET
MIAMI LAKES FL 33014

LICENSE NUMBER: CA8530

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

RICCOBONO, ORACIO

5168 LAKEWOOD DRIVE
COOPER CITY FL 33330

LICENSE NUMBER: PE49324

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.



Ron DeSantis, Governor

Halsey Beshears, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

ISMAIL, ADNAN A.

17916-C NW 67TH AVENUE, C
HIALEAH FL 33015

LICENSE NUMBER: PE76014

EXPIRATION DATE: FEBRUARY 28, 2021

Always verify licenses online at MyFloridaLicense.com



Do not alter this document in any form.

This is your license. It is unlawful for anyone other than the licensee to use this document.

Local Business Tax Receipt

Miami-Dade County, State of Florida

-THIS IS NOT A BILL - DO NOT PAY

LBT

4316519

BUSINESS NAME/LOCATION

GEOSOL INC
5795 NW 151ST ST A
MIAMI LAKES FL 33014

RECEIPT NO.

RENEWAL
4504982

EXPIRES
SEPTEMBER 30, 2019

Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER

GEOSOL INC

Employee(s) 1

SEC. TYPE OF BUSINESS

212 P.A./CORP/PARTNERSHIP/FIRM
EB8530

**PAYMENT RECEIVED
BY TAX COLLECTOR**

\$45.00 07/12/2018
CREDITCARD-18-053167

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector

Local Business Tax Receipt

Miami-Dade County, State of Florida

-THIS IS NOT A BILL - DO NOT PAY

LBT

4316527

BUSINESS NAME/LOCATION

RICCOBONO ORACIO PE
5795 NW 151ST ST A
MIAMI LAKES FL 33014

RECEIPT NO.

RENEWAL
4504990

EXPIRES
SEPTEMBER 30, 2019

Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER

RICCOBONO ORACIO PE

SEC. TYPE OF BUSINESS

212 PROFESSIONAL
PE49324

**PAYMENT RECEIVED
BY TAX COLLECTOR**

\$60.00 07/12/2018
CREDITCARD-18-053167

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector

State of Florida

Department of State

I certify from the records of this office that GEOSOL, INC. is a corporation organized under the laws of the State of Florida, filed on April 7, 2000.

The document number of this corporation is P00000035530.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on February 18, 2019, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Eighteenth day of February,
2019*



Samuel R. Bee
Secretary of State

Tracking Number: 5783803582CC

To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.

<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



**Internal Services Department
Small Business Development**

111 NW 1 Street, 19th Floor
Miami, Florida 33128
miamidade.gov T 305-375-3111 F
305-375-3160

January 5, 2018

Oracio Riccobono
GEOSOL, INC.
5795 NW 151st St
Suite A
Miami Lakes, FL 33014

Approval Date: October 31, 2017 - Small Business Enterprise -
Architctural & Engineering (SBE - A&E) Tier 3
Expiration Date: October 31, 2020

Dear Oracio Riccobono,

Miami-Dade County Small Business Development (SBD), a division of the Internal Services Department (ISD) has completed the review of your application and attachments submitted for certification. Your firm is officially certified as a Miami-Dade County Small Business Enterprise - Architectural & Engineering (SBE - A&E) in accordance with section 2-10.4.01 of the code of Miami-Dade County.

This (SBE/AE) certification is valid for three years provided that you submit a "Continuing Eligibility Affidavit" on or before your anniversary date, **October 31, 2018**. The affidavit must indicate any changes or no changes in your firm pertinent to your certification eligibility. The submittal of a "Continuing Eligibility Affidavit" **annually** with specific supporting documents on or before your Anniversary Date is required to maintain the three year certification. You will be notified of this responsibility in advance of the Anniversary Date. Failure to comply with the said responsibilities may result in immediate action to decertify the firm.

If at any time there is a material change in the firm including, but not limited to, ownership, officers, director, scope of work being performed, daily operations, affiliation(s) with other businesses or the physical location of the firm, you must notify this office in writing within (30) days. Notification should include supporting documentation. You will receive timely instructions from this office as to how you should proceed, if necessary.

This letter will be the only approval notification issued for the duration of your firm's three years certification. If the firm attains graduation or becomes ineligible during the three year certification period, you will be properly notified following an administrative process that your firm's certification has been removed pursuant to the code.

Your company is certified in the categories as listed below affording you the opportunity to bid and participate on contracts with Small Business Enterprise measures.

Please note that the categories listed are very general and are used only to assist our customers in searching the directory for certified firms to meet contract goals. You can find the firm's up-to-date certification profile as well as all other certified firms on the Miami-Dade County Internal Services Department, Small Business Development Certified Firms' Directory at the website <http://www.miamidade.gov/smallbusiness/certification-programs.asp>.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. Thank you for your interest in doing business with Miami-Dade County. If you have any questions or concerns, you may contact our office at 305-375-3111 or sbdcertmiamidade.gov.

Sincerely,



Claudious Thompson, Section Chief
Small Business Development

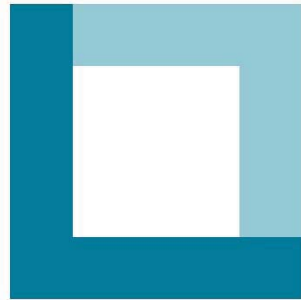
CATEGORIES: (Your firm may bid or participate on contracts only under these categories)

MDC-TCC 09-01: DRILLING, SUBSURFACE INVESTIGATIONS AND SEISMOGRAPIC SERVICES

MDC-TCC 09-02: GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES

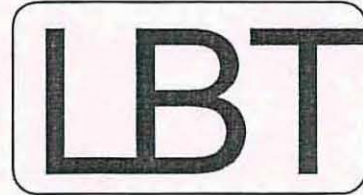
MDC-TCC 10-05: CONTAMINATION ASSESSMENT AND MONITORING

NAICS 541330: ENGINEERING SERVICES



**LONGITUDE
SURVEYORS**

Local Business Tax Receipt
Miami-Dade County, State of Florida
-THIS IS NOT A BILL - DO NOT PAY



7077225

BUSINESS NAME/LOCATION
LONGITUDE SURVEYORS LLC
7769 NW 48TH ST STE 375
DORAL, FL 33166

RECEIPT NO.
RENEWAL
5450259

**EXPIRES
SEPTEMBER 30, 2019**
Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER
LONGITUDE SURVEYORS LLC
C/O EDUARDO M SUAREZ MGR

SEC. TYPE OF BUSINESS
212 P.A./CORP/PARTNERSHI
P/FIRM

PAYMENT RECEIVED
BY TAX COLLECTOR
112.50 07/12/2018

Employee(s) 25

CREDITCARD-18-053563

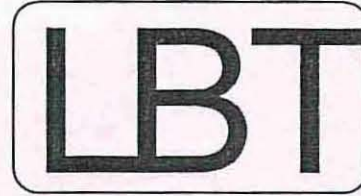
This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector



Local Business Tax Receipt
Miami-Dade County, State of Florida
- THIS IS NOT A BILL - DO NOT PAY



5282587

BUSINESS NAME/LOCATION
SUAREZ EDUARDO MIGUEL LS
7769 NW 48TH ST STE 375
DORAL, FL 33166

RECEIPT NO.
RENEWAL
5450267

**EXPIRES
SEPTEMBER 30, 2019**

Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER
SUAREZ EDUARDO MIGUEL LS
C/O LONGITUDE SURVEYORS LLC

SEC. TYPE OF BUSINESS
212 PROFESSIONAL

LS6313

PAYMENT RECEIVED
BY TAX COLLECTOR
60.00 07/12/2018
CREDITCARD-18-053563

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector





**Internal Services Department
Small Business Development**

111 NW 1 Street, 19th Floor
Miami, Florida 33128
T 305-375-3111
F 305-375-3160

January 22, 2019

Eduardo Suarez
LONGITUDE SURVEYORS, LLC DBA N/A
7715 NW 48 Street
Suite 310
DORAL, FL 33166

Approval Date: November 29, 2018 - Disadvantaged Business Enterprise (DBE)

Anniversary Date: November 29, 2019

Dear Eduardo Suarez,

Miami-Dade County Small Business Development (SBD), a division of the Internal Services Department (ISD), is pleased to notify you that your firm is certified under the Florida Unified Certification Program (UCP). Your firm meets the eligibility requirements for certification as a Disadvantaged Business Enterprise (DBE) in accordance with 49 CFR Part 26.

DBE certification is continuous with no expiration date; however, firms are required to attest that there are no changes via the No Change Declaration form on or before the firm's anniversary date to remain certified. You will be notified of your annual responsibilities in advance of the Anniversary Date listed above. You must submit the annual No Change Declaration form no later than the Anniversary Date to maintain your eligibility. Your firm will be listed in the UCP DBE Directory which can be accessed through the Florida Department of Transportation's website: <http://www3b.dot.state.fl.us/EqualOpportunityOfficeBusinessDirectory/>.

DBE certification is NOT a guarantee of work, but it enables the firm to compete for and perform contract work on all USDOT Federal Aid (FAA, FTA and FHWA) projects in Florida as a DBE contractor, sub-contractor, consultant, sub-consultant or material supplier.

If at any time there is a material change in your firm, you must advise this office by sworn affidavit and supporting documentation within thirty (30) days. Changes include, but are not limited to ownership, officers, directors, management, key personnel, scope of work performed, daily operations, on-going business relationships with other firms, individuals or the physical location of your firm. After our review, you will receive instructions as to how you should proceed, if necessary. Failure to comply will result in action to remove your firm's DBE certification.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. Thank you for your interest in doing business with Miami-Dade County. If you have any questions or concerns, you may contact our office at 305-375-3111 or sbdcert@miamidade.gov.

Sincerely,



Claudious Thompson, Section Chief
Small Business Development

NAICS & Industry Title: (Your firm is eligible to compete for and perform work on all USDOT Federal Aid projects throughout Florida and may earn DBE or ACDBE credit for work performed in the following areas.)

NAICS 541370: SURVEYING AND MAPPING SERVICES (EXCEPT GEOPHYSICAL)



January 22, 2019

Eduardo Suarez
LONGITUDE SURVEYORS, LLC DBA N/A
7715 NW 48 Street
Suite 310
DORAL, FL 33166

Approval Date: November 29, 2018 - Small Business Enterprise - Architectural & Engineering (SBE-A&E)
Expiration Date: November 30, 2021

Dear Eduardo Suarez,

Miami-Dade County Small Business Development (SBD), a division of the Internal Services Department (ISD) has completed the review of your application and attachments submitted for certification. Your firm is officially certified as a Miami-Dade County Small Business Enterprise - Architectural & Engineering (SBE-A&E). The Small Business Enterprise (SBE) programs are governed by sections 2-8.1.1.1.1; 2-8.1.1.1.2; 2-10.4.01; 10-33.02 of Miami-Dade County's Codes.

This Small Business Enterprise - Architectural & Engineering (SBE-A&E) certification is valid for three years provided that you submit a "Continuing Eligibility Affidavit" on or before your anniversary date, November 29, 2019. The affidavit must indicate any changes or no changes in your firm pertinent to your certification eligibility. The submittal of a "Continuing Eligibility Affidavit" annually with specific supporting documents on or before your Anniversary Date is required to maintain the three-year certification. You will be notified of this responsibility in advance of the Anniversary Date. Failure to comply with the said responsibilities may result in immediate action to decertify the firm.

If at any time there is a material change in the firm including, but not limited to, ownership, officers, director, scope of work being performed, daily operations, affiliation(s) with other businesses or the physical location of the firm, you must notify this office in writing within (30) days. Notification should include supporting documentation. You will receive timely instructions from this office as to how you should proceed, if necessary. This letter will be the only approval notification issued for the duration of your firm's three years' certification. If the firm attains graduation or becomes ineligible during the three-year certification period, you will be properly notified following an administrative process that your firm's certification has been removed pursuant to the code.

Your firm's name and tier level will be listed in the directory for all SBE certified firms, which can be accessed through Miami-Dade County's SBD website: <http://www.miamidade.gov/smallbusiness/certification-lists.asp>. The categories as listed below affords you the opportunity to bid and participate on contracts with Small Business Enterprise measures.

It is strongly recommended that you register your firm as a vendor with Miami-Dade County. To register, you may visit: <http://www.miamidade.gov/procurement/vendor-registration.asp>. Thank you for your interest in doing business with Miami-Dade County. If you have any questions or concerns, you may contact our office at 305-375-3111 or via email at sbdcert@miamidade.gov.

Sincerely,

Claudious Thompson, Section Chief
Small Business Development

CATEGORIES: (Your firm may bid or participate on contracts only under these categories)

MDC-TCC 15-02: AERIAL PHOTOGRAMMETRY

MDC-TCC 15-03: UNDERGROUND UTILITY LOCATION

NAICS 541370: SURVEYING AND MAPPING (EXCEPT GEOPHYSICAL) SERVICES

03/21/2019

Mr. Eduardo M. Suarez
President
Longitude Surveyors, LLC.
7769 N.W. 48th St., Suite # 375
Doral, Florida 33166

CERTIFICATION #: 13 - 05 - 1171 - 7

EFFECTIVE DATE: 03 / 21 / 2019

EXPIRATION DATE: 03 / 20 / 2020

RE: Local Business Certification

Dear Mr. Suarez,

The Miami-Dade Expressway Authority (“MDX”), is in receipt of the Local Business Certification Application inclusive of all required documentation, (the “Application”), submitted by your firm, (the “Applicant”). MDX has reviewed and processed the Application pursuant to the requirements of the MDX Local Business Participation Policy (the “Policy”).

Based on the information included in the Application, MDX hereby certifies the Applicant as a Local Business that has met the criteria described in the Policy. This certification is valid for one (1) year from the effective date on this letter, conditioned upon the Applicant’s continuous compliance with the criteria described in the Policy.

It is the responsibility of the Applicant to ensure its annual recertification prior to expiration. To avoid a lapse in certification, the Applicant shall submit a completed Application along with required documentation to MDX in sufficient time to allow for processing.

An Applicant that provides fraudulent information on the Application or misrepresents its qualifications as a Local Business in a Proposal or Bid submitted to MDX will lose the privilege to Local Business Certification for a period of up to two (2) years. In addition, the firm may be suspended from all future MDX procurements for a period not to exceed two (2) years from the date the misrepresentation was discovered by MDX.

It is the responsibility of the Applicant to notify MDX of any changes in the information provided in the Application that may affect the Applicant’s certification status. In addition, MDX reserves the right to require further verification and updated information at any time.

Should you have any questions, please feel free to contact me.

Sincerely,

Helen M. Cordero

Helen M. Cordero, CPPB
Manager of Procurement & Contract Administration