

RFQ NO. 2024-007

# TRANSPORTATION PLANNING AND ENGINEERING CONSULTING SERVICES

3.14.2024



## ARDURRA

8600 NW 17TH ST, STE 200 DORAL, FL 33126  
786.228.5666

## SILVIA BELTRE, PE

SBELTRE@ARDURRA.COM

CORAL  
GABLES  
THE CITY BEAUTIFUL

ARDURRA



# SECTION I

*Title Page, Table Of Contents,  
Required Forms, & Minimum  
Qualification Requirements*



**CORAL  
GABLES**  
THE CITY BEAUTIFUL

  
**ARDURRA**



March 14, 2024

Tanya D. Donigan | Assistant Chief Procurement Officer  
City of Coral Gables  
405 Biltmore Way  
Coral Gables, FL 33134

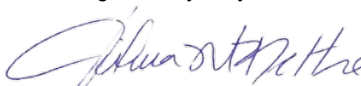
**Subject: RFQ 2024-007 Transportation Planning and Engineering Consulting Services**

Dear Ms. Donigan and Selection Committee Members:

Ardurra Group, Inc. (ARDURRA) is pleased to submit our response to RFQ No. 2024-007 “Transportation Planning and Engineering Consulting Services” for your consideration. We have structured this response to address the specific items requested in the Solicitation and have supplemented it with information to demonstrate our thorough understanding of the requirements and our tested & proven project approach to support the City of Coral Gables. We have strategically assembled an experienced Team of local professionals that meet and exceed the requirements of this solicitation. Our Team brings more than 46 years of progressive experience in the areas of transportation planning, design, permitting, bid/award, construction management, and operations & maintenance. Below are some of the key advantages and added value that our Team brings to the City:

- **Knowledge of the City’s Processes & Procedures.** We are already here. There is no learning curve. We have had the privilege of being your engineering consultant for the last eight (8) years under the umbrella of our recently acquired firm 300 Engineering Group, LLC. We are a trusted Partner. While working extensively on your sewer and stormwater systems, our Team has learned your internal processes & procedures. This has given us a unique experience which has allowed us to deliver efficient projects and provide the highest quality of service
- **Transportation Engineering and Transportation Planning.** Our Traffic Engineering and Transportation Planning experts have assisted cities, counties and the Florida Department of Transportation (FDOT) with various traffic and planning services including review of Traffic Impact Studies, Site Plans and Development of Regional Impacts, conducted multimodal area studies, traffic studies and supported interchange access requests. We have also prepared scoping reports, delivered traffic calming projects, and provided specialized experience in various types of Intelligent Transportation Systems (ITS) and systems integration including computerized traffic signal system, street, light rail transit, advanced traffic management system and automated travel information systems
- **Sustainable, Resilient & Green Infrastructure Designs.** ARDURRA understands that the City is at the forefront of Sustainable, Resilient & Green Infrastructure practices. We share your vision. ARDURRA is an Envision Qualified Company with the Institute of Sustainable Infrastructure (ISI) and has more twenty-eight (28) local Envision Sustainability Professional on staff, as well as LEED AP Certified Professionals. We are committed to partnering with the City to deliver resilient, robust, and environmentally responsible projects
- **Local Permitting.** Smooth, expeditious and continuous progress during the permitting process is paramount for the City. Close coordination with regulatory agencies that have jurisdiction over a project is imperative. ARDURRA has extensive experience working with Local, State & Federal agencies. Our prominent level of expertise is measurable. ARDURRA has obtained more than 500 permits in the last 5 years for Miami-Dade County infrastructure projects, including more than 50 permits for the City’s projects
- **Flexibility & Responsiveness.** Our Team understands the importance of executing the City’s Capital Improvement Plan (CIP) to the community and City’s staff. We also acknowledge the importance of meeting set project deadlines and milestones ahead of schedule and under budget. We can firmly state that during our last eight (8) years working for the City, we have never missed a deadline stipulated in our contracts. ARDURRA has the depth of local and available resources to provide the City with the necessary flexibility & responsiveness to make the CIP a total success. Our local team will be available to attend the City’s needs 24/7.
- **Proven Leadership.** The City requires a project manager capable of managing a multidisciplinary team. ARDURRA proposed Project Manager, Ms. Silvia M. Beltre, PE, is a hands-on Florida Professional Engineer with more than 30 years of professional experience, in the requested work categories of this solicitation. Mrs. Beltre is a seasoned project manager who has delivered some of the most transformative transportation projects and initiatives locally, regionally and statewide.
- **City Historic Preservation.** We share and respect the City’s vision on preserving historic and natural resources which are long-standing traditions. Our team understands that the City is known for its history and shares that vision. We are devoted to developing context sensitive solutions to assigned tasks to ensure the persistence of the historic and natural environment.

We thank you for giving us the opportunity of being your Consultant and work as an extension of your qualified staff. Once again, we would like to respectfully ask for the opportunity to continue executing great projects for the City. We look forward to continuing serving the City as your trusted partner for years to come!



Sincerely – Ms. Silvia M. Beltre, PE

## 1.1 Title Page



### Transportation Planning and Engineering Consulting Services

**RFQ 2024-007**

**Firm Name:** Ardurra Group, Inc.

**Address:** 8600 NW 17<sup>TH</sup> St, Ste 200  
Doral, FL 33123

**Telephone:** 305-546.9990

**Contact Person:** Silvia M. Beltre, PE

**E-mail:** [SBeltre@Ardurra.com](mailto:SBeltre@Ardurra.com)

**Date of Submittal:** Thursday, March 14<sup>th</sup>, 2024





## 1.2 Table of Contents

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### 1.3 Proposer's Acknowledgement Form

## CITY OF CORAL GABLES, FL

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


### PROPOSER'S ACKNOWLEDGEMENT

<b>RFQ Title: Transportation Planning and Engineering Consulting Services</b>	<b>Electronic submittals must be received prior to 2:00 p.m., March 7, 2024, via INFOR; and will remain valid for 120 calendar days. Submittals received after the specified date and time will not be accepted.</b>
<b>RFQ No.: 2024-007</b>	Contact: Tanya D. Donigan Title: Assistant Chief Procurement Officer Telephone: 305-460-5115 Email: <a href="mailto:tdonigan@coralgables.com">tdonigan@coralgables.com</a> / <a href="mailto:contracts@coralgables.com">contracts@coralgables.com</a>
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.	

Proposer's Name: <b>Ardurra Group, Inc.</b>	FEIN or SS Number: <b>59-1782900</b>
Complete Mailing Address: <b>8600 NW 17th St. Ste 200, Doral, FL 33126</b>	Telephone No.: <b>786.228.5666</b>
Indicate type of organization below: Corporation: <input checked="" type="checkbox"/> Partnership: <input type="checkbox"/> Individual: <input type="checkbox"/> Other: <input type="checkbox"/>	Cellular No.: <b>305.546.9990</b>
Bid Bond / Security Bond (if applicable) _____%	Fax No.:  Email: <b>SBeltre@Ardurra.com</b>

**ATTENTION: THIS FORM ALONG WITH ALL REQUIRED RFQ FORMS MUST BE COMPLETED, SIGNED (PERFERABLY 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.

Silvia Beltre, PE  Project Manager 3.7.2024  
*Authorized Name and Signature* *Title* *Date*



## 1.4 Solicitation Submission Check List

# **SOLICITATION SUBMISSION CHECKLIST**

## **Request for Qualifications (RFQ) No. 2024-007**

COMPANY NAME: (Please Print): Ardurra Group, Inc.  
Phone: 786.228.5666 Email: SBeltre@Ardurra.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 # 2
- 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 # 3
- 3) Fill out, sign, and submit the Proposer's Acknowledgement Form. PAGE # 4
- 4) Fill out and submit the Solicitation Submission Check List. PAGE # 5
- 5) Fill out, sign, notarize (as applicable), and submit the Proposer's Affidavits and Schedules A through H. 8
- 6) Fill out, sign, and submit Attachment D - 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 # 18
- 7) Minimum and General Qualification Requirements: submit detailed verifiable information affirmatively documenting compliance with the Minimum and General Qualifications Requirements shown in Section 3. PAGE # 64
- 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 # 65
- 9) Fill out Employer E-Verify Affidavit PAGE # \_\_\_\_\_
- 10) Fill out Lobbyist Registration & Oral Registration Forms PAGE# 67

### **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 # 79 - 85
- 2) Provide a statement detailing Proposer's familiarity with permitting agencies and permitting procedures, especially in Miami-Dade County. PAGE # 85-86
- 3) Provide proof that the firm is licensed, registered and practicing in the State of Florida as an engineering firm, with a valid "Certificate of Authorization". PAGE # 87-88
- 4) Describe the Proposer's expertise and experience in working with other disciplines, including coordination with other planning and engineering professionals and sub-consultants. PAGE # 89-92



## 1.4 Solicitation Submission Check List

### (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 # 18-63

### 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 # 107-120

- 2) 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. PAGE # 120-121

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
- 3) 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 # 122-128
  - 4) 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 # 128
  - 5) Describe Proposer's ability to successfully deliver similar projects that have significant community and business involvement. PAGE # 130
  - 6) Describe the Proposer's ability to work with other consultants designated by the City. PAGE # 130

### 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 # 52-59 / 132
- 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



## 1.4 Solicitation Submission Check List

the City". P A G E # 1 3 5 \_\_\_\_\_

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.
- 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 #135
- a. 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 #135

### SUBMITTAL SECTION V: AGREEMENT COMMENTS

- 1) Please follow the instructions as outlined in Section 1.6 Agreement Execution. The acceptance of or any exceptions taken to the terms and conditions of the City's Agreement shall be considered a part of a Proposer's submittal and will be considered by the Evaluation Committee.

### **-- 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 (1) ORIGINAL RESPONSE electronically via INFOR.**
4. 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.**

## 1.5 Proposer's Affidavit and Schedules A through H

### PROPOSER'S AFFIDAVIT


**SOLICITATION:** RFQ 2024-007 Transportation Planning and Engineering Consulting Services

**SUBMITTED TO:** City of Coral Gables  
Procurement Division  
2800 SW 72 Avenue  
Miami, Florida 33155

The undersigned acknowledges and understands the information contained in response to this solicitation and the referenced Schedules A through H shall be relied upon by Owner awarding the contract and such information is warranted by the Proposer to be true and correct. The discovery of any omission or misstatements that materially affects the Proposer's ability to perform under the contract shall be cause for the City to reject the solicitation submittal, and if necessary, terminate the award and/or contract. I further certify that the undersigned name(s) and official signatures of those persons are authorized as (*Owner, Partner, Officer, Representative or Agent of the Proposer that has submitted the attached Response*). Schedules A through H are subject to Local, State and Federal laws (as applicable); both criminal and civil.

- SCHEDULE A – STATEMENT OF CERTIFICATION
- SCHEDULE B – NON-COLLUSION AND CONTINGENT FEE AFFIDAVIT
- SCHEDULE C – DRUG-FREE STATEMENT
- SCHEDULE D – PROPOSER'S QUALIFICATION STATEMENT
- SCHEDULE E – CODE OF ETHICS, CONFLICT OF INTEREST, AND CONE OF SILENCE
- SCHEDULE F – AMERICANS WITH DISABILITIES ACT (ADA)
- SCHEDULE G – PUBLIC ENTITY CRIMES
- SCHEDULE H – ACKNOWLEDGEMENT OF ADDENDA

This affidavit is to be furnished to the City of Coral Gables with its RFQ response. It is to be filled in, executed by the Proposer and notarized. If the response is made by a Corporation, then it should be executed by its Chief Officer. This document MUST be submitted with the response.

Walfrido Pevida, PE   
*Authorized Name and Signature*

Manager  
*Title*

3.7.2024  
*Date*



# 1.5 Proposer's Affidavit and Schedules A through H

STATE OF Florida

COUNTY OF Miami-Dade

On this 6th day of March, 2024, before me the undersigned Notary Public of the State of Florida, personally appeared Walfrido Pevida, PE  
(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.



Daviana Sanchez-Peraza  
Comm. #HH089631  
Expires: Feb. 7, 2025  
Bonded Thru Aaron Notary

NOTARY PUBLIC, STATE OF Florida

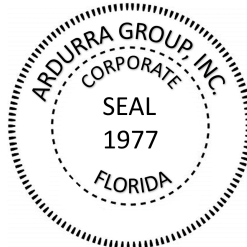
Daviana Sanchez-Peraza

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

Personally know to me or Produced Identification:

(Type of Identification Produced)

NOTARY PUBLIC  
SEAL OF OFFICE:



## 1.5 Proposer's Affidavit and Schedules A through H

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

Neither I, nor the firm, hereby represented has:

- a. employed or retained for a commission, percentage brokerage, contingent fee, or other consideration, any firm or person (other than a bona fide employee working solely for me or the Proposer) 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 firm or person in connection with carrying out the contract, or
- c. paid, or agreed to pay, to any firm, organization or person (other than a bona fide employee working solely for me or the Proposer) 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 Representative  
*(Owner, Partner, Officer, Representative or Agent)*

of the Proposer 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 Proposer's officers or employees are employed by the City, indicate name and relationship below.

Name: N/A Relationship: N/A

Name: N/A Relationship: N/A

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



## 1.5 Proposer's Affidavit and Schedules A through H

### **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

# 1.5 Proposer's Affidavit and Schedules A through H

## SCHEDULE "D" CITY OF CORAL GABLES – PROPOSER'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: Ardurra Group, Inc.

Address: 8600 NW 17th St. Ste 200, Doral, FL 33126  
Street City State Zip Code

Telephone No: (786) 228-5666 Fax No: ( ) Email: WPevida@Ardurra.com

How many years has your company been in business under its present name? 44 Years

If Proposer is operating under Fictitious Name, submit evidence of compliance with Florida Fictitious Name Statute:

\_\_\_\_\_

Under what former names has your company operated? : \_\_\_\_\_

At what address was that company located? \_\_\_\_\_

Is your Company Certified? Yes  No \_\_\_\_\_ If Yes, **ATTACH COPY** of Certification.

Is your Company Licensed? Yes  No \_\_\_\_\_ If Yes, **ATTACH COPY** of License

Has your company or its senior officers ever declared bankruptcy?

Yes \_\_\_\_\_ No  If yes, explain: \_\_\_\_\_

\_\_\_\_\_

### LEGAL INFORMATION:

Please identify each incident **within the last five (5) years** where 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 (**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  If Yes, explain \_\_\_\_\_

\_\_\_\_\_



1.5 Proposer's Affidavit and Schedules A through H

# *State of Florida*

## *Department of State*

I certify from the records of this office that ARDURRA GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on December 19, 1977.


The document number of this corporation is 555540.

I further certify that said corporation has paid all fees due this office through December 31, 2024, that its most recent annual report/uniform business report was filed on January 22, 2024, 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 Twenty-second day of January,  
2024*



  
Secretary of State

Tracking Number: 4016529779CC

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

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

# 1.5 Proposer's Affidavit and Schedules A through H

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION



Department of Business & Professional Regulation

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## ONLINE SERVICES

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[AB&T Delinquent Invoice & Activity List Search](#)

## LICENSEE DETAILS

8:37:17 AM 2/27/2024

### Licensee Information

Name:	<b>ARDURRA GROUP, INC. (Primary Name)</b>
Main Address:	<b>4921 MEMORIAL HIGHWAY SUITE 300 TAMPA Florida 33634</b>
County:	<b>HILLSBOROUGH</b>

### License Information

License Type:	<b>Engineering Business Registry</b>
Rank:	<b>Registry</b>
License Number:	<b>2610</b>
Status:	<b>Current</b>
Licensure Date:	<b>01/20/1978</b>
Expires:	

### Special Qualifications

### Qualification Effective

--

### Alternate Names

--

[View Related License Information](#)

[View License Complaint](#)

2601 Blair Stone Road, Tallahassee FL 32399 :: Email: [Customer Contact Center](#) :: Customer Contact Center: 850.487.1395

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## 1.5 Proposer's Affidavit and Schedules A through H

### **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.



## 1.5 Proposer's Affidavit and Schedules A through H

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. **[Must 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.**

## 1.5 Proposer's Affidavit and Schedules A through H

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

1. The undersigned agrees, if this RFQ is accepted, to enter in a Contract with the CITY to perform and furnish all work as specified or indicated in the RFQ, any associated addendum and Contract Documents within the contract time indicated in the RFQ 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.

Addendum No. 1 Date 2.16.2024

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

Addendum No. 2 Date 2.22.2024

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

Addendum No. 3 Date 3.6.2024

Addendum No. \_\_\_\_\_ Date \_\_\_\_\_

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

## 1.6 Standard Form 330, Architect-Engineer Qualifications





# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION <i>(City and State)</i> <b>Transportation Planning and Engineering Consulting Services – Coral Gables, FL</b>		
2. PUBLIC NOTICE DATE <b>February 2, 2024</b>	3. SOLICITATION OR PROJECT NUMBER <b>Project # 2024-007</b>	

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE <b>Silvia Beltre, PE – Project Manager</b>		
5. NAME OF FIRM <b>Ardurra Group, Inc.</b>		
6. TELEPHONE NUMBER <b>786.228.5666</b>	7. FAX NUMBER <b>786.558.2030</b>	8. E-MAIL ADDRESS <b>SBeltre@Ardurra.com</b>

### C. PROPOSED TEAM

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

<i>(Check)</i>				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
PRIME	J-V PARTNER	SUBCON-TRACTOR				
a	✓			<b>Ardurra Group, Inc.</b>  <input type="checkbox"/> CHECK IF BRANCH OFFICE	<b>8600 NW 17<sup>th</sup> St, Ste 200</b> <b>Doral, FL 33126</b>	<b>Project Management / Traffic Engineering &amp; Transportation Planning / Roadway/Signing and Pavement Marking / Drainage / Lighting / Signalization / ITS / Permitting / Contract Administration / Construction Engineering Inspection / Structures Design / Landscape / Environment / Outreach / Utilities</b>
b			✓	<b>Manuel G. Vera &amp; Associate, Inc.</b>  <input type="checkbox"/> CHECK IF BRANCH OFFICE	<b>13960 SW 47th Street</b> <b>Miami, FL 33175</b>	<b>Survey / Right of Way</b>
c			✓	<b>Universal Engineering Sciences, Inc.</b>  <input type="checkbox"/> CHECK IF BRANCH OFFICE	<b>8050 NW 77th Court</b> <b>Medley, FL 33166</b>	<b>Geotechnical / Material Inspection</b>
d			✓	<b>Choice Engineering Consultants, Inc.</b>  <input type="checkbox"/> CHECK IF BRANCH OFFICE	<b>12855 SW 132nd St, Suite 200</b> <b>Miami, FL 33186</b>	<b>Traffic Analysis / Data Collection</b>

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

*(Attached)*

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (REV. 7/2021)



**PRINCIPAL IN-CHARGE<sup>1</sup>**

Franklin A Torrealba, PE, ENV SP

**PROJECT MANAGER<sup>1</sup>**

Silvia Beltre, PE

**TRAFFIC ENGINEERING & TRANSPORTATION PLANNING<sup>1</sup>**

Ytve Guerrero, PE  
Adam Burnett, PE, PTOE, IMSA II  
Brenna Boyle, EI  
Christy Lofye, PE, PTOE, RSPI  
Raghu Veturi, PE, PTOE

**CONTRACT ADMINISTRATION<sup>1</sup>**

Carolina Rincon  
Jenny Toruño, MS, PE

**LANDSCAPE DESIGN<sup>1</sup>**

Scott Smith, RLA  
Michael Ross

**UTILITIES<sup>1</sup>**

Paola Davalos, PE, ENV SP

**PD&E/CORRIDOR PLANNING<sup>1</sup>**

Silvia Beltre, PE  
Amanda Ashby, AICP  
Xavier Pagán, MS  
Carolyn Malphurs, MS  
Marjorie Kirby  
Kevin A. Gidusko, MA, RPA  
Matt Marino, MA, RPA

**ROADWAY/SIGNING AND PAVEMENT MARKING<sup>1</sup>**

Patricia Torres, PE  
Melissa Monsalve, EI

**LIGHTING/SIGNALIZATION/ITS<sup>1</sup>**

Adam Burnett, PE, PTOE, IMSA II  
Angel Reanos

**STRUCTURAL DESIGN<sup>1</sup>**

Diego Jimenez, PE  
Jonatan Fernandez, PE  
Eloy Rodriguez, PE  
Jose Beruff, PE

**CONSTRUCTION ENGINEERING INSPECTION (CEI)<sup>1</sup>**

Ricardo Escobar, PE, CGC  
Ivan Blanco  
Albert Hernandez

**GEOTECHNICAL<sup>3</sup>**

Carlos Mercado, MS, PE  
Alberto Mercado, PE  
David S. Lopez  
Johana Conde

**DRAINAGE<sup>1</sup>**

Kennedy Simmonds, PE  
Cesar Pena, PE

**PERMITTING<sup>1</sup>**

Nicholas Fernandez, PE  
Carolyn Malphurs, MS

**MATERIAL INSPECTION<sup>3</sup>**

Frank Martinez  
Edwin Oviedo  
Dailymar Pacheco

**SURVEYING/RIGHT OF WAY<sup>2</sup>**

Ricardo Escobar, PE, CGC  
Manuel Vera Jr., PSM  
Mark Sowers, PSM

**OUTREACH<sup>1</sup>**

Angela Bernace  
Cristina Jimenez

**TRAFFIC DATA COLLECTION<sup>4</sup>**

Alejandro Ortega, EI

**TRAFFIC ANALYSIS<sup>4</sup>**

Eugenio Lopez, PE, PTOE  
Alexander Socarras, PE, PTOE, RSPI  
Jessica Garcia, EI, RSPI  
Andy Gutierrez, EI

**OUR TEAM**

1. Ardurra Group, Inc. / 300 Engineering Group, LLC
2. Manuel G. Vera & Associates, Inc.
3. Universal Engineering Sciences, Inc.
4. Choice Engineering Consultants, Inc.

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Franklin Torrealba, PE, ENV SP</b>	13. ROLE IN THIS CONTRACT <b>Principal in Charge</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>37 years</b>	b. WITH CURRENT FIRM <b>11 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>MBA Bachelor of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer Envision Sustainability Professional (ENV SP)</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>For over 20 years Mr. Torrealba has functioned as Project Manager for a multitude of projects in Miami Dade County, from concept to completion, including sanitary sewer pump stations, wastewater collection and transmission, water supply, stormwater infrastructure and environmental engineering assessments.</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State) <b>City of Coral Gables, Miscellaneous City-wide Stormwater System Improvements (Design and Permitting Services) Coral Gables, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>On-Going</b>	CONSTRUCTION (If Applicable) <b>On-Going</b>
a	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Mr. Torrealba was Principal in Charge</b> for the design to upgrade drainage systems within the City. 300 Engineering is providing engineer of record and permitting services for miscellaneous City-wide stormwater system improvements, including: exfiltration trenches, drainage wells, pipeline system and/or outfalls. Under this contract, 300 Engineering has delivered the required grading & drainage plans and construction documents for multiple stormwater projects, where our team has evaluated the existing condition of drainage infrastructure and designed the most cost-effective solution, tailored to each case's needs. Mr. Torrealba served as principal in charge and provided permitting expertise and technical guidance for this project.		
	(1) TITLE AND LOCATION (City and State) <b>Traffic Calming along Aragon Ave and Giralda Ave - City of Coral Gables, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2020</b>	CONSTRUCTION (If Applicable) <b>N/A</b>
b	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Mr. Torrealba served as the Principal-In-Charge</b> for the design of roadway improvements for two (2) residential roads within the City of Coral Gables. These roads, Aragon and Giralda Ave., run East/West from Segovia St. to S. Le Jeune Rd. The scope of the project included designing a Traffic Calming plan for this area, including but not limited to, installation of a raised intersection (speed table), installation of brick paver entrances from major roads indicating to drivers the area is residential, and the installation of a curbed island. In addition, 300 Engineering was tasked with improving the stormwater infrastructure conditions within this project area through the installation/relocation of stormwater structures, and regarding the roadway.		
	(1) TITLE AND LOCATION (City and State) <b>\$215M Pump Station Improvement Program (PSIP) - Program, Design and Construction Management (Miami-Dade County, FL)</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2020</b>	CONSTRUCTION (If Applicable) <b>2022</b>
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Mr. Torrealba was Program Manager</b> for the upgrade of the Wastewater Collection and Transmission System (WCTS) including pump stations and force mains pursuant to which each pump station must be certified as capable of meeting a nominal average pump operating time (NAPOT) of less than or equal to 10 hours per day. The program aims to bring into compliance 118 sewage pump stations that do not comply with the NAPOT and Peak Flow Criterion. There are a total of 153 projects including 118 pump stations and 35 force mains. This program is comprised of four main phases: Planning & Engineering; Design Management of 8 consultants; Construction Management of multiple pump stations; and Infiltration and inflow management including 4 contractors		
	(1) TITLE AND LOCATION (City and State) <b>USEPA Consent Decree Miami-Dade County (Miami-Dade County, FL)</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>On-Going</b>	CONSTRUCTION (If Applicable) <b>On-Going</b>
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Task Manager for the Wastewater Collection and Transmission System (WCTS) Task.</b> Mr. Torrealba assisted the Department providing Program, Design, and Construction Management Services related to the Wastewater System Priority Projects, including WASH's third Consent Decree with the United States Environmental Protection Agency (USEPA). Mr. Torrealba acted as the Task Manager for a total of fifty-two (52) Force Mains and forty-one (41) Pump Station projects, responsible for the management of engineering tasks (including hydraulic modeling), design and construction of these projects.		
	(1) TITLE AND LOCATION (City and State) <b>City of Coral Gables Annual Report for Individual NPDES Permits for Municipal Separate Storm Sewer Systems Coral Gables, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>On-Going</b>	CONSTRUCTION (If Applicable) <b>N/A</b>
e	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>As Principal-In-Charge,</b> Mr. Torrealba assisted the City of Coral Gables in completing and submitting Annual NPDES Reports for the 2018 and 2019 reporting periods in order for the City to remain in compliance with Miami-Dade County Department of Environmental Resources Management (DERM). Services included reaching out to Florida Department of Environmental Protection (FDEP), DERM, and different municipal departments for data collection and completion of report. The 300 Engineering team performed quality checks to ensure the information received was accurate and correct. 300 Engineering has assisted the City with their annual NPDES Reports since 2017. All reports were performed within the established budget and the City was able to submit the NPDES Reports ahead of schedule.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Silvia Beltre, PE</b>	13. ROLE IN THIS CONTRACT <b>Project Manager</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>30 years</b>	b. WITH CURRENT FIRM <b>2 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b> <b>Bachelor of Science in Architectural Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #51295</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>FHWA Audit, Training, Florida, 2017   FHWA Legal Sufficiency, Training, Florida, 2017   Training, Public Involvement &amp; Socio-cultural Effects Evaluation, Florida, 2012   Involvement On-Line Training, selected by District Five for program testing, 2012   PD&amp;E Process Overview Training, Coral Gables, Florida, 2009</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Project Development and Environment (PD&amp;E) Study for SR 836 SW Extension from NW 137 Ave to SW 136 Street   Miami, FL</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Project Manager</b> for complex transportation study. This study proposes a new transportation corridor extending SR 836 in the southwest region of Miami-Dade County. The project is envisioned as a 4-lane limited access, tolled facility that will provide better mobility, connectivity and enhanced accessibility. Several alternatives in different corridors were considered and evaluated through the Alternative Corridor Evaluation (ACE) process. The project is a complex mosaic of natural, cultural and community features. A comprehensive Public Involvement Plan (PIP) was carried out to involve concerned stakeholders. The PIP included the following techniques: 1) Environmental Forum (agencies and environmental groups), 2) Citizens Advisory Committee, 3) Cultural Resource Committee, 4) Scoping meeting, 5) Corridor Workshop, 6) bi-lingual (Spanish) collaterals and 7) website updates.		
b	<b>SR-9/I-95 from South of SR-870/Commercial Blvd to North of Cypress Creek Road   Broward County, FL</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Project Manager</b> for this study to increase capacity on I-95, the interchanges at Commercial Boulevard and Cypress Creek Road, and the adjacent intersections to both interchanges. The project was evaluated to improve safety and accessibility within the study area, including access to I-95 and the adjacent arterial intersections. Secondary considerations for the purpose and need of this project include system linkage, modal interrelationships, transportation demand, social demands and economic development, evacuation, coordination with adjacent projects and building consensus via Public Involvement. The improvements proposed as part of this project complement the I-95 Express Lanes improvements with the addition of auxiliary lanes in both the northbound and southbound directions. Key components of the study included coordination with the Park and Ride facility to facilitate ingress/egress and incorporate transit needs		
c	<b>FDOT State Environmental Management Office (SEMO) Consulting, Task Work Order (TWO) – National Environmental Policy Act (NEPA)</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Project Manager</b> for the now Office of Environmental Management (OEM) Support Contract. Led the development of FDOT's application to the Surface Transportation Project Delivery Program (NEPA Assignment). This effort included interviewing the states of California, Texas and Ohio to assess best practices and lessons learned from their efforts, conducting a statewide readiness assessment to identify FDOT program needs in advance, coordination with Central Office, FDOT Districts, FHWA and outreach to regulatory agencies, Native American Tribes and the general public. Task activities included development of a training program to support statewide implementation.		
d	<b>FDOT SEMO Consulting   TWO – Statewide Acceleration Transformation (SWAT)</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Project Manager</b> for the now Office of Environmental Management (OEM) Support Contract. Led the development, implementation and statewide training to expand the SWAT process. SWAT is a holistic approach to project scoping looking for efficiencies and opportunities to overlap project phases to accelerate overall project delivery from planning to construction. Specifically, SWAT sought to better link Planning and PD&E and PD&E and Design. The linkages were meant to streamline the processes and the required schedules. The Workbook developed for the statewide training outlines a process for experienced, cross functional, team members to thoroughly consider a project's complexities, scope, and priority to better inform Work Program Development, project schedule, class of action and funding type decisions (Federal vs. Non-federal funding); prior to project start date. Collaterals included a SWAT workbook along with various training modules to conduct in person training at every FDOT District in the state.		
e	<b>PD&amp;E Study DW Consultant Contract – TWO - Virtual Public Engagement and Project Website Support</b>	<b>2020</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Project Manager</b> for this PD&E Study Districtwide Consultant Contract. Led assignment to investigate best practices to conduct hybrid public engagement as a result of the COVID pandemic. Efforts including interviewing six states and identifying various innovative approaches to engagement during the pandemic and any lessons learned from their efforts. The results of research efforts culminated in a report recommending strategies and considerations for various approaches.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Ytve Guerrero, PE</b>	13. ROLE IN THIS CONTRACT <b>Traffic Engineering + Transportation Planning Lead</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>24 years</b>	b. WITH CURRENT FIRM <b>2 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering Master of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida &amp; Georgia Professional Engineer</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>FHWA Audit, Training, Florida, 2017   FHWA Legal Sufficiency, Training, Florida, 2017   Training, Public Involvement &amp; Socio-cultural Effects Evaluation, Florida, 2012   Involvement On-Line Training, selected by District Five for program testing, 2012   PD&amp;E Process Overview Training, Coral Gables, Florida, 2009</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>I-75 at SR 951 Interchange Design Build Project (Collier County), Interchange Modification Report (IMR) Re-evaluation FDOT D1</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Lead Traffic Engineer/Project Manager</b> responsible for the overall development of Interchange Modification Report (IMR) Re-evaluation triggered by the interchange layout changes considered in the Design-Build Concept (ATC). Tasks ranged from preparation the scope of work and the hour estimate, to preparation of the Methodology Letter of Understanding (MLOU) and IMR Re-evaluation Report. Tasks related to traffic engineering encompassed review of Travel Demand Forecasting results, and development of Traffic Operational Analysis for AM and PM peak hours along the limited access facility using the Highway Capacity Software (HCS). x Check if project performed with current firm		
b	<b>Transportation Program Support Services, City of Miami</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Manager</b> responsible for managing and overseeing the development of several task work orders that consider transportation improvements and traffic analysis for different areas within the jurisdiction of the City of Miami. Some of the assignments required review and develop comments on the Traffic Impact Study (TIS) submitted to the City by the different developers seeking permits approvals as well as traffic analysis such as the one conducted for Brickell Bay Drive One-Way Conversion. This traffic analysis included the evaluation of existing and future (once the One-Way Conversion was implemented) traffic conditions.		
c	<b>General Planning Consultant Services, Miami-Dade County MPO</b>	<b>2015</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Manager</b> responsible for overseeing a variety of task work orders that consider complex traffic engineering analysis such as the SW 8th Street Corridor Grade Separation Study. The SW 8th Street Corridor Grade Separation Study entailed evaluation of existing and future traffic operations conditions (arterial and intersection level of service analysis) using Synchro. Evaluation of existing conditions included traffic data collection (72-Hour Regular Counts, 72-Hour Classification Counts and Intersections Turning Movements Counts), identification and development of balanced peak hour volumes and assessment of the current level of service using Synchro.		
d	<b>Districtwide Management Systems Short Range Project Development Consultant, FDOT District 6, Districtwide</b>	<b>2007</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Engineer/Assistant Project Manager</b> to cover a range of miscellaneous tasks such as developing ESALs calculations, performing intersection analyses and assisting the Department with the assessment of the current Traffic Monitoring Program. Assisted the Department with the Enhanced Pavement Management System which includes reviewing the roadway segments that have been selected to undergo pavement rehabilitation in order to identify additional deficiencies that should be resolved in conjunction with pavement rehabilitation. The objective of this task is to develop more accurate cost estimates that will account for repair/construction of additional roadway features that need to be addressed in the resurfacing, restoration and rehabilitation (RRR) projects.		
e	<b>SR 836/Dolphin Expressway Extension (from SW 107th Avenue to SW 137th Avenue), MDX</b>	<b>2003</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Engineer</b> who developed traffic simulation files for the various alternatives for the future SR 836 alignment west of NW 87th Avenue. Simulations also included different toll plaza layouts that implemented the use of express Sunpass lanes and dedicated Sunpass lanes. Prepared technical memoranda documenting existing and future traffic conditions along the corridor-based on the results obtained from the simulations of existing and future conditions. Prepared traffic data for the environmental analysis used in the quality and noise studies.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Adam Burnett, PE, PTOE, IMSA II</b>	13. ROLE IN THIS CONTRACT <b>Traffic Engineering + Transportation Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>12 years</b>	b. WITH CURRENT FIRM <b>1.5 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #82314 Professional Traffic Operations Engineer #5333 State of Florida / Advanced Maintenance of Traffic #65087 State of Florida / IMSA Traffic Signal Technician Level I and II #AA_139126 and BE_139126</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>SR 551 (Goldenrod Road) Pedestrian Crossing Study</b> <b>FDOT District Five, FL</b>	<b>ONGOING</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Lead Study Engineer</b> responsible for PHB concept development and cost analysis. This study included traffic, pedestrian crossing volume, and LYNX ridership data collection and analysis, a pedestrian gap study, preparation of a condition diagram, crash summaries, collision diagrams, and evaluation of warrants for a Pedestrian Hybrid Beacon (PHB). Benefit/cost and net present value (NPV) analysis were conducted and recommended improvement concepts were prepared for both interim maintenance and the ultimate improvement. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.		
b	<b>Mitchell Hammock Road Traffic Operational Analysis</b> <b>City of Oviedo, FL</b>	<b>2022</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Lead Study Engineer.</b> A traffic operational analysis was conducted from the intersection of Westwood Square to approximately 1,600 feet east of SR 426 due to a concern for traffic operations, mobility, and safety, related to commercial development access in this location. Responsibilities included traffic data collection, crash data analysis, a qualitative analysis, access management review, collision summaries at three key intersections, preliminary signal warrants, and the development of improvement alternatives and recommendations. Recommended improvements and concept plans, including cost estimates, were prepared for two options.		
c	<b>Williamsburg Area Transportation Study</b> <b>Orange County, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Engineer</b> responsible for preparation of the Safety Analysis Technical Memorandum for this Orange County study. This project's goal was to identify specific traffic issues impacting residents of the Williamsburg Area, such as neighborhood traffic calming and cut-through traffic, as well as to provide recommendations to improve the overall safety of the community. Recommendations included mini-roundabouts, protected bike lanes, median landscaping, speed limit reductions, speed feedback signs, and speed cushions that accommodate emergency vehicles.		
d	<b>SR 46 at Richmond Avenue</b> <b>FDOT District Five, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Lead Study Engineer.</b> This project included traffic data collection, a qualitative analysis, a crash summary and crash diagram, a review of adjacent parcel development plans and permits, an evaluation of drainage and environmental permitting needs, and the development of alternatives and recommendations. Concept plans were prepared for interim maintenance improvements, as well as long-term improvements for the addition of a left turn lane, corner radius reduction, and the addition of guardrail. Benefit/cost and NPV analysis were conducted to financially justify the proposed improvements. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.		
e	<b>SR 60 Access Management Studies</b> <b>FDOT District Seven, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Engineer</b> responsible for traffic operations analysis. Access management studies were conducted for proposed median modifications along SR 60 at three locations. Analysis was conducted to evaluate conversion of the Margaret Street full median opening to a right-in/right-out connection, permanently convert the full median opening at Moon Avenue to a bi-directional median opening and close the Edwards Street opening in the concrete separator. Synchro analysis was conducted for design year AM and PM peak hours.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Brenna Boylan, EI</b>	13. ROLE IN THIS CONTRACT <b>Traffic Engineering + Transportation Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>1 year</b>	b. WITH CURRENT FIRM <b>1 year</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Engineering Intern #1100027144</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Districtwide Traffic Safety Studies &amp; Highway Design</b> <b>FDOT District Five, FL</b>	<b>ONGOING</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Engineer Intern</b> responsible for conducting historical crash data analysis and documentation, as well as using OpenRoads Designer and ArcMap to create figures and diagrams. This continuing contract involves conducting studies and/or preparing design plans. Task Work Orders (TWOs) may include studies and/or design of roadways, minor structures, intersections, traffic control plans, geotechnical activities, surveys, drainage, signing and pavement markings, signalization, lighting, utility relocation and/or adjustments, sidewalk and/or bicycle path plans and cost estimates, environmental permits, environmental mitigation plans, quantity computation booklets, presentations to the County Community Traffic Safety Committees, and additional incidental items.		
b	<b>Orange County Vision Zero Action Plan</b> <b>Orange County, FL</b>	<b>ONGOING</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Engineer Intern</b> for review of State and Federal "best practice" guidance documents and adopted Vision Zero Action Plans to identify countermeasures and strategies with the potential for transferability into Orange County's Action Plan. Meetings were held with leaders from eight key County departments, and County plans, policies, and standard operating procedures (SOPs) were reviewed to identify barriers to achieving zero and to provide recommendations to update operational processes.		
c	<b>SR 60 Access Management Studies</b> <b>FDOT District Seven, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Engineer Intern</b> responsible for crash analysis and traffic operations analysis. Access management studies were conducted for proposed median modifications along SR 60 at three locations. Analysis was conducted to evaluate conversion of the Margaret Street full median opening to a right-in/right-out connection, permanently convert the full median opening at Moon Avenue to a bi-directional median opening, and close the Edwards Street opening in the concrete separator. Synchro analysis was conducted for design year AM and PM peak hours. The study recommendations will be incorporated into the SR 60 from E Buckingham Place to E of Lithia Pinecrest Road RRR project.		
d	<b>SR 46 at Richmond Avenue</b> <b>FDOT District Five, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Engineer Intern</b> for this project that included traffic data collection, a qualitative analysis, a crash summary and crash diagram, a review of adjacent parcel development plans and permits, an evaluation of drainage and environmental permitting needs, and the development of alternatives and recommendations. Concept plans were prepared for interim maintenance improvements, as well as long-term improvements for the addition of a left turn lane, corner radius reduction, and the addition of guardrail. Benefit/cost and NPV analysis were conducted to financially justify the proposed improvements. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.		
e	<b>SR 60 Access Management Studies</b> <b>FDOT District Seven, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Engineer Intern</b> responsible for crash analysis and traffic operations analysis. Access management studies were conducted for proposed median modifications along SR 60 at three locations. Analysis was conducted to evaluate conversion of the Margaret Street full median opening to a right-in/right-out connection, permanently convert the full median opening at Moon Avenue to a bi-directional median opening and close the Edwards Street opening in the concrete separator. Synchro analysis was conducted for design year AM and PM peak hours. The study recommendations will be incorporated into the SR 60 from E Buckingham Place to E of Lithia Pinecrest Road RRR project.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Christy Lofye, PE, PTOE, RSP1</b>		13. ROLE IN THIS CONTRACT <b>Traffic Engineering + Transportation Planning</b>		14. YEARS EXPERIENCE	
				a. TOTAL <b>27 years</b>	b. WITH CURRENT FIRM <b>4 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>					
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b>			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #48129</b> <b>State of Florida / Road Safety Professional #490</b> <b>Professional Traffic Operations Engineer #5333</b>		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>2018 Florida Greenbook technical advisor</b>					

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>SR 44 at Vivienne Drive</b> <b>FDOT District Five, FL</b>	<b>2022</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE x Check if project performed with current firm <b>Project Manager</b> for this project to conduct a signal warrant analysis and access management review. This project included a qualitative analysis, crash summary and crash diagram, signal warrant forms, Stage 1 and 2 ICE analysis, benefit-cost, net present value analysis, and report preparation. Additionally, permits and future development plans were reviewed to estimate future turning movement volumes for operational analysis and recommended future traffic control. Concept plans were prepared for interim maintenance improvements, as well as traffic signal and signalized RCUT alternatives. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.		
b	<b>Oak Ridge Road Pedestrian/Bicycle Safety Study</b> <b>Orange County, FL</b>	<b>2017</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Orange County Project Manager</b> for this 3.0-mile corridor safety study from Millenia Boulevard to Orange Blossom Trail (US 441). The study included traffic data collection, crash data analysis, access management, traffic modeling and development of design traffic, traffic operations analysis, multi-modal LOS analysis, and the development of pedestrian/bicycle safety countermeasures and strategies. Responsibilities included consultant management and oversight, review of project reports, and coordination with project stakeholders, elected officials, and public involvement.		
c	<b>Williamsburg Area Transportation Study</b> <b>Orange County, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE x Check if project performed with current firm <b>Project Manager</b> responsible for preparation of the Safety Analysis Technical Memorandum. This project's goal was to identify specific traffic issues impacting residents of the Williamsburg Area, such as neighborhood traffic calming and cut-through traffic, as well as to provide recommendations to improve the overall safety of the community. The study area included neighborhoods east and west of Orangewood Boulevard between the Beachline Expressway (SR 528) and the Central Florida Parkway, and neighborhoods south of Central Florida Parkway and Orangewood Boulevard.		
d	<b>Orange County Top 100 Intersections Project</b> <b>Orange County, FL</b>	<b>2016</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm <b>Orange County Project Manager</b> for this study to determine the County's Top 100 intersections by crash rate. The project included network screening using Signal four Analytics to identify the top intersections for pedestrian and total crash frequency, collection of intersection approach and turning movement counts, calculation of crash rates, and ranking and prioritization of intersections with the highest crash rates. The intersections were further stratified by intersection control type to identify countermeasures that could be applied systemically. Field intersection inventories were conducted, prompt lists completed, and intersection characteristics identified, including upgrades needed for ADA compliance, resulting in immediate action items and/or recommendations for more detailed study.		
e	<b>SR 60 Access Management Studies</b> <b>FDOT District Seven, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE x Check if project performed with current firm <b>Project Manager</b> for access management studies performed to evaluate the impact of proposed median modifications along SR 60 at three locations. Analysis was conducted to evaluate the conversion of the Margaret Street full median opening to a right-in/right-out connection, permanently convert the full median opening at Moon Avenue to a bi-directional median opening and close the Edwards Street opening in the concrete separator. Synchro analysis was conducted for design year AM and PM peak hours.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Raghu Veturi, PE, PTOE</b>	13. ROLE IN THIS CONTRACT <b>Traffic Engineering &amp; Transportation Planning</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>20 years</b>	b. WITH CURRENT FIRM <b>10 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Houston, TX</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>MS / Civil Engineering BS / Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida &amp; Texas / Professional Engineer Professional Traffic Operations Engineer / Texas</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Mr. Veturi has over 15 years of progressive experience in handling traffic engineering and transportation projects and has in-depth knowledge of the practical concepts and applications of traffic engineering and transportation planning. His expertise includes analyzing and designing traffic control systems, intersections, street lighting evaluation, and ITS.</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>METRO Bus Shelter Program - Evaluation and Design; Houston, Texas</b>	<b>2020</b>	<b>N/A</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Evaluated 150 locations throughout the City of Houston to determine the feasibility of installing a bus shelter. Once the locations are determined and finalized, the final locations will be designed and permitted according to METRO and the City of Houston's standards and guidelines. <small>x Check if project performed with current firm</small>	
b	<b>Safety Study at the Intersection of Brushwood Lane &amp; Palm Coast Parkway; Palm Coast, Florida</b>	<b>2007</b>	<b>2008</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The City requested a traffic signal be installed at this location which is a one-way pair with wide median opening. Mr. Veturi evaluated this intersection by conducting extensive field studies, reviewing crash history & conducting a single warrant analysis. Based on the above evaluation & review, while a signal was not recommended at this intersection, other operational improvements were recommended which addresses "Cut Through" traffic concerns & safety issues. <small>Check if project performed with current firm</small>	
c	<b>Pedestrian Mid-Block Crossing Study on US 17/92; Sanford, Florida</b>	<b>2012</b>	<b>2013</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prepared a pedestrian mid-block crossing study at four locations along US 17/92 corridor in the City of Sanford. Alternatives such as crosswalks, RRFB's and Pedestrian Hybrid Beacons were evaluated. This involved extensive coordination with the City and FDOT staff. As a result of the field review and analysis, a RRFB's were recommended at three locations out of the four locations studied. <small>Check if project performed with current firm</small>	
d	<b>Intersection Improvements @ Waters Avenue &amp; Sheldon Road Hillsborough County, Florida</b>	<b>2012</b>	<b>2013</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Prepared signing & pavement marking plans for this intersection improvements project. This project involved adding additional turn lanes to improve traffic operations & to accommodate new developments along Waters Avenue corridor. The existing pavement was milled & resurfaced and as a result new signing and pavement markings plan were created based upon FDOT standards and latest MUTCD criteria. <small>Check if project performed with current firm</small>	
e	<b>US 441 (Orange Blossom Trail) from Oakridge Road to Wakulla Way, Fiber Optic Interconnect Plans; Orange County, Florida</b>	<b>2011</b>	<b>2012</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Served as Engineer of Record (EOR)</b> for this project. The project involved design & construction of 2,500 linear feet (LF) of fiber optic conduit and cable to connect the signal at Orange Blossom Trail & Oakridge Road & the new signal at Orange Blossom Trail & Wakulla Way. Mr. Veturi was responsible for: signalization plans, preparing ITS plan sheets, fiber optic splicing drawings and details & identifying and resolving conflicts with the existing utility companies. <small>Check if project performed with current firm</small>	

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Scott Smith, RLA</b>	13. ROLE IN THIS CONTRACT <b>Landscape Architect</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>18 years</b>	b. WITH CURRENT FIRM <b>2 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Ocala, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>BLA, Bachelor of Landscape Architecture</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Registered Landscape Architect (RLA):</b> <b>Arizona (79917)</b> <b>Florida (LA6667187)</b> <b>South Carolina (LA 1699)</b> <b>Tennessee (1383)</b> <b>Texas (3853)</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Lee County Department of Transportation</b> <b>Lee County, FL</b>	<b>2002</b>	<b>2017</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Landscape Architect for the beautification of nearly 50 miles of County maintained roadways. Portions of these projects are near airports, and therefore included enhanced requirements so as not to adversely impact flightpaths and other airport operations. Projects near local airports include Treeline Avenue (3.75 miles) and U.S. 41 (3.5 miles).		
b	<b>Gulf Coast Landings Cooper Development</b> <b>Fort Myers, FL</b>	<b>2006</b>	<b>2017</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Code Landscape, Construction Administration for landscape construction for 1,400,000+ square foot commercial development near Southwest Florida International Airport and therefore included enhanced requirements so as not to adversely impact flightpaths and other airport functions.		
c	<b>Southwest Florida International Airport</b> <b>Lee County, FL</b>	<b>2012</b>	<b>2017</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assisted regulatory planner with the design of the Southwest Florida International Airport conceptual land use map. The 2,200-acre concept plan illustrated potential land uses adjacent to the airport, within airport property. The concept included opportunities for commercial and industrial development related to airport operations.		
d	<b>Atrium at Liberty Park</b> <b>Cape Coral, FL</b>	<b>2018</b>	<b>2022</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Responsible for professional landscape architecture services associated with the design and construction of the Atrium at Liberty Park Assisted Living Facility project (108 assisted living facility units and 22 memory care units on 4.5 acres). The landscape architecture scope of the project included the design of all planting, irrigation, hardscape, and lighting for the entire project, including three courtyards, one of which was designed specifically for use by memory care patients. Specific elements were designed into the courtyard to ensure a safe, secure, and pleasant outdoor space for residents faced with memory loss health concerns.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Paola Davalos, PE</b>	13. ROLE IN THIS CONTRACT <b>Utilities Engineer</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>11 years</b>	b. WITH CURRENT FIRM <b>11 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS Environmental Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer, FL (92515) NASSCO PACP, LACP, MACP</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>ASCE Florida Section, Miami-Dade Chapter Engineer of the Year Award 2022</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Stormwater Infrastructure Verification &amp; GIS Updates City of Coral Gables, Florida</b>	<b>2022</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Davalos is responsible for project oversight which includes data collection, field verification, GIS digitization of Assets, QA/QC, and the creation and update of a GIS Web-viewer. Data collection efforts include collecting, compiling and analyzing pertinent drainage infrastructure data. Field verification activities include locating drainage assets using a GPS Trimble Unit to geolocate the observed infrastructure (manholes, catch basins, outfalls, infiltration trenches, drainage wells, among others.) and capturing relevant data. Horizontal coordinates and elevations of assets, including rim, invert and bottom of structures are obtained, if accessible. The project also includes a visual asset condition assessment, including photographic record of the assets. The GIS digitization phase includes the post-processing of the field verified infrastructure data and the update of the City's drainage geodatabase including point and line features. Standardized formatting, database schema, and symbology (based on the Client's GIS standards) were developed and utilized.		
b	<b>City of Coral Gables "Journey's End" Pump Station and Force Main, Design, Engineering &amp; CEI Services - Coral Gables, FL</b>	<b>On-going</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Project Manager.</b> The project involves the design and construction for the upgrade of the Pump Station Journeys End which includes a new valve vault, new pumping equipment, new electrical control panel as well as flood mitigation components. The project also involves the design and Construction of a new 4-inch discharge force main of approximately 1,600 LF. Services provided by 300 Engineering include Services provided by 300 Engineering include Engineering Assessment and Feasibility Study, Planning, Engineer of Record Services, Opinion of Probable Cost, Permitting, and Procurement Support Services.		
c	<b>Miami Dade Water &amp; Sewer Department - Pump Station 0733 Upgrade City of Coral Gables, FL</b>	<b>2017</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Davalos served as <b>project manager</b> for the PS 0733 pump station relocation project. The project involved the installation of a new pump station as well as gravity main and force main extensions for the pump station relocation. Ms. Davalos was responsible for the overall Civil, Mechanical and Electrical project management, QA/QC and project execution, including Utility Coordination, engineering plans design, permitting and limited construction support services.		
d	<b>Sanitary Sewer Evaluation Survey (SSES) - Night Flow Study and Basin Prioritization / City of Coral Gables, FL</b>	<b>2020</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Davalos served as <b>project manager</b> responsible for performing a system flow evaluation in order to identify basins above the 5,000 GPDIM Infiltration and Inflow (I/I) threshold specified in the Miami-Dade County Code. 300 Engineering performed wet season night flow monitoring by a combination of field investigations, and analysis of the City's Supervisory Control and Data Acquisition (SCADA) system data. Additionally, 300 Engineering analyzed the relationship between system-wide wastewater flows and rainfall, groundwater and tidal elevations for the one-year period of 2019. 300 Engineering prepared the City's Third Cycle Phase 1 and 2 SSES Report for submittal to the Miami-Dade County Department of Regulatory and Economic Resources (RER) Division of Environmental Resources Management (DERM). Additionally, 300 Engineering provided recommended priorities, timelines, tactics, initiatives, and the associated preliminary estimated costs to implement a phased I/I reduction program.		
e	<b>Water Quality Monitoring Assessment Plan - Phase I Municipal Separate Storm Sewer System (MS4) Permit - City of Coral Gables, FL</b>	<b>2022</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Ms. Davalos was the <b>project manager</b> in charge of creating a stormwater monitoring assessment plan for the City of Coral Gables. The goal of the Monitoring Plan was to determine the overall effectiveness of the City's Stormwater Management Program (SWMP) in reducing stormwater pollutant loadings from its Municipal Separate Storm Sewer System (MS4) to receiving water bodies. Ms. Davalos coordinated with the City and prepared the Assessment Program to comply with the Florida Department Environmental Protection (FDEP) MS4 Permit. The Assessment included a Water Quality Monitoring Plan to identify local sources where urban stormwater is adversely affecting surface water resources, a Pollutant Loading Estimate Plan to estimate the Pollutant Loading from the MS4 contributing area, based on land uses and BMPs and an Evaluation and Response Plan to evaluate trends in pollutants loading from the MS4, evaluate trends in water quality (of discharge from		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Amanda Ashby, AICP</b>	13. ROLE IN THIS CONTRACT <b>Project Planner</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>7 years</b>	b. WITH CURRENT FIRM <b>7 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Arts in Sociology</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / American Institute of Certified Planners (AICP), #35477</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Malabar Road PD&amp;E Study from SJHP to Minton Rd City of Palm Bay, FL</b>	<b>ONGOING</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Planner</b> responsible for responsible for assisting with stakeholder coordination and meeting logistics. The study will evaluate the need to widen Malabar Road from St. Johns Heritage Parkway to Minton Road. The total project length is four miles. Within the study limits, Malabar Road is currently a two-lane roadway within the City of Palm Bay. The purpose of the project is to accommodate future travel demands and improve safety.		
b	<b>Wekiva Trail Segment 5 PD&amp;E Study Lake County, FL</b>	<b>ONGOING</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Public Involvement Specialist</b> responsible for supporting stakeholder outreach, public meeting logistics, and community input. The project evaluates Wekiva Trail Segment 5 from Disston Avenue in Tavares to Tremain Street in Mount Dora, a distance of approximately 5.5 miles. Three potential trail alternatives in addition to the no-build alternative will be investigated to assess the project's impacts on the social, economic, cultural, natural, and physical environment in order to develop the Location and Design Concept.		
c	<b>St. Johns Heritage Parkway Alternative Corridor Evaluation Study Brevard County, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Planner</b> responsible for public and stakeholder coordination, including the sociocultural effects evaluation, Efficient Transportation Decision Making (ETDM) support, and assistance with the development of the Methodology Memorandum (MM) and Alternative Corridor Evaluation Report (ACER). The project involved the development and evaluation of 15 new corridors through 71 square miles of portions through Brevard County and the City of Palm Bay. The purpose of this study was to identify the purpose and need; to develop, evaluate, eliminate, and advance a range of corridors that could be carried forward and advanced to the PD&E Study phase. The project involved a range of pre-PD&E analysis, including analyzing and documenting existing conditions related to the natural, social, cultural, and physical environment; travel demand forecasting; land suitability mapping; agency coordination; and public involvement.		
d	<b>Old Lake Wilson Road PD&amp;E Study from CR 532 to Sinclair Road Osceola County, FL</b>	<b>ONGOING</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Planner</b> responsible for stakeholder engagement, meeting coordination, and public involvement logistics. This study is for the reconstruction/widening (2-lane to 4-lane) of an existing 2.49-mile segment of Old Lake Wilson Road from CR 532 (Osceola-Polk County Line Road) to Sinclair Road. The proposed typical section includes two 11-foot travel lanes in each direction separated by a 37-foot raised median, a 5-foot sidewalk on one side, and a 10-foot shared use path on the other side. A new two-lane southbound bridge over I-4 will be built and the existing two-way Old Lake Wilson Road bridge over I-4 will be converted to serve as the two-lane northbound bridge. The study is also analyzing the incorporation of the Osceola County ATMS system into the project.		
e	<b>Woodbury Road Roadway Conceptual Analysis (RCA) from Lake Underhill to SR 50, Orange County, FL</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <b>Planner</b> responsible for sociocultural effects evaluation, public involvement support hosting two virtual meetings and 4 LPA/BCC workshops and hearings, and report development assistance. This project consisted of a comprehensive interdisciplinary approach to conducting a conceptual roadway analysis aimed at identifying a preferred alternative to widen Woodbury Road. Ardurra (formerly Inwood) was responsible for project management, public involvement, roadway analysis, and project documentation. This project involved widening Woodbury Road from two to four lanes for a distance of approximately two miles. Two virtual public meetings were held and hosted via GoTo Webinar.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Xavier Pagán, MS</b>	13. ROLE IN THIS CONTRACT <b>Chief Environmental Scientist</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>24 years</b>	b. WITH CURRENT FIRM <b>1 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. (ARD) Tallahassee, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Master of Science in Biology Bachelor of Science in Zoology</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>2017 USFWS Regional Director's Honor Award / 2017 FDOT Excellence in Teamwork / 2014 FDOT Team of the Year 2014 / 2011 Award of Distinction - Davis Productivity Award / 2009 Davis Productivity Award, District 6 ARRA Project Management Support Team / 2008 FDOT Exceptional Contribution Award - Honoring Jon S. Beazley</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>FDOT Office of Environmental Management State Environmental Process Administrator, Tallahassee, Florida</b>	<b>2017</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Served as the primary point of contact statewide for FDOT National Environmental Policy Act activities. Developed, maintained and provided guidance (Efficient Transportation Decision Making (ETDM), PD&E, laws, regulations) in support of project delivery. Primary point of contact statewide for FDOT NEPA activities. Supported FDOT Districts and other offices in all aspects of project delivery for environmental activities from planning to construction. Reviewed proposed legislation for FDOT impact and served as the FDOT's representative at meetings and task forces.		
b	<b>FDOT District 6 Planning and Environmental Management Office (PLEMO), Miami- Dade County, FDOT District 6, Florida</b>	<b>2009</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Project Manager. Managed the District's ETDM program in coordination with the PLEMO Manager and the Environmental Administrator as the Community Liaison Coordinator. Served as main ETDM point of contact for agencies and MPO. Served as an environmental project manager on PD&E projects ranging from categorical exclusions (CEs) to Environmental Impact Statements (EISs) and re-evaluations. Reviewed project documents, managed consultants, met with the public and other stakeholders. Reviewed design plans for environmental issues, commitment compliance and permits. Coordinated with designers, agencies and the public as needed.		
c	<b>Long Key Bridge – Bridge 900094- Bridge Replacement PD&amp;E Study, Monroe County, FDOT District 6, Florida</b>	<b>On-going</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Chief Environmental Scientist. This PD&E study considers the replacement of the State Road 5 (SR 5)/US 1/Overseas Highway Long Key Bridge from N. Conch Avenue in Conch Key to the entrance of Edgewater Lodge in Long Key. The project is approximately 2.8 miles in length. Alternatives evaluated to determine the best option to meet the purpose of the project while avoiding and		
d	<b>5th Street over Yacht Club Cut Bridge Replacement New Smyrna Beach</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE PD&E Task Leader responsible for the PD&E study documentation, coordination and quality control for this bridge replacement project. The PD&E study includes preparation of a Type 2 categorical exclusion (CE) pursuant to NEPA. The facility is a 2-lane roadway providing access from the mainland to an island community and marina. The bridge typical section consists of two 9-foot lanes, with 2.5-foot shoulders and a 5-foot sidewalk with traffic railings. The bridge superstructure is comprised of a 4-span flat slab structure consisting of 40-foot spans. The roadway will be reconstructed on each side of the bridge with a temporary ACROW bridge constructed to provide access during the bridge replacement. Scour and tidal influences will play a critical role in design of the structure. This is a LAP project between the City of New Smyrna Beach and District Five.		
e	<b>SR 56 Extension Alternative Corridor Evaluation Zephyrhills, FL</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for the ACE to consider the extension of SR 56 from US 301/SR 41 to US 98/ SR 35/ SR 700 in Pasco County. The purpose of the ACE is to identify, evaluate and recommend project alternatives prior to the PD&E phase. The ACE will consider the purpose and need, document the general environmental setting for the project, identify preliminary environmental impacts and environmental mitigation, evaluate engineering feasibility and propose improvements to address the project need. Mr. Pagan is responsible for providing guidance and support to the prime consultant and providing leadership in preparation of ACE documentation.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Patricia Torres, PE</b>	13. ROLE IN THIS CONTRACT <b>Senior Roadway Engineer</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>19 years</b>	b. WITH CURRENT FIRM <b>2 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering Master of Science in Environmental Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #77974</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
<b>Golden Glades Interchange (GGI) Improvements (SR-826/Palmetto Expressway EB Ramp to SR-9A/I-95 NB) Miami-Dade County, Florida</b>	<b>2022</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">Check if project performed with current firm</span> a <b>Senior Project Engineer/Lead Technical Engineer</b> for this project which includes the construction of 4 new bridges and 3 widenings. The GGI is of regional importance providing connectivity to six major principal arterials and/or limited access expressway facilities including I-95/SR 9A, SR 9, SR 91 (Florida's Turnpike), US-441/SR 7 and SR 826. The primary purpose of this project is to provide a direct connection ramp from SR 826 eastbound to I-95 northbound. Additionally, the project will also: improve the Turnpike southbound to the I-95 southbound movement; enhance multimodal use for both transit and freight; develop interim improvements within the GGI to enhance safety. The project includes the construction of 47 new bridges that include 7 steel bridges, 36 Florida I-beam bridges and 4 segmented bridges. The project also involved the design of a complex maintenance of traffic (MOT) scheme to minimize the effect of the construction activities on traffic while ensuring the safety of motorists and construction staff.		
<b>SR 826 / SR 836 Interchange Reconstruction, Miami-Dade County, FL / FDOT District 6</b>	<b>2016</b>	<b>2016</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">Check if project performed with current firm</span> b <b>Senior Project Engineer/ Temporary Traffic Control (TTC) Engineer</b> for the complex TTC scheme developed to support the reconstruction of this \$560 million, four-level interchange in the heart of Miami-Dade County. The project includes the reconstruction of approximately 2 miles of SR 826 from SW 8th Street to NW 25th Street and approximately 3 miles of SR 836 from NW 87th Avenue to NW 57th Avenue to provide 5 lanes in each direction along the mainline plus the introduction of EBCD and WBCD roads along SR 836. The job includes the construction of 47 new bridges that include 7 steel bridges, 36 Florida I-beam bridges and 4 segmented bridges. Other improvements include retaining walls, lighting, sound walls, canal relocation, utilities JPA plans, signalization, new signing and pavement markings, new ITS, and special aesthetic features. Extensive stakeholder coordination is required with FDOT, MDX, MDC Water & Sewer, utility owners, MIA, CSX Transportation, DERM, and SFWMD, etc.		
<b>I-195 (SR 112) from I-95 to Biscayne Bay Miami-Dade County, FDOT District 6</b>	<b>2022</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> c <b>Project Engineer (Pavement Rehabilitation Plans)</b> for operational safety improvements to two miles of this limited access facility. Improvements include provisions for a new, exclusive, auxiliary lane along I-195 eastbound to North Miami Avenue from I-95 northbound and a new auxiliary lane from North Miami Avenue along I-195 westbound to I-95 northbound. The project also involves replacing median curbs with a median barrier wall, widening eight bridges, constructing new retaining walls, pavement rehabilitation and surface street improvements to North Miami Avenue.		
<b>SR-836/I-395/I-95 D/B Reconstruction Miami, FL</b>	<b>2021</b>	<b>2023</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">Check if project performed with current firm</span> d <b>Senior Project Engineer</b> for this project (working with the Archer Western – de Moya Group JV) and assisting in the Maintenance of Traffic throughout the three corridors for this project. This I-395 / SR 836 / I-95 Design-Build Project is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95 and I-395. This project boasts a double-decker bridge over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard, and a 55-acre Heritage Trail underneath I-395 which will forever connect Downtown Miami and will revitalize the Overtown community. This project also includes roadway lighting, streetscape lighting, approach span aesthetic lighting and Signature Bridge aesthetic lighting, Intelligent Transportation Systems, streetscaping and landscaping.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Melissa Monsalve, PE</b>	13. ROLE IN THIS CONTRACT <b>Roadway Engineer</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>6 years</b>	b. WITH CURRENT FIRM <b>6 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer # 93593</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

a	(1) TITLE AND LOCATION (City and State) <b>SR-836/I-395/I-95 D/B Reconstruction Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		<b>2018 - Current</b>	<b>2028</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> <b>Engineer</b> for this project (working with the Archer Western – de Moya Group JV) and assisting in the Maintenance of Traffic throughout the three corridors for this project. The I-395/SR 836/I-95 Design-Build Project is a reconstruction project that improves capacity and safety in three of Miami-Dade’s highways, SR 836, I-95 and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard, and a 55-acre Heritage Trail underneath I-395 which will forever connect Downtown Miami and will revitalize the Overtown community.		
b	(1) TITLE AND LOCATION (City and State) <b>SR 821 Homestead Extension of Florida’s Turnpike (HEFT) Widening from NW 106 Street to I-75 Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		<b>2019 – Current</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> <b>Engineer</b> for this \$368 million capacity project along the HEFT. The project involves addition of managed lanes, reconstruction of the Okeechobee Road interchange and construction of a new diverging diamond interchange at NW 170th Street in Miami-Dade County. Drainage responsibilities included: temporary drainage design, coordinating all project drainage improvements including temporary drainage and coordination with Miami Dade DRER on Maintenance of Flow for the Golden Glades Canal during construction of the new NW 170th Street interchange.		
c	(1) TITLE AND LOCATION (City and State) <b>Sawgrass Expressway (SR 869) at Atlantic Boulevard Interchange Broward County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		<b>2022- Current</b>	<b>2028</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> <b>Engineer</b> and supporting roadway, drainage, and TCP plans for the SR-869 segment as well as TCP plans for Atlantic Blvd. Widening the existing roadway from 6 to 10 lanes from north of Commercial Boulevard (Exit 5) to north of Atlantic Boulevard (Exit 8). Replacing the Sawgrass Expressway bridges over Atlantic Boulevard to address flooding. Reconstructing the northbound and southbound Sawgrass Expressway entrance and exit ramps at Atlantic Boulevard. Widening eastbound Atlantic Boulevard from two to three lanes and constructing a new bike lane from Sawgrass Expressway to NW 121 Terrace. Widening westbound Atlantic Boulevard from two to three lanes and constructing a new bike lane from Lakeview Drive to Sawgrass Expressway. Enhancing stormwater management at the pond west of the interchange. Improving signage, pavement markings, signalization, lighting, and drainage. This Cost Saving Initiative (CSI) consists of the replacement of the seepage barrier (sheet pile) between the L-36 and the existing borrow pond (Pond 9-1) within the uplands, and bulkhead (impoundment) wall system proposed to control the potential effects of high stages within the L-36 canal infiltrating into the pond due to permeable soils, with an impermeable fabric filled buffer along the existing pond berm coupled with elevating sections of the existing Access Road.		
d	(1) TITLE AND LOCATION (City and State) <b>I-75 at SR 951 Interchange Design Build Project (Collier County, FL) FDOT D1</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
		<b>2022 Current</b>	<b>2028</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">Check if project performed with current firm</span> <b>Signing and Pavement Marking Engineer of Record (EOR)</b> . This project provides safety and mobility improvements to the I-75/SR-951 Interchange. The de Moya / ARD team presented several Alternative Technical Concepts (ATC’s) that reduced overall cost, enhanced safety, improved mobility and reduced overall construction duration. Our team’s bid was approximately 20% lower than the 2nd place team. ARD the prime consultant in charge of Roadway, bridge and noise wall design.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Diego Jimenez, PE</b>	13. ROLE IN THIS CONTRACT <b>Senior Structures Engineer - Bridges</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>20 years</b>	b. WITH CURRENT FIRM <b>6 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering Master of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #68557</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Certificate, FDOT, PE Training Program - 2007</b>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
<b>I-95 Express Lanes Design-Build Phase 3C Broward County, FL</b>	<b>2023</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> a The I-95 Express Lanes Design-Build Phase 3C from Stirling Rd to Broward Blvd Project is part of a regional network of express lanes that will provide a safe, efficient, and reliable transportation alternative to drivers traveling throughout South Florida to improve mobility, relieve congestion, provide additional travel options, enhance transit services, accommodate future growth and development in the region, enhance emergency evacuation, and improve system connectivity between key limited access facilities in South Florida. This phase is approximately 9 miles along I-95 and includes approximately 2 miles of I-595. Diego is the structures EOR for 3 of bridge widenings and associated retaining walls in this design build project. Two of the bridges are existing AASHTO beams structures which are being widened with Florida-I prestressed concrete beams. The other bridge is a CIP flat slab superstructure. Substructure for each of the bridges consist of pile bents. Retaining wall types include MSE and sheet pile walls. The project modified the I-95 bridge over C-10 Canal to include noise walls.		
<b>Brant Drive Bridge replacement from Oregon Lane to Avocet Road, Palm Beach County, FL</b>	<b>2021</b>	<b>N/A</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> b ARD is the prime consultant in charge of the final design services for the replacement of Brant Drive Bridge over Canal C-15. The new bridge will provide two travel lanes and additional bike/pedestrian paths on both sides. Diego is the Structures EOR for the project. Florida Slab Beam (FSB) was the selected superstructure type in final design since it provided a reduction in the total number of construction days when compared to the traditional CIP flat slab superstructure. Substructure consisted of pile bents located to avoid conflict with existing foundations.		
<b>Wekiva Parkway (Section 8) Design-Build, Seminole County, FL</b>	<b>2022</b>	<b>2023</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> c The Wekiva Parkway (Section 8) Project is part of the ongoing Wekiva Parkway projects that will complete the beltway around Central Florida. Section 8 is the final piece completing the Wekiva Parkway with the construction of a new interchange at I-4, creating system to system connections with SR 417 and SR 429. This also includes connecting SR 429 and SR 417 with over 2.6 miles of limited access toll expressway from east of Orange Boulevard (Wekiva Section 7A) to east of Rinehart Road with a new full-service interchange at International Parkway. Diego is the Structures QC officer for a new bridge carrying Ramp O1 over ramp L1. The superstructure consists of Florida-I prestressed concrete beams. The substructure is a multi-column frame supported on deep foundations. Other structural scope in the project included retaining walls.		
<b>SR-836/I-395/I-95 D/B Reconstruction Miami, FL</b>	<b>2021</b>	<b>2023</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> d This is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95 and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard. Diego is the Structures Project Manager for the project. Additionally, Diego is the EOR for overhead sign structures, one high level bridge in the I-95/I-395 interchange, and Common Elements and Notes for the 395 segment.		
<b>I-75 at SR 951 Interchange Design Build Project (Collier County, FL) FDOT D1</b>	<b>2023</b>	<b>Ongoing</b>
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> e This project provides safety and mobility improvements to the I-75/SR-951 Interchange. The de Moya / ARD team presented several Alternative Technical Concepts (ATC's) that reduced overall cost, enhanced safety, improved mobility and reduced overall construction duration. Our team's bid was approximately 20% lower than the 2nd place team. ARD the prime consultant in charge of Roadway, bridge and noise wall design.		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Jonatan Fernandez, PE</b>	13. ROLE IN THIS CONTRACT <b>Structures Engineer</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>9 years</b>	b. WITH CURRENT FIRM <b>6 year</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering Master of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #90893</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>I-95 Express Lanes Design-Build Phase 3C Broward County, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer. The I-95 Express Lanes Design-Build Phase 3C from Stirling Rd to Broward Blvd Project is part of a regional network of express lanes that will provide a safe, efficient, and reliable transportation alternative to drivers traveling throughout South Florida to improve mobility, relieve congestion, provide additional travel options, enhance transit services, accommodate future growth and development in the region, enhance emergency evacuation, and improve system connectivity between key limited access facilities in South Florida. This phase is approximately 9 miles along I-95 and includes approximately 2 miles of I-595. Jonatan is a structures EIT for 3 of bridge widenings and associated retaining walls in this design build project. Two of the bridges are existing AASHTO beams structures which are being widened with Florida-I prestressed concrete beams. The other bridge is a CIP flat slab superstructure. Substructure for each of the bridges consist of pile bents. Retaining wall types include MSE and sheet pile walls.		
b	<b>Brant Drive Bridge replacement from Oregon Lane to Avocet Road, Palm Beach County, FL</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer for the project. Florida Slab Beam (FSB) was the selected superstructure type in final design since it provided a reduction in the total number of construction days when compared to the traditional CIP flat slab superstructure. Substructure consisted of pile bents located to avoid conflict with existing foundations.		
c	<b>Wekiva Parkway (Section 8) Design-Build, Seminole County, FL</b>	<b>2022</b>	<b>2022</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer. The Wekiva Parkway Project is part of the ongoing Wekiva Parkway projects that will complete the beltway around Central Florida. Section 8 is the final piece completing the Wekiva Parkway with the construction of a new interchange at I-4, creating system to system connections with SR 417 and SR 429. This also includes connecting SR 429 and SR 417 with over 2.6 miles of limited access toll expressway from east of Orange Boulevard (Wekiva Section 7A) to east of Rinehart Road with a new full-service interchange at International Parkway. Jonatan is a structures EIT for a new bridge carrying Ramp O1 over ramp L1. The superstructure consists of Florida-I prestressed concrete beams. The substructure is a multi-column frame supported on deep foundations. Other structural scope in the project included retaining walls.		
d	<b>SR-836/I-395/I-95 D/B Reconstruction Miami, FL</b>	<b>2021</b>	<b>2023</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer for the project. This is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95 and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard. Jonatan is a structures EIT for one high level bridge in the I-95/I-395 interchange.		
e	<b>SR 90 (Tamiami Trail) 2.3-mile Bridging from East of Osceola Camp to West of Airboat Association of Florida Miami, FL</b>	<b>2018</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structures Engineer for the project. The scope of this project is the replacement of the existing Tamiami Trail roadway bed in 2.3 miles of bridges that will allow for the future flow of water from the portion of the Everglades north of Tamiami Trail to the Shark River Slough to the south of the highway with the objective of restoring the historic hydrologic flow to the southern Everglades. This increase in flow to Shark River incorporates the goals established in the Comprehensive Everglades Restoration Plan (CERP) and in the Tamiami Trail Modifications Next Step (TTM) and Modified Water Deliveries to Everglades National Park.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Eloy Rodriguez, PE</b>	13. ROLE IN THIS CONTRACT <b>Structural Project Engineer</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>11 years</b>	b. WITH CURRENT FIRM <b>6 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #82399</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>I-75 at SR 951 Interchange Design Build Project (Collier County, FL) FDOT D1</b>	<b>2023</b>	<b>Ongoing</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> This project provides safety and mobility improvements to the I-75 interchange and the SR 84 intersection. The de Moya / Ardurra team presented several Alternative Technical Concepts (ATC's) that reduced overall cost, enhanced safety, improved mobility and reduced overall construction duration. Our team's bid was approximately 20% lower than the 2nd place team. ARD is the prime consultant in charge of retaining wall, bridge, and noise wall design. Role: EOR for bridge, retaining walls, noise walls, signal structures, and sign structures.		
b	<b>Brant Drive Bridge replacement from Oregon Lane to Avocet Road, Palm Beach County, FL</b>	<b>2021</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> ARD is the prime consultant in charge of the final design services for the replacement of Brant Drive Bridge over Canal C-15. The new bridge will provide two travel lanes and additional bike/pedestrian paths on both sides. Eloy is a structures project engineer for the project. Florida Slab Beam (FSB) was the selected superstructure type in final design since it provided a reduction in the total number of construction days when compared to the traditional CIP flat slab superstructure. Substructure consisted of pile bents located to avoid conflict with existing foundations. Role: QC review.		
c	<b>Wekiva Parkway (Section 8) Design-Build, Seminole County, FL</b>	<b>2022</b>	<b>2022</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> The Wekiva Parkway (Section 8) Project is part of the ongoing Wekiva Parkway projects that will complete the beltway around Central Florida. Section 8 is the final piece completing the Wekiva Parkway with the construction of a new interchange at I-4, creating system to system connections with SR 417 and SR 429. This also includes connecting SR 429 and SR 417 with over 2.6 miles of limited access toll expressway from east of Orange Boulevard (Wekiva Section 7A) to east of Rinehart Road with a new full-service interchange at International Parkway. Eloy is the Structures EOR for a new bridge carrying Ramp O1 over ramp L1. The superstructure consists of Florida-I prestressed concrete beams. The substructure is a multi-column frame supported on deep foundations. Other structural scope in the project included retaining walls. Role: EOR for bridge and retaining walls.		
d	<b>SR-836/I-395/I-95 D/B Reconstruction Miami, FL</b>	<b>2021</b>	<b>2023</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> This is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95 and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard. Role: EOR for one high level bridge in the I-95/I-395 interchange as well as for temporary and permanent retaining walls, end overhead sign structures along the 836 segment.		
e	<b>I-95 Express Lanes Design-Build Phase 3C Broward County, FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> The I-95 Express Lanes Design-Build Phase 3C from Stirling Rd to Broward Blvd Project is part of a regional network of express lanes that will provide a safe, efficient, and reliable transportation alternative to drivers traveling throughout South Florida to improve mobility, relieve congestion, provide additional travel options, enhance transit services, accommodate future growth and development in the region, enhance emergency evacuation, and improve system connectivity between key limited access facilities in South Florida. This phase is approximately 9 miles along I-95 and includes approximately 2 miles of I-595. ARD is in charge for the design of bridge, retaining walls and bridge noise walls. Role: QC review.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Ricardo Escobar, PE, CGC</b>	13. ROLE IN THIS CONTRACT <b>Senior Engineer CEI</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>30 years</b>	b. WITH CURRENT FIRM <b>5 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b> <b>Bachelor of Science in Architectural Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #74877</b> <b>State of Florida / General Contractor #CGC1520811</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Certification, FDOT (CTQP) Quality Control Manager, Asphalt Level 1 and Level 2</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>I-395/SR 836/I-95 Reconstruction Design-Build</b> <b>Miami-Dade, FL</b>	<b>2021</b>	<b>2023</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">X Check if project performed with current firm</span> Ricardo is serving as <b>Senior Engineer</b> , assisting in the Design Management of this design-build project, (working with the Archer Western – de Moya Group JV). He coordinates tasks from the JV team (contractors) to the designers involved in the project. This I-395/SR 836/I-95 Design-Build Project is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95 and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard, and a 55-acre Heritage Trail underneath I-395 which will forever connect Downtown Miami and will revitalize the Overtown community.		
b	<b>Flagler Street Marketplace</b> <b>Miami, FL</b>	<b>2005</b>	<b>2007</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">X Check if project performed with current firm</span> <b>Construction Project Manager</b> for converting Flagler Street to a two-way street in Downtown Miami. This conversion also included SE 3rd Avenue, from Flagler Street to SW 4th Street. The work involved removing and reconstruction the traffic signals at 11 intersections with over 20 new "trombone" mast arms.		
c	<b>MDX83629 - SR 836 Interchange Modifications at 87th Avenue</b> <b>Miami-Dade, FL</b>	<b>2016</b>	<b>2020</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">X Check if project performed with current firm</span> Construction Oversight for this project that provides operational improvements of the SR 836 interchange at 87th Ave including modified connection to Section 5 of the Palmetto Expressway project; direct connection to SR 836 west from NW 12th Street via a flyover ramp. The Interchange concept also eliminates the current weaving condition between the Westbound collector distributor road and the entrance ramp from Northbound NW 87th Avenue to Westbound SR 836. The project involves 7 new bridges and the reconstruction of two toll plaza locations.		
d	<b>LeJeune Road Flyover</b> <b>Miami, FL</b>	<b>2003</b>	<b>2005</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">X Check if project performed with current firm</span> <b>Construction Project Manager</b> for this project that provides reconstruction of LeJeune Road, between NW 36th Street and Okeechobee Road. The new construction involves replacing the existing LeJeune Road Bridge at the Miami Canal with two new bridges, one for each bound. Bridge supports required pre-stressed concrete piling and drill shafts.		
e	<b>Palmetto Section 5 (SR826/SR836) Interchange,</b> <b>Miami-Dade County, FL</b>	<b>2022</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">X Check if project performed with current firm</span> <b>Construction Project Manager</b> for the Section 5 interchange, which was a critical component of the South Florida transportation network, as the Dolphin Expressway is a major route to Miami International Airport (MIA). The design-build-finance project entailed the construction of a four-level interchange at SR 826 and SR 836, as well as the reconstruction and modification of two existing interchanges. There were four complex precast segmental bridge ramps that will traverse the core of the interchange. In addition, there were four steel plate girder bridges and thirty-eight Florida I-Beam bridges. The bridges were being constructed over multiple roadways that carry an average of more than 430,000 vehicles per day. new connections between S.R. 826 and S.R. 836 in all directions allowed drivers direct access and reduced travel times. Extensive ITS at over 25 off-site and on-site Dynamic Messaging locations were required.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Ivan Blanco Carrasquero</b>	13. ROLE IN THIS CONTRACT <b>CEI Support</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>12 years</b>	b. WITH CURRENT FIRM <b>1 year</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Systems Engineer, University of Aragua</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>ACI Concrete Field Technician; ACI Concrete Transportation Construction Inspector; FDOT CTQP - Earthwork Level I; Concrete Field Inspector; Drilled Shaft; Pile Driving; Final Estimates Level I &amp; II; FDOT - MSE Wall (Computer Based Training)</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>FDOT - Auger Cast Pile (Computer Based Training); Advance Plan Reading (Roadway and Drainage &amp; Bridge); and others</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Drainage Improvement Glade View Phase I-A 7 Phase II Miami Dade County, FL</b>	<b>2021</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CEI responsible for the supervision of contractor and subcontractor for construction and installation of drainage structure, French drains, miscellaneous drainage improvements, grading, sodding, and miscellaneous roadway restoration including construction of concrete curb and gutters, milling and resurfacing, installation of pavement markings and signage, and sidewalks where needed in accordance with the construction plans and specifications.		
b	<b>Sidewalk Improvement Wo#10 &amp; Wo# 4 Miami Dade County (DTPW), FL</b>	<b>2023</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CEI responsible for the supervision of removal and replacement of concrete sidewalk, pedestrian access ramps and connectors to comply with current Americans with Disabilities Act (ADA) standards, construction of curb and gutter and construction bus connectors and landings.		
c	<b>Intersection Improvements Wo#11 / Wo#6 &amp; Wo#9 Miami Dade County (DTPW), FL</b>	<b>2020</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CEI responsible for the supervision of contractor and subcontractor for construction and installation of drainage structure, French drains, miscellaneous drainage improvements, grading, sodding, and miscellaneous roadway restoration including construction of concrete curb and gutters, milling and resurfacing, installation of pavement markings and signage, and sidewalks where needed in accordance with the construction plans and specifications.		
d	<b>Push Button Intersection Improvements Wo#14 Miami Dade County (DTPW), FL</b>	<b>2019</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95 and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard. Role: EOR for one high level bridge in the I-95/I-395 interchange as well as for temporary and permanent retaining walls, end overhead sign structures along the 836 segment.		
e	<b>Quality Assurance and Materials Sampling - USACE Various Cities, FL</b>	<b>2019</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Field inspector for various field and laboratory activities at the direction of the USACE for the purposes of Quality Assurance and testing for soils and concrete, which include both field and laboratory tests. Ensured that all standards are met and that the best practices are implemented in the material tests conducted for the following projects around the Lake Okeechobee:		



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Kennedy Simmonds, PE</b>	13. ROLE IN THIS CONTRACT <b>Drainage Engineer</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>24 years</b>	b. WITH CURRENT FIRM <b>5 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>State of Florida / Professional Engineer #66357</b> <b>State of Texas / Professional Engineer #128131</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) <b>Temporary Traffic Control Advanced Course, FDOT</b>			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>SR 821 Homestead Extension of Florida's Turnpike (HEFT) Widening from NW 106 Street to I-75 Miami-Dade County, FL</b>	<b>2019-Current</b>	<b>N/A</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Drainage Engineer of Record (EOR)</b> for this \$368 million capacity project along the HEFT. The project involves addition of managed lanes, reconstruction of the Okeechobee Road interchange and construction of a new diverging diamond interchange at NW 170 Street in Miami-Dade County. Drainage responsibilities included: temporary drainage design, coordinating project drainage improvements including temporary drainage and coordination with Miami Dade Department of Regulatory and Economic Resources on maintenance of flow for the Golden Glades Canal during construction of the new NW 170 Street interchange.	
b	<b>Sawgrass Expressway (SR 869) at Atlantic Boulevard Interchange, Broward County</b>	<b>ONGOING</b>	<b>N/A</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Drainage EOR.</b> Widening the existing roadway from 6 to 10 lanes from north of Commercial Boulevard (Exit 5) to north of Atlantic Boulevard (Exit 8). Replacing the Sawgrass Expressway bridges over Atlantic Boulevard to address flooding. Reconstructing the northbound and southbound Sawgrass Expressway entrance and exit ramps at Atlantic Boulevard. Widening eastbound Atlantic Boulevard from two to three lanes and constructing a new bike lane from Sawgrass Expressway to NW 121 Terrace. Widening westbound Atlantic Boulevard from two to three lanes and constructing a new bike lane from Lakeview Drive to Sawgrass Expressway. Enhancing stormwater management at the pond west of the interchange. Improving signage, pavement markings, signalization, lighting, and drainage. This Cost Saving Initiative (CSI) consists of the replacement of the seepage barrier (sheet pile) between the L-36 and the existing borrow pond (Pond 9-1) within the uplands, and bulkhead (impoundment) wall system proposed to control the potential effects of high stages within the L-36 canal infiltrating into the pond due to permeable soils, with an impermeable fabric filled buffer along the existing pond berm coupled with elevating sections of the existing Access Road. Drainage responsibilities include temporary drainage design, coordinating all project improvements related drainage along with negotiation of related CSI approvals. Additional responsibilities include coordination with Broward County, SFWMD and Coral Springs Improvement District (CSID) on CSI approvals and all related permit modifications for drainage improvements related to the CSI.	
c	<b>Wekiva Parkway (Section 8) Design-Build, Seminole County, FL</b>	<b>2022</b>	<b>2022</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Drainage EOR</b> for the work ARD is developing with DRMP and BCC Engineering (under Lane Construction) and is responsible for maintenance of traffic design for the entire project as well as supporting the structural design efforts by designing a westbound C-D ramp bridge along I-4. The Wekiva Parkway (Section 8) Project is part of the ongoing Wekiva Parkway projects that will complete the beltway around Central Florida, while protecting the natural resources surrounding this vital corridor. Section 8 is the final piece completing the Wekiva Parkway with the construction of a new interchange at I-4, creating system to system connections with SR 417 and SR 429. This also includes connecting SR 429 and SR 417 with over 2.6 miles of limited access toll expressway from east of Orange Boulevard (Wekiva Section 7A) to east of Rinehart Road with a new full-service interchange at International Parkway.	
d	<b>SR 25/US 27/Okeechobee Rd from E of NW 107 Ave to E of NW 116 Way/Hialeah Gardens Blvd Miami, FL</b>	<b>ONGOING</b>	<b>N/A</b>
		(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Drainage EOR.</b> Constructing a new second level overpass, including four new bridges, on SR 25/US 27/Okeechobee Road to cross NW 116 Way/Hialeah Gardens Boulevard. Providing new access ramps to Frontage Road and Hialeah Gardens High School. Widening the roadway, Frontage Road, NW South River Drive and the bridges over the Miami Canal. Reconstructing SR 25/US 27/Okeechobee Road with concrete pavement.	



**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Nicholas J. Fernandez, PE</b>	13. ROLE IN THIS CONTRACT <b>Permitting</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>10 years</b>	b. WITH CURRENT FIRM <b>10 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>BS, Civil Engineering</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <b>Professional Engineer (PE), Florida FDOT MOT Advanced Certification NASSCO (PACP, LACP, MACP)</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a	<b>Roadway and Stormwater Improvements for Sunrise Harbor Cu-de-sacs City of Coral Gables, FL</b>	<b>2020</b>	<b>2022</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> Project manager for the design of roadway improvements for four (4) residential roads within the City of Coral Gables, Sunrise Harbor. 300 Engineering was tasked with performing the analysis and design of stormwater and roadway improvements within Sunrise Harbor. These residential roads act as individual peninsulas, as both sides of the street face the Coral Gables Waterway canals. Stormwater improvements for these areas consisted of, but not limited to, catch basin installations, connections to existing systems, auger removals, and existing catch basin/outfall repairs/improvements. In addition to stormwater improvements, roundabouts reconstruction was performed including new curb & gutter, landscaping and irrigation to improve traffic flow and beautify the community. A swept path analysis was performed, and the results of these analysis were used to design the round-a-bout where it would not interfere with the swept path projections.		
b	<b>Traffic Calming along Aragon Ave and Giralda Ave City of Coral Gables, FL</b>	<b>2020</b>	<b>2021</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">✓ Check if project performed with current firm</span> Mr. Fernandez served as the project manager for the design of roadway improvements for two (2) residential roads within the City of Coral Gables. These roads, Aragon and Giralda Ave., run East/West from Segovia St. to S. Le Jeune Rd. The scope of the project included designing a Traffic Calming plan for this area, including but not limited to, installation of a raised intersection (speed table), installation of brick paver entrances from major roads indicating to drivers the area is residential, and the installation of a curbed island. In addition, 300 Engineering was tasked with improving the stormwater infrastructure conditions within this project area through the installation/relocation of stormwater structures, and regarding the roadway. Stormwater structures designed included French drains, catch basins connected to existing trenches with solid pipes, and stormwater manholes. Mr. Fernandez was also the Construction Engineer for the project, ensuring compliance with construction documents, performing field inspections and review contractor's schedule of values among many others.		
c	<b>Public Safety Building Drainage Improvements City of Coral Gables, FL</b>	<b>2020</b>	<b>2021</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">Check if project performed with current firm</span> Project engineer for design services for the new Public Safety Building for the City of Coral Gables. 300 Engineering was responsible for the design of the drainage system for a basin that collects stormwater from over a 4-acre area, which includes the Public Safety Building's footprint, adjacent alleys and streets, and a future parking lot. 300 Engineering performed and provided drainage calculations for this stormwater basin using a 10 year – 1-day storm event. The new drainage systems consist of over 400 LF of Exfiltration Trenches, eight (8) new drainage structures, and 650 LF of Drainage Conveyance Pipe up to 24 inches in diameter.		
d	<b>Sunrise Harbor Drainage Assessment Coral Gables, FL</b>	<b>2020</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <span style="float:right">Check if project performed with current firm</span> Project Manager for the study of the City of Coral Gables Sunrise Harbor area which is currently affected during high tide events, and it has elevations as a low as 2.5 ft NGVD. 300 Engineering was tasked to perform data collection, basin delineation, stormwater modeling and analysis using ICPR, geotechnical, topographic survey, alternative development evaluation and selection, and conceptual design development that considers current and future land uses as well as future environmental conditions, including the impacts of climate change and sea-level rise. The main objective is to ensure that recommended stormwater management components are technically, economically and functionally consistent, and can be implemented in a manner that meets the requirements of the City of Coral Gables, SFWMD and MD-RER and any other regulatory requirements. 300 Engineering evaluated the following alternatives: harmonization into private property, upsizing existing pipelines/outfalls, right-of-way regrading and stormwater pump station.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Angela Bernace</b>	13. ROLE IN THIS CONTRACT <b>Public Involvement Lead</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>19 years</b>	b. WITH CURRENT FIRM <b>8 years</b>
15. FIRM NAME AND LOCATION (City and State) <b>Ardurra Group, Inc. / Miami, FL</b>			
16. EDUCATION (DEGREE AND SPECIALIZATION) <b>Bachelor of Science in Business Administration</b>		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
a	<b>I-95 Safety Improvement Project, from North of Gatlin Boulevard to South of St. Lucie West Boulevard, FDOT District 4</b>	<b>On-going</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Public Involvement Support. The purpose of this project is to improve safety to the I-95 corridor from North of Gatlin Boulevard to south of St. Lucie West Boulevard in St. Lucie County. After an analysis of the crash history and existing conditions, the corridor will be resurfaced to correct cross slope and minimize the potential for hydroplaning. The project also includes extension of the northbound on-ramp at the Gatlin Boulevard interchange and southbound on-ramp at the St. Lucie West Boulevard interchange, addition of lighting and a new LED Curve Warning System. The public involvement activities included the preparation of a Community Awareness Plan, an invitational flyer, PowerPoint presentation and boards as well as other collaterals to support the hosting of a hybrid public meeting (virtual and in-person).		
b	<b>Project Development and Environment (PD&amp;E) Study for I-95 from Stirling Road to Oakland Park Boulevard</b>	<b>2015</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Public Involvement Support. The purpose of this study was to enhance operational capacity and relieve congestion by implementing two High Occupancy Toll (HOT) lanes in each direction. The project was part of the managed lanes vision for South Florida and included coordination with other on-going managed lanes studies up to Linton Boulevard. The Study included a comprehensive public involvement program with over 5000 stakeholders.		
c	<b>Project Development and Environment (PD&amp;E) Study for the Widening of SR 80/Southern Boulevard from Seminole Pratt-Whitney Road to Forest Hill Boulevard</b>	<b>2013</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Public Involvement Support. This project involved an eight-mile PD&E Study from CR 880 to Forest Hill Blvd. This corridor is one of two major east-west corridors within northern Palm Beach County and provides vital access to western Palm Beach County. The corridor was identified in the FDOT SIS plans for capacity improvements. The project involves widening the segments east of Lion Country Safari Road from four to six lanes and upgrading the entire corridor to meet the requirements of the Strategic Intermodal System (SIS) and access management standards.		
d	<b>Districtwide PD&amp;E Consultant for FDOT District 4 Contracts No. 1 &amp; 2 – Public Involvement Guidelines</b>	<b>2012</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Public Involvement Support for the development of the District Four Public Involvement Guidelines. The guidelines included sample documents such as: invitations, event checklist, save-the-date flyer, agenda, participant survey, newspaper ads, and others.		
e	<b>Districtwide PD&amp;E Consultant for FDOT District 4 Contracts No. 1 – Context Sensitive Solutions</b>	<b>2017</b>	<b>N/A</b>
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Public Involvement Support for the development of a table display board to provide the general public with information about Context Sensitive Solutions (CSS) and training materials to support the D4 CSS training. Collaterals included two CSS brochures covering Resurfacing Restoration and Rehabilitation (3R) and PD&E projects as well as three table display setups for 1) PD&E. 2) 3R and 3) in-house training. CSS topics included transportation design for livable communities, pedestrian, bicycle, greenways information, landscaping, aesthetics, environmental preservation, travel speeds and relationship to safety, mid-block crossings, trees and clear zones, and lane width to name a few.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Carlos Mercado, PE, MS</b>	13. ROLE IN THIS CONTRACT Senior Geotechnical Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 31	b. WITH CURRENT FIRM 11
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences – Delray Beach, FL			
16. EDUCATION (Degree and Specialization) BS, Civil Engineering MS, Geotechnical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer – FL #71707 Geotechnical Engineer – Puerto Rico	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>Rivera Beach Fire Station – Rivera Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Branch Manager/Principal Geotechnical Engineer – This project was an existing Fire Station that was demolished, and a new 2-story building was constructed in its place. GFA dba UES performed geotechnical and environmental evaluations.		<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) <b>Proposed Lift Station - Hollywood, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Branch Manager/Principal Geotechnical Engineer - GFA dba UES performed a geotechnical evaluation for the construction of the new lift station.		<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) <b>PBC Courthouse – West Palm Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Branch Manager/Principal Geotechnical Engineer - GFA dba UES performed geotechnical evaluations for SOG and water intrusion assessments.		<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) <b>Temporary Fire Station – Fort Lauderdale, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Branch Manager/Principal Geotechnical Engineer - GFA dba UES performed construction materials testing for this temporary fire station.		<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) <b>Sunrise Municipal Complex - Sunrise, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2021</b>	CONSTRUCTION (If applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Branch Manager/Principal Geotechnical Engineer - Construction of a Five-story City Hall with associated site work, a three-story parking structure, a covered walkway connecting the new parking structure to the existing community center, a pedestrian promenade, a lake observation deck, and the amphitheater renovations/additions. GFA dba UES performed construction materials testing and inspections.		<input checked="" 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 <b>Alberto Mercado, PE</b>		13. ROLE IN THIS CONTRACT Geotechnical Department Manager		14. YEARS EXPERIENCE	
				a. TOTAL 6	b. WITH CURRENT FIRM 6
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences – Delray Beach, FL					
16. EDUCATION (Degree and Specialization) BS, Civil Engineering, University of Central Florida			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer - FL #95703		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>a.</b>	<b>WTC Tamarac – Tamarac, FL</b>	<b>2021</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – UES was contracted by the City of Tamarac to perform geotechnical investigations that included 9 borings and exfiltration testing.		
<b>b.</b>	<b>STA-1W Refurbishments – Palm Beach County, FL</b>	<b>2022</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – UES was contracted to perform geotechnical evaluation that included demo and removal of ten CMP culverts (G-253 A-J) located in the South Florida Water Management District's (SFWMD) Stormwater Treatment Area 1 West (STA-1W).		
<b>c.</b>	<b>Proposed Lift Station - Hollywood, FL</b>	<b>2021</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – GFA dba UES performed a geotechnical evaluation for the construction of the new lift station.		
<b>d.</b>	<b>CSA12-WUD Project No 20-071 – Belle Glade, FL</b>	<b>2022</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – UES performed geotechnical evaluations for a Palm Beach County Water Utilities Department project that included utility adjustments for the City of Belle Glade road resurfacing project.		
<b>e.</b>	<b>Sunrise Municipal – Sunrise, FL</b>	<b>2021</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – Construction of a Five-story City Hall with associated site work, a three-story parking structure, a covered walkway connecting the new parking structure to the existing community center, a pedestrian promenade, a lake observation deck, and the amphitheater renovations/additions. GFA dba UES performed construction materials testing and inspections.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>David S. Lopez</b>	13. ROLE IN THIS CONTRACT Staff Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 2	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences (UES) – Delray Beach, FL			
16. EDUCATION (Degree and Specialization) BS, Civil Engineering, Florida International University		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>I-395/SR-836 Reconstruction Design-Build Project – Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes the design of a signature bridge, segmental bridges, and viaduct bridges supported on auger-cast pile foundations, with an estimated completion in fall 2024. Mr. Lopez currently serves as a geotechnical engineer overseeing bridge foundation, retaining wall, and MSE wall geotechnical report deliverables.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) <b>FDOT District 1, Sanibel Causeway Emergency Repairs Progressive Design-Build Project – Lee County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2023</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes providing permanent repairs due to the embankment washouts of the Sanibel Causeway due to Hurricane Ian. The project includes the design and installation of permanent steel sheet pile walls and king pile wall systems to replace the temporary repairs performed in 2022. Also, the project includes improvements to the roadway between bridges and permanent sheet pile walls. David serves as a geotechnical engineer overseeing aspects of the field exploration program and bridge and miscellaneous structures foundation geotechnical report deliverables.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) <b>Broward Co. Judicial Center Clerk of Court North Wing Relocation – Broward County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2023</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE This project involved reconfiguring the first floor of the North Wing (including a new ±8,000 SF second-floor structural slab) for the permanent relocation of the Clerk of Courts Felony Division. UES provided geotechnical services, including a Geotechnical Exploration with four SPT borings to depths of 30 feet below the existing site grade, as well as pile installation monitoring services. David coordinated included analyzed soils, and provided deep foundation recommendations for the proposed structure. He was also responsible for test pile monitoring, helical pile installation, and writing the pile installation certification letter.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) <b>Publix – Key Largo, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2021</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project consisted of the construction of a new Publix 60.10 Prototype Supermarket with an associated paved parking lot. UES served as a consultant to KIMCO Realty Corp. David was responsible for site reconnaissance, coordinating fieldwork, and providing deep foundation recommendations for the proposed structure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) <b>Eden River's Edge – Miami-Dade County, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project involved construction of a ±500,000 SF, 20-story structure, with levels 2-6 reserved for parking, and the remaining floors for residential use. UES provided geotechnical engineering services, including a Preliminary Geotechnical Exploration with three SPT borings to depths between 100 to 120 feet below the existing site grade and two exfiltration tests. UES provided foundation recommendations consisting of 18 and 24-inch precast concrete, driven piles. Mr. Lopez's responsibilities included site reconnaissance, soil analysis, and providing foundation recommendations.	<input checked="" 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 <b>Johana Conde</b>		13. ROLE IN THIS CONTRACT Staff Engineer		14. YEARS EXPERIENCE	
				a. TOTAL 2	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences (UES) – Delray Beach, FL					
16. EDUCATION (Degree and Specialization) BS, Civil Engineering, Florida Atlantic University			17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)					

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>a.</b>	<b>Publix - Wellington, FL</b>	<b>Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a consultant to Southeast Centers, LLC UES is providing geotechnical engineering and materials testing for a construction project at the Wellington Green shopping center. The intent is to demolish an existing retail/grocery supermarket, and replace the facility with a larger Publix store. Johana serves as Staff Engineer.		
<b>b.</b>	<b>Little League Field #1 – Boynton Beach, FL</b>	<b>2023</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a consultant to LTG Sports Turf One, LLC UES conducted geotechnical engineering for construction of a Little League baseball field. Johana served as Staff Engineer during UES' services, which involved percolation tests.		
<b>c.</b>	<b>The Pines at Westlake – Cutler Bay, FL</b>	<b>Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As a consultant to MINTO Communities Florida, UES is providing materials testing for site work construction efforts at the Pines at Westlake, a neighborhood of single-family homes. The community will feature 446 homesites. Johana serves as Staff Engineer.		
<b>d.</b>	<b>Emergency Design-Build Repairs for Hurricane Ian Sanibel Island Access – Sanibel Island, FL</b>	<b>2023</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As subconsultant to Kisinger, Campo and Associates, UES is providing materials testing for temporary and permanent emergency repairs at Sanibel Island. Johana serves at Staff Engineer.		
<b>e.</b>	<b>E6J53 SR-836/I-395 Reconstruction Design-Build – Miami, FL</b>	<b>Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The project includes the design of a signature bridge, segmental bridges, and viaduct bridges supported on auger-cast pile foundations with an estimated completion of fall 2024. Johana serves as Staff Engineer.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Frank Martinez</b>	13. ROLE IN THIS CONTRACT Quality Control Manager	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 19
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences (UES) – Miami, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Nuclear Safety Certification, FDOT Concrete Field Technician Level 1 and 2, FDOT Earthwork Construction Inspection Level 1 and 2, and FDOT Drilled Shaft Inspector, Asphalt Plant Level 1, Asphalt Paving Level 1 and 2, Radiation Safety Basic Gauge Operator, Pile Driving Inspector			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>a.</b>	<b>E6J53 SR-836/I-395 Reconstruction Design-Build (Signature Bridge) – Miami, FL</b>	<b>Ongoing</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Performed construction materials testing for the I-395/SR 836/I-95 Project is a partnership between the Florida Department of Transportation (FDOT) and the Miami-Dade Expressway Authority (MDX), with construction limits on State Road (SR) 836 beginning at NW 17 Avenue and continuing through the SR 836/I-395/I-95 (Midtown) Interchange to the MacArthur Causeway Bridge. The limits on I-95 are from NW 8 Street to NW 29 Street. This project includes enhancements to three major Miami corridors: I-395/SR 836/I-95.		
<b>b.</b>	<b>Biscayne Coastal Wetlands S-705 – Homestead, FL</b>	<b>2023</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm QC Manager – UES performed construction materials testing for this pump station restoration.		
<b>c.</b>	<b>E6M86 NE 203 St BTW SR 5/US-1 &amp; W Dixie HWY – Aventura, FL</b>	<b>2024</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm QC Manager – UES performed construction materials testing and contractor quality control for this FDOT roadway.		
<b>d.</b>	<b>Miami Beach Convention Center Renovation and Expansion – Miami Beach, FL</b>	<b>2024</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm QC Manager – UES was contracted by the City of Miami Beach to perform construction materials testing for this convention center renovation and expansion project.		
<b>e.</b>	<b>Indian River Lagoon South C-44 &amp; STA – Indiantown, FL</b>	<b>2021</b>	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm QC Manager –The C-44 Reservoir and Stormwater Treatment Area (STA) Project, Contract No. 2, captured runoff from the local basin and cleansed it through a settling process before releasing it to the C-44 canal and into the estuary on Florida’s east coast. This 3,500-acre reservoir is encircled by a 9.2-mile, 30-foot-high earthen embankment, its interior slope lined with soil cement. The project also included a reservoir discharge tower structure with a bridge and gates that fed the water into a distribution canal that was constructed to tie into the project’s STA cells. Construction was conducted through a series of 13 USACE funding packages.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME <b>Edwin Oviedo Granatty</b>	13. ROLE IN THIS CONTRACT Construction Services Department Manager	14. YEARS EXPERIENCE	
		a. TOTAL 5	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences (UES) – Miami, FL			
16. EDUCATION (Degree and Specialization) BS, Civil Engineering, Universidad Gran Mariscal de Ayacucho		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) ACI Concrete Transportation Construction Inspector; TIP/CSL; CTQP Concrete Paving – Level I; CTQP Auger Cast Pile Inspector; CTQP Concrete Field Technician – Level I CTQP Earthwork Construction Inspection - Levels 1 and 2; CTQP Pile Driving Inspection; CTQP QC Manager; FDOT Concrete Field Inspector Specification			

**19. RELEVANT PROJECTS**

a.	(1) TITLE AND LOCATION (City and State) <b>E6J53 SR-836/I-395 Reconstruction Design-Build (Signature Bridge) – Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE UES is performing construction materials testing for the I-395/SR 836/I-95 Project is a partnership between the Florida Department of Transportation (FDOT) and the Miami-Dade Expressway Authority (MDX), with construction limits on State Road (SR) 836 beginning at NW 17 Avenue and continuing through the SR 836/I-395/I-95 (Midtown) Interchange to the MacArthur Causeway Bridge. The limits on I-95 are from NW 8 Street to NW 29 Street. This project includes enhancements to three major Miami corridors: I-395/SR 836/I-95. Edwin serves as Construction Services Department Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) <b>E4S44-Broward I-95 Exp Lanes Phase 3C – Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2024</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE UES is providing Contractor Quality Control (CQC) services as subconsultant to Archer-Western deMoya JV. This effort is a Florida Department of Transportation (FDOT) project; thus construction and related services are occurring per all applicable FDOT manuals, memoranda and guidelines. Edwin serves as Construction Services Department Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) <b>Doral City Place 7 – Doral, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2024</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As subconsultant to Lincoln Property, UES is providing materials testing and inspections, including soil and concrete testing, special inspections, and threshold inspections. Edwin serves as Construction Services Department Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) <b>Symphony Park Hotel – Miami Beach, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>2022</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE As subconsultant to Ortega Construction Company, UES provided construction materials testing, including specialty testing. Edwin served as Construction Services Department Manager.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) <b>E6N08 Bridge Repair - Miami, FL</b>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES <b>Ongoing</b>	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE UES is providing Contractor Quality Control (CQC) services as subconsultant to Kiewit Infrastructure South Co. This effort is a Florida Department of Transportation (FDOT) project; thus construction and related services are occurring per all applicable FDOT manuals, memorandums and guidelines. Edwin serves as Construction Services Department Manager.	<input checked="" 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 <b>Dailymar Pacheco</b>	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE	
		a. TOTAL 2	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) Universal Engineering Sciences (UES) – Miami, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
<b>a.</b>	<b>E6J53 SR-836/I-395 Reconstruction Design-Build (Signature Bridge) – Miami, FL</b>	Ongoing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – The I-395/SR 836/I-95 Project is a partnership between the Florida Department of Transportation (FDOT) and the Miami-Dade Expressway Authority (MDX), with construction limits on State Road (SR) 836 beginning at NW 17 Avenue and continuing through the SR 836/I-395/I-95 (Midtown) Interchange to the MacArthur Causeway Bridge. The limits on I-95 are from NW 8 Street to NW 29 Street. This project includes enhancements to three major Miami corridors: I-395/SR 836/I-95.		
<b>b.</b>	<b>E4S44-Broward I-95 Exp Lanes Phase 3C – Daytona Beach, FL</b>	2024	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – UES performed construction materials testing and contractor quality control for this FDOT roadway project.		
<b>c.</b>	<b>Cybrarium – Homestead, FL</b>	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – The City of Homestead contracted UES to perform construction materials testing for this public library.		
<b>d.</b>	<b>Pembroke Pines, New Raw Water Supply Line – Pembroke Pines, FL</b>	2024	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – UES performed construction materials testing and quality control for this new water supply line.		
<b>e.</b>	<b>FPL Miami-Dade Clean Water Recovery Center – Homestead, FL</b>	2023	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Department Manager – UES performed construction materials testing for this FPL project that included 45,000 LF of pipe.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  <b>Manuel G. Vera Jr., PSM</b>	13. ROLE IN THIS CONTRACT  Principal-In-Charge	14. YEARS EXPERIENCE	
		a. TOTAL 41	b. WITH CURRENT FIRM 41
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Manuel G. Vera &amp; Associates, Inc. (Miami, FL)</b>			
16. EDUCATION <i>(Degree and Specialization)</i> Bachelors of Science, Legal Studies, Nova Southeastern University, 1994  Associates of Science, Land Surveying, Miami Dade College, 1988		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Surveyor & Mapper, Florida License No.: LS5291, 1994	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Professional Surveying and Mapping Society			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
City of Miami, Miscellaneous Surveying and Mapping Services (No. 16-17-027)	2018 - Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE a. Task driven contract performing miscellaneous surveying and mapping services. Projects under this contract include a Boundary Survey for Sewell Park; Boundary Survey for Riverside Park; Boundary Survey for Coral Gate Park; Boundary Survey for Fern Isle Park; and Boundary Survey for Lemon Park. City of Miami. Contract Amount: \$250,000 Role: Principal-In-Charge.		
<input checked="" type="checkbox"/> Check if project performed with current firm		
Transit Lehman Rail Yard on Curve 41-Topographic Survey, Miami-Dade County	02/2022 - 12/2022	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE b. MG V was responsible for preparing a Design Survey for the Pre-Construction and Post-Construction of Curve 41 at the Lehman Yard Maintenance Facility. MG V established Horizontal and Vertical control. MG V prepared a Topographic Survey and DTM / 3D-Model using a combination of Static LiDAR High-Definition 3D Laser Scanning Technology, as well as conventional survey methods (EFB / GPS) within the project limits. The survey extended 10 feet in each direction from the center of "curve 41" rail. Contract Fee: \$10,017.51 Role: Principal-In-Charge		
<input checked="" type="checkbox"/> Check if project performed with current firm		
FDOT District 6, Districtwide Miscellaneous Location Survey Consultant (C-AF57), Districtwide	2021- Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE c. Task driven contract performing miscellaneous Location Surveys in Miami-Dade and Monroe Counties, and all municipalities within the district. MG V is responsible for all necessary professional surveying and mapping services to support topographic and mapping projects. Most of these services utilize a combination of mobile surveying and mapping technologies with GNSS and conventional survey technologies for ground control, quality assurance, and supplementary topographic map data when necessary. Contract Fee: \$1.5M Role: Principal-In-Charge		
<input checked="" type="checkbox"/> Check if project performed with current firm		
FDOT District 6, Districtwide Right of Way Monumentation Consultant Contract (C-A146), Districtwide	2019 - Ongoing	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE d. Task driven contract performing ROW Monumentation & ROW Monumentation Mapping services in Miami-Dade and Monroe Counties, and all municipalities within the district. These services include, but are not limited to the preparation of ROW Control Surveys, ROW Maps, Boundary Surveys, Title Search Reviews, and ROW Monumentation to include annotation and recordation of ROW Maps once the Monumentation is complete. Contract Fee: \$1.5M. Role: Principal-In-Charge		
<input checked="" type="checkbox"/> Check if project performed with current firm		
City of Doral Bus Benches City of Doral, Florida	07/2022 - 08/2022	N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE e. MG V was responsible for providing survey services for 10 bus stops located in the City of Doral, Florida. The scope of work included Horizontal and Vertical control. Additionally, MG V was responsible for preparing survey baselines and RW lines, topographic and digital terrain 3D models (DTM) for 8 bus bench sites. A drainage survey was performed for each bus site as applicable. Sectional/grant survey subdivision locations were determined, and work zone safety measures were implemented. Contract Fee: \$33,650.00 Role: Principal-In-Charge.		
<input checked="" 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  <b>Mark R. Sowers, PSM</b>	13. ROLE IN THIS CONTRACT  Chief Surveyor and Mapper	14. YEARS EXPERIENCE	
		a. TOTAL 36	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>Manuel G. Vera &amp; Associates, Inc. (Jupiter, FL)</b>			
16. EDUCATION <i>(Degree and Specialization)</i> Bachelor of Science, Land Surveying, University of Florida, 1988		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Surveyor & Mapper, Florida License No.: LS5266, 1993	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Professional Surveying and Mapping Society			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
<b>City of Miami, Miscellaneous Surveying and Mapping Services (No. 16-17-027)</b>	PROFESSIONAL SERVICES 2018 - Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> a. Task driven contract performing miscellaneous surveying and mapping services. Projects under this contract include a Boundary Survey for Sewell Park; Boundary Survey for Riverside Park; Boundary Survey for Coral Gate Park; Boundary Survey for Fern Isle Park; and Boundary Survey for Lemon Park. City of Miami. Contract Amount: \$250,000 Role: Chief Surveyor and Mapper		
<b>Miami Beach High School Pedestrian, Miami-Dade County</b>	PROFESSIONAL SERVICES 09/2022 - 01/2023	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> b. MGV was responsible for providing Survey and Subsurface Utility Location services. The scope of services included Horizontal and Vertical Control, Survey Baseline and ROW Topographic Survey & DTM 3D-Modeling which was performed from ROW to ROW within survey limits. MGV also provided Utility Designation and Location services. A drainage survey was conducted. Additionally, Bridge Survey, Sectional/Grant Survey, and Subdivision Location services were provided, along with Work Zone Safety. Contract Amount: \$66,889.17 Role: Chief Surveyor and Mapper		
<b>FDOT District 6, Districtwide Miscellaneous Location Survey Consultant (C-AF57), Districtwide</b>	PROFESSIONAL SERVICES 2021- Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> c. Task driven contract performing miscellaneous Location Surveys in Miami-Dade and Monroe Counties, and all municipalities within the district. MGV is responsible for all necessary professional surveying and mapping services to support topographic and mapping projects. Most of these services utilize a combination of mobile surveying and mapping technologies with GNSS and conventional survey technologies for ground control, quality assurance, and supplementary topographic map data when necessary. Contract Fee: \$1.5M Role: Chief Surveyor and Mapper		
<b>Village of Pinecrest, Kendall Drive Shared Use Path Miami, FL</b>	PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> d. MGV provided design survey and subsurface utility designating services. This included horizontal & vertical control, ROW and topographic survey . They located all above-ground features and improvements, utilities, drainage structures, and the bus driveway under the existing station garage. MGV also conducted utility designates and scans for up to 4 areas, followed by up to 25 utility locates as per the design team's review. Additionally, they performed a drainage survey, identified structure details, and provided sectional/grant survey and subdivision locations, work zone safety measures, and project network control sheets. Contract Fee: \$ \$66,021.40 Role: Sr. Surveyor & Mapper		
<b>FDOT District 4, Districtwide Continuing Services for Survey, Mapping, and SUE (C-AG53), Districtwide</b>	PROFESSIONAL SERVICES 2021 - Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <span style="float:right;"><input checked="" type="checkbox"/> Check if project performed with current firm</span> e. Task driven contract performing miscellaneous Survey and Mapping services in Broward, Indian River, Martin, Palm Beach, and St. Lucie Counties, and all municipalities within the district. Contract Fee: various Role: Chief Surveyor and Mapper.		

**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

*(Complete one Section E for each key person.)*

12. NAME  Eugenio S. Lopez	13. ROLE IN THIS CONTRACT  Traffic Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 20	b. WITH CURRENT FIRM 8
15. FIRM NAME AND LOCATION <i>(City and State)</i> Choice Engineering Consultants, Inc <i>(Miami, FL)</i>			
16. EDUCATION <i>(Degree and Specialization)</i> BS in Civil Engineering MS in Civil Engineering <i>(Transportation Engineering)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Professional Engineer <i>(FL)</i> Prof Traffic Operations Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i> Traffic Operations Safety Studies <i>(Dade &amp; Monroe, FL)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016 - Present	CONSTRUCTION <i>(If applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager performing safety and ped/bike studies, and office/field based fatal crash reviews, Road Safety Audits, Signal Warrant Analysis, Qualitative Analysis reports, Lef-Turn Signal Phase Warrants, review and follow up studies for the Skid Hazard Program, Speed Studies, Intersection Control Evaluation, Speed Calming & Ped Safety Studies.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Traffic Operations Studies <i>(Miami, FL)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019 - Present	CONSTRUCTION <i>(If applicable)</i>
b. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Engineer performing pedestrian midblock crossing evaluations, exclusive pedestrian signal phasing evaluation, bicyclist safety assessment, data collection (72hr counts for vehicle volume and speed and Turning Movement counts), development of improvement sketches, and coordinating with City of Miami Beach for study developments.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Pedestrian and Bicycle Safety Program Consultant <i>(Dade &amp; Monroe, FL)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019 - Present	CONSTRUCTION <i>(If applicable)</i>
c. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager performing engineering studies for pedestrian/bicycle improvements, such as midblock crossing evaluations and conceptual designs. Studies include existing conditions, traffic data collection, field reviews, speed data collection, pedestrian counts, crash analysis, operational analysis to determine practical and cost-effective solutions.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Traffic Engineering and Planning Studies <i>(Miami-Dade, FL)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2019-Present	CONSTRUCTION <i>(If applicable)</i>
d. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager performing traffic studies to measure operational benefits and impact of opening bridge over I-75. Scope includes traffic data collection, traffic percent growth evaluation, origin-destination data, safety/operational field review assessments, existing/future operational analyses, planning level roadway segment analysis, etc.	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION <i>(City and State)</i> Coconut Grove Traffic Calming Study <i>(Miami, FL)</i>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES 2022 - Present	CONSTRUCTION <i>(If applicable)</i>
e. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Senior Engineer performing a neighborhood traffic calming study to assess the magnitude of cut-through and speeding traffic in the Coconut Grove area. Scope of work includes stakeholder meetings, collection of 24hr vehicle counts and speed data, coordination with various county offices, and development of two neighborhood calming scenarios.	<input checked="" type="checkbox"/> Check if project performed with current firm	

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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; font-size: 24px; font-weight: bold;">1</p>
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21. TITLE AND LOCATION (City and State) <b>SR-836/I-395/I-95 D/B Reconstruction</b> <b>Miami-Dade County, Florida</b>	22. YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">PROFESSIONAL SERVICES</td> <td style="width: 50%; padding: 5px;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center; padding: 5px;"><b>2019</b></td> <td style="text-align: center; padding: 5px;"><b>On-going</b></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	<b>2019</b>	<b>On-going</b>
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)				
<b>2019</b>	<b>On-going</b>				

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>FDOT District 6 &amp; MDX</b>	b. POINT OF CONTACT <b>Rami Nassar, PE</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>305.640.7400</b>
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**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)**

The I-395/SR 836/I-95 Design-Build Project is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95, and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard, and a 55-acre Heritage Trail underneath I-395 which will forever connect Downtown Miami and will revitalize the Overtown community.



We are working closely together with the Archer Western – de Moya Group JV Team to manage and oversee all design elements throughout the three corridors for this \$838 million construction effort. Our staff will additionally be responsible for the maintenance of traffic on all corridors and Structures work throughout the project.

The improvements along SR 836 begin west of NW 17th Ave. and end at the I-95 interchange. A new double-decker bridge will be erected over SR 836 that will begin near NW 17th Ave., by the Marlins Stadium, and continue east to MacArthur Causeway bypassing I-95 providing a direct connection to Miami Beach and Downtown Miami, dramatically improving traffic flow! The double-decker bridge will provide spectacular views of Miami including the skyline as you cross the Miami River over 100 feet above ground. The project includes a spectacular 1,025-foot iconic Signature Bridge that will span over Biscayne Boulevard and features six arches springing from one central arch thrust block – a first for bridge design. The tallest arch reaches 330 feet in height. The bridge deck is suspended by steel cables that traffic will drive through as they arrive or depart Miami Beach.

The 395 project is a transformative and extraordinary infrastructure project that will make history, while improving mobility and safety.

**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	<b>Ardurra Group, Inc.</b>	<b>Miami, FL</b>	<b>Design Management, Temporary Traffic Control Plans, Misc. Structures Design</b>
b.	<b>Universal Engineering Sciences, Inc.</b>	<b>Miami, FL</b>	<b>Geotechnical</b>
c.			
d.			

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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 <b>2</b>
21. TITLE AND LOCATION (City and State) <b>Alhambra Circle Pavement Markings/ Coral Gables, Florida</b>		22. YEAR COMPLETED PROFESSIONAL SERVICES <b>2023</b>
		CONSTRUCTION (If applicable) <b>2023</b>

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <b>City of Coral Gables PW Department</b>	b. POINT OF CONTACT <b>Melissa De Zayas</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>786.494.0996</b>

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

Ardurra Group, Inc., formerly known as 300 Engineering, LLC - was contracted by the City of Coral Gables Public Works Department to provide design services for the Alhambra Circle Pavement Markings project. The project area is along Alhambra Circle from Le Juene Rd to Segovia Circle, approximately 1,600 LF in length. The Water and Sewer Department recently installed a new water main within the project area disturbing the existing pavement. The City of Coral Gables took initiative from the water main's pavement restoration and performed a study to determine if any additional design services would be beneficial. Existing conditions prior to this project included a 12-foot driving lane with a 4-foot-wide bike lane. This narrow bike lane posed a safety hazard for bicyclist within the project area due to its characteristic high traffic.



Ardurra provided design services for the widening of the existing bike lane from 4-feet to 5-feet wide, in addition to reducing the over-sized travel lane to compensate for the wider bike lane. Design services included a design drawing set from a topographic survey showing the limits of asphalt restorations, pavement markings design and a typical cross section. In addition, a quantity take-off table was provided with all proposed design features which was used for construction estimating and execution.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	<b>Ardurra Group, Inc.</b>	<b>Miami, FL</b>	<b>Asphalt restoration and pavement markings</b>
b.			
c.			
d.			



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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  <div style="text-align: center; font-size: 24pt; font-weight: bold;">3</div>
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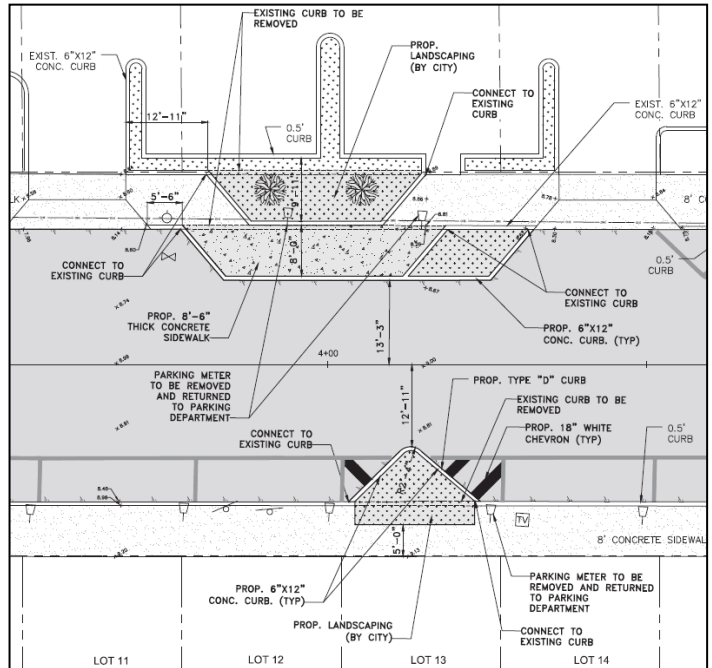
21. TITLE AND LOCATION (City and State) <b>Valencia Avenue Improvement</b> <b>Coral Gables, FL</b>	22. YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES <b>2023</b></td> <td style="width: 50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable) <b>2023</b></td> </tr> </table>	PROFESSIONAL SERVICES <b>2023</b>	CONSTRUCTION (If applicable) <b>2023</b>
PROFESSIONAL SERVICES <b>2023</b>	CONSTRUCTION (If applicable) <b>2023</b>		

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <b>City of Coral Gables PW Dept.</b>	b. POINT OF CONTACT <b>Melissa De Zayas</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>786.494.0996</b>

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

Ardurra Group, Inc., formerly known as 300 Engineering Group, LLC was contracted by the City of Coral Gables Public Works Department (The City) to provide design services for the Valencia Avenue Improvement project. The project area is along Valencia Ave between Le Jeune Rd and Hernando St. for approximately 300 LF in length.

Ardurra provided signed and sealed design drawings for the construction of two (2) bulb-outs within the existing roadway, in addition to shifting and re-constructing the existing sidewalk. The bulb-outs provided a dedicated parallel parking space along Valencia Ave, in addition to providing a green planter area. A portion of the existing sidewalk was reconstructed to provide adequate ADA compliance to detour pedestrian traffic around a landscape planter area. Project also included the design of pavement striping and markings for the proposed improvements, including parking space delineation. Construction details related to the proposed design features were also developed and included in the design drawings. In addition, a quantity take-off table was provided with all proposed design features which was used for construction estimating and execution.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	<b>Ardurra Group, Inc.</b>	<b>Miami, FL</b>	<b>Design services for construction of sidewalk improvements, roadway bulb-outs and pavement markings</b>
b.			
c.			
d.			



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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  <div style="text-align: center; font-size: 24pt; font-weight: bold;">4</div>
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21. TITLE AND LOCATION (City and State) <b>Roadway and Stormwater Improvements for Sunrise Harbor Cul-de-sac Coral Gables, FL</b>	22. YEAR COMPLETED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES <b>2019</b></td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If applicable) <b>2019</b></td> </tr> </table>	PROFESSIONAL SERVICES <b>2019</b>	CONSTRUCTION (If applicable) <b>2019</b>
PROFESSIONAL SERVICES <b>2019</b>	CONSTRUCTION (If applicable) <b>2019</b>		

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <b>City of Coral Gables</b>	b. POINT OF CONTACT <b>Hermes Diaz, PE</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>305.460.5037</b>

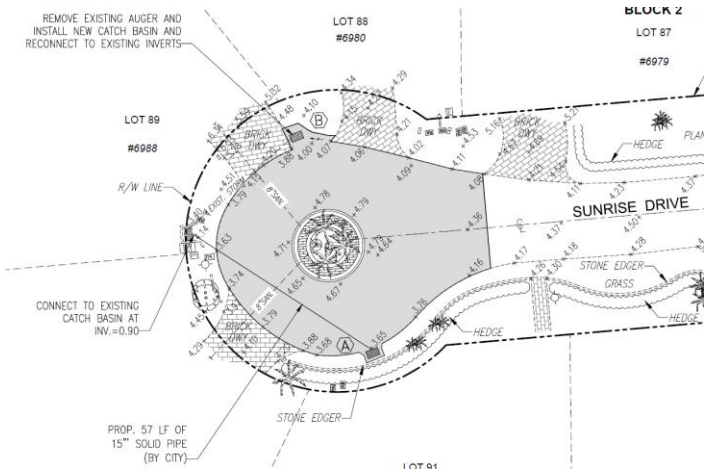
**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)**

The City of Coral Gables is a coastal urban city with heavy vehicular traffic around residential areas. The City is currently experiencing high levels of water intrusion along these coastal areas, specifically in low lying areas. The City has been implementing stormwater mitigation measures to provide further protection for residents from flooded streets and sidewalks. In conjunction with these stormwater improvements, the City will also be implementing roadway improvements to better handle the stormwater runoff to prevent and stormwater ponding and flooding.

Ardurra Group, Inc., formerly known as 300 Engineering, was tasked with performing the analysis and design of stormwater and roadway improvements for a residential area within the City of Coral Gables, Sunrise Harbor. Within Sunrise Harbor, there are four dead-end residential streets with cul-de-sacs are the southernmost tip. Each of these streets is its own peninsula as both sides of the street face the Coral Gables Waterway canals. With an average NGVD elevation of these streets around +/-3.50', and an average water table elevation around +/-2.00', residents in these areas experience constant flooding from stormwater runoff, and seawater intrusion.

The existing system included a deteriorating auger inlet connected to an adjacent catch basin which discharges to Biscayne Bay. Due to the high-water table and low-lying ground elevation, water from Biscayne Bay often fills this system leaving little capacity for stormwater runoff. In addition to the above-mentioned issues, there are cases where no inlets exist nor sufficient grading to channel runoff from opposites sides of the street to the main system. In these cases, new catch basins were designed and connected to the existing stormwater system.

In addition to stormwater improvements, Ardurra was tasked with improving the roadway conditions related to the cul-de-sac and its round-a-bout island. Currently, delivery, landscape, and City trucks experience issues maneuvering around the round-a-bout with its given geometry, and as a result, often mount the curbed island, damaging the curb and landscape. To alleviate this issue, Ardurra modified the existing round-a-bout's geometry for better sizing and placement, 5,000 psi reinforced curbs, brick pavers, and landscaping. Ardurra performed a swept path analysis of these cul-de-sacs using a 20' long delivery truck via the AASHTO vehicle library. The results of these analysis were used to design the round-a-bout where it would not interfere with the swept path projections.



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	<b>Ardurra Group, Inc.</b>	<b>Miami, FL</b>	<b>Roadway design, stormwater design</b>
b.			
c.			

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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  <div style="text-align: center; font-size: 24px;"><b>5</b></div>
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21. TITLE AND LOCATION (City and State) <b>CEI Services &amp; LAP Administration for the NW 82nd St &amp; NW 114th Ave Intersection Signalization Project</b> <b>Doral, FL</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES  <div style="text-align: center; font-weight: bold;">2022</div>	CONSTRUCTION (If applicable)  <div style="text-align: center; font-weight: bold;">2022</div>

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER <b>City of Doral – Public Works Department</b>	b. POINT OF CONTACT <b>Julio Amoedo</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>305.593.6740 ext 6018</b>
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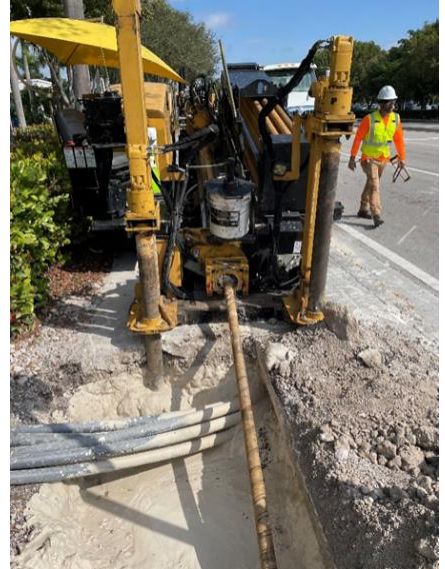
**24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)**

The City of Doral improved the intersection between NW 82nd St and NW 114th Ave, adjacent to Legacy Park. The project consisted of a new signalized intersection, roadway reconfiguration, curbed, sidewalks, mast arms and video detectors, drainage pavement restoration among many others. This will provide a safe crossing intersection for pedestrians that wish to get to the Doral Legacy Park and the surrounding residential communities. 300 Engineering provided CEI Services to the City of Doral, including inspection of MOT, preparation of Daily Reports, Verification of Material Quantities, Review of Payments, Review of Claims among other services.

In addition, The City has obtained funds from the Florida Department of Transportation (FDOT) (Agreement FPN: 447310-1-54-01) through the Local Transportation Projects (LAP) program. 300 Engineering provided grant management services to the City of Doral.

Services performed included, but were not limited to:

- Review and acceptance of Pay Requisitions
- Equipment Tests and Systems Start-up
- Monitor adherence to Safety Protocols
- Document Control
- Quality Control
- Proceeding with Disputed Work
- Monitoring of Maintenance of Traffic (MOT)
- Preparation of Project Punch List
- Substantial Completion
- Project Inspection
- Contractor Schedule Review
- Pre-Construction Meetings
- Weekly Coordination Progress Meetings
- Daily Reports
- Photographic Records and Project Documentation
- Adherence to Construction Documents
- Shop Drawings Submittals/Reviews coordination
- Change Order Management



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>Ardurra Group, Inc.</b>	(2) FIRM LOCATION (City and State) <b>Miami, FL</b>	(3) ROLE <b>CEI Services &amp; LAP Administration</b>
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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  <div style="text-align: center; font-size: 24pt; font-weight: bold;">6</div>
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21. TITLE AND LOCATION (City and State) <b>Project Development and Environment (PD&amp;E) Study for SR 836 SW Extension from NW 137 Ave to SW 136 Street I Miami, FL*</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES  <div style="text-align: center; font-weight: bold;">2021</div>	CONSTRUCTION (If applicable)  <div style="text-align: center; font-weight: bold;">N/A</div>

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER <b>Miami-Dade Expressway Authority</b>	b. POINT OF CONTACT <b>Mayra Diaz</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>305.637.3277</b>

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

This study proposes a new transportation corridor extending SR 836 in the southwest region of Miami-Dade County. The project is envisioned as a 4-lane limited access, tolled facility that will provide better mobility, connectivity and enhanced accessibility. Several alternatives in different corridors were considered and evaluated through the Alternative Corridor Evaluation (ACE) process. The project is a complex mosaic of natural, cultural and community features. A comprehensive Public Involvement Plan (PIP) was carried out to involve concerned stakeholders.

The PIP included the following techniques: 1) Environmental Forum (agencies and environmental groups), 2) Citizens Advisory Committee, 3) Cultural Resource Committee, 4) Scoping meeting, 5) Corridor Workshop, 6) bi-lingual (Spanish) collaterals and 7) website updates.

\*Indicates project experience with a different firm



**25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT**

a.	(1) FIRM NAME <b>Ardurra Group, Inc.</b>	(2) FIRM LOCATION (City and State) <b>Miami, FL</b>	(3) ROLE <b>PD&amp;E Management, Preliminary Engineering, Environmental Analysis, Public Involvement Plan</b>
b.	.		
c.			
d.			



<p align="center"><b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b>  <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i></p>	<p>20. EXAMPLE PROJECT KEY NUMBER <b>7</b></p>
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<p>21. TITLE AND LOCATION (City and State) <b>I-75 at SR 951 Interchange Design Build Project (Collier County)</b></p>	<p align="center">22. YEAR COMPLETED</p>	
	<p>PROFESSIONAL SERVICES <b>2024</b></p>	<p>CONSTRUCTION (If applicable) <b>N/A</b></p>

23. PROJECT OWNER'S INFORMATION		
<p>a. PROJECT OWNER <b>FDOT District 1</b></p>	<p>b. POINT OF CONTACT <b>Juan Carrillo</b></p>	<p>c. POINT OF CONTACT TELEPHONE NUMBER <b>941.708.4446</b></p>

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

This project has been envisioned for many years to provide safety and mobility improvements to this vital interchange. Recent growth in the area led to several previous improvements, including the widening of Collier Blvd. to eight lanes and operational improvements at the I-75 interchange and the SR 84 intersection. The RFP concept, approved by FHWA, prioritizes the large volumes to/from Marco Island and Ft. Myers/Tampa by bridging the SR 84 intersection. The de Moya / PHD team presented several Alternative Technical Concepts (ATC's) that reduced overall cost, enhanced safety, improved mobility and reduced overall construction duration. Our team's bid was approximately 20% lower than the 2nd place team.



*Key features include:*

- Ramp A1: Grade separation of SB I-75 to SB Collier Blvd. over SR 84
- Ramp C2: Grade separation of NB Collier Blvd. to NB I-75 over SR 84 and a barrier separated loop ramp under I75
- Ramp A3: New loop ramp for SB Collier Blvd. to SB I-75 to replace the at grade left-turn.

Ardurra is responsible for the overall development of Interchange Modification Report (IMR) Re-evaluation triggered by the interchange layout changes considered in the Design-Build Concept (ATC). Tasks ranged from preparation the scope of work and the hour estimate, to preparation of the Methodology Letter of Understanding (MLOU) and IMR Re-evaluation Report. Tasks related to traffic engineering encompassed review of Travel Demand Forecasting results, and development of Traffic Operational Analysis for AM and PM peak hours along the limited access facility using the Highway Capacity Software (HCS).

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	<p>(1) FIRM NAME <b>Ardurra Group, Inc.</b></p>	<p>(2) FIRM LOCATION (City and State) <b>Miami, FL</b></p>	<p>(3) ROLE <b>Design Consultant (Roadway, Signing and Pavement Markings, Lighting, Structures, Signalization, Drainage, MOT)</b></p>
b.	<p>(1) FIRM NAME .</p>	<p>(2) FIRM LOCATION (City and State)</p>	<p>(3) ROLE</p>
c.	<p>(1) FIRM NAME</p>	<p>(2) FIRM LOCATION (City and State)</p>	<p>(3) ROLE</p>
d.	<p>(1) FIRM NAME</p>	<p>(2) FIRM LOCATION (City and State)</p>	<p>(3) ROLE</p>



<b>F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT</b> <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  <div style="text-align: center; font-size: 24px; font-weight: bold;">8</div>
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21. TITLE AND LOCATION (City and State) <b>SR-9/I-95 from South of SR-870/Commercial Blvd to North of Cypress Creek Road*</b>	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES  <div style="text-align: center; font-weight: bold;">2019</div>	CONSTRUCTION (If applicable)  <div style="text-align: center; font-weight: bold;">N/A</div>

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER <b>FDOT District 4</b>	b. POINT OF CONTACT <b>Anson Sonnett, PE</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>954.777.4474</b>
--	---	---

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

Project Manager for this study to increase capacity on I-95, the interchanges at Commercial Boulevard and Cypress Creek Road, and the adjacent intersections to both interchanges. The project was evaluated to improve safety and accessibility within the study area, including access to I-95 and the adjacent arterial intersections. Secondary considerations for the purpose and need of this project include system linkage, modal interrelationships, transportation demand, social demands and economic development, evacuation, coordination with adjacent projects and building consensus via Public Involvement. The improvements proposed as part of this project complement the I-95 Express Lanes improvements with the addition of auxiliary lanes in both the northbound and southbound directions. Key components of the study included coordination with the Park and Ride facility to facilitate ingress/egress and incorporate transit needs.

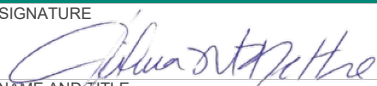


\*Indicates project experience with a different firm

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME <b>Ardurra Group, Inc.</b>	(2) FIRM LOCATION (City and State) <b>Miami, FL</b>	(3) ROLE <b>PD&amp;E Management (led Conceptual Design, Environmental Analysis and Public Involvement).</b>
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



ARCHITECT-ENGINEER QUALIFICATIONS					1. SOLICITATION NUMBER (If any)	
PART II - GENERAL QUALIFICATIONS						
(If a firm has branch offices, complete for each specific branch office seeking work.)						
2a. FIRM (OR BRANCH OFFICE) NAME Ardurra Group, Inc.				3. YEAR ESTABLISHED 2021		4. UNIQUE ENTITY IDENTIFIER KDJLJNJ742G43
2b. STREET 8600 NW 17 <sup>th</sup> Street, Suite 200				5. OWNERSHIP		
2c. CITY Doral		2d. STATE FL	2e. ZIP CODE 33126		a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE Silvia Beltre, PE				b. SMALL BUSINESS STATUS N/A		
6b. TELEPHONE NUMBER 305.546.9990		6c. E-MAIL ADDRESS sbeltre@ardurra.com		7. NAME OF FIRM (If block 2a is a branch office). Ardurra Group, Inc.		
8a. FORMER FIRM NAME(S) (If any) Pevida Highway Designers, LLC				8b. YR. ESTABLISHED 2016		8c. UNIQUE ENTITY IDENTIFIER 09-298-1521
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
		(1) FIRM	(2) Branch Office			
02	Administrative	221	15	B02	Bridges	7
06	Architect	4		C07	Coastal Engineering	4
08	CADD Technician	76	6	T03	Traffic & Transportation Engineering	7
10	Chemical engineers	13		C15	Construction Mgmt	5
12	Civil Engineer	262		D02	Dams (Earth, Rock, Dikes, Levees)	4
13	Communications Engineer/ITS	1		D03	Desalination	3
15	Construction Inspector/Manager	88	5	D08	Dredging, Studies and Design	3
21	Electrical Engineer /Instrumentation	10	3	E01	Ecological Investigations	3
23	Environmental Engineer	40		E02	Educational Facilities	2
24	Environmental Scientist	29	1	E09	Environmental Impact Studies	7
32	Hydraulic Engineer	6		H01	Harbors: Jetties; Piers; Ship Terminals	2
34	Hydrologists	15		E03	Electrical Studies & Design	1
38	Land Surveyor	32		H07	Highways, Streets & Parking Lots	8
39	Landscape Architect	5		H09	Hospitals & Medical Facilities	2
42	Mechanical Engineer	25		H11	Housing	6
47	Planner: Urban/Regional	21		I01	Industrial Buildings	3
48	Project Manager	131	5	I03	Industrial Waste Treatment	1
52	Sanitary Engineer	50		I06	Irrigation; Drainage	5
57	Structural Engineer	16	9	L01	Medical Research Facilities	2
58	Technical/Analyst/Specifications	50	1	L02	Land Surveying	8
60	Transportation Engineer	115	17	L03	Landscape Architecture	2
62	Water Resources Engineer	57	30	M01	Mapping Systems	2
18	Cost Engineer/Estimator	2		R03	Railroad; Rapid Transit	6
				P05	Planning (Community; Reg. Area)	2
	Aviation Engineer	20		P04	Pipelines	4
	Field Representatives	40		P05	Regional Planning	4
	Surveying Crew & Technician	104		R04	Recreational Facilities (Parks, Marinas, etc.)	3
	GIS Specialist	7		R06	Rehabilitation (Buildings, Structures)	3
	Aquatic Engineer	6		R11	Rivers; Canals; Waterways; Flood Control	6
	Emergency Management	13		S04	Sewage Collection; Treatment; Disposal	7
				S07	Solid Waste; Incineration; Landfill	6
				S09	Structural Design; Specialty Structures	4
				S10	Surveying; Platting; Mapping	7
				S13	Stormwater	4
				T04	Topographic Surveying & Mapping	7
				W02	Water Resources; Hydrology	6
				W03	Water Supply, Treatment & Distribution	9
				U03	Utilities	5
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	8	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						
a. SIGNATURE 					b. DATE 3.7.2024	
c. NAME AND TITLE Silvia Beltre, PE						

## H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.



A locally based ENR Top 500 engineering firm that focuses on providing innovative transportation engineering solutions that improve quality, save costs, reduce construction duration, and minimize traffic delay, reducing overall impacts to the traveling public. We are a specialized and very dynamic firm that thrives on innovations and thinking outside the box. We specialize in providing multi-discipline consulting services to municipalities and agencies for more than 46 years. Our diverse experience and expertise span the entire project delivery cycle. We can take transportation projects from concept to reality and have the expertise in all facets of the project delivery process including transportation planning, traffic engineering, Project Development and Environment (PD&E) studies, final design (roadway, structures, drainage, lighting signalization, Intelligent Transportation Systems, and more). ARDURRA's Transportation team offers capabilities ranging from Vision Zero initiatives, safety, complete streets and resurfacing designs to complex multilevel interchanges and urban arterial widening and reconstruction projects. We like to inspire and create. We understand growth, the need for transportation infrastructure projects and the need to move people efficiently and effectively. **THINK BIG!!!**

### Program Management

- Program Management/Project Management
- Risk Analysis
- Grant Support
- Local Agency Program (LAP) Support
- Technical Support in Scheduling, Geographic Information System, and 3D Modeling/Visualization
- National Environmental Policy Act (NEPA) Support in all Phases of Project Delivery
- Public and Agency Outreach
- Drone Capabilities

### Transportation Planning / Traffic Engineering and PD&E Services

- Vision Zero
- Comprehensive Master Planning
- Review/support of Traffic Impact Studies, Site Plans and Development of Regional Impacts
- Multimodal Area Studies
- Traffic Studies
- Interchange Access Requests and Reevaluations
- Scoping Reports
- Traffic Calming/Complete Streets
- Advanced Traffic Management Systems
- Automated Travel Information Systems
- Corridor Studies
- Alternative Corridor Evaluation (ACE) Studies
- PD&E Studies

### Design/Design Build Services

- Highway, Maintenance of Traffic, Structures, Drainage, Signing & Pavement Marking, Signals, ITS, and Lighting
- Permitting and Environmental Support
- Design & Design-Build: Serve as Prime Consultant or Sub-consultant
- Specialize in Traffic Calming, Complete Streets, Resurfacing, Arterial Widening and Reconstruction, Interchanges, Major/Complex Multi-Level Interchanges



**Contract Administration/Construction Engineering Inspection Services**

- Project Controls
- Asset Management
- RFP Development for Alternative Delivery and provide support during the procurement phase
- Provide Technical Support during the Pre-Bid Phase of a Design Build Project.
- Contractors can hire Ardurra to lead the design team, assist on Alternative Technical Concepts (ATC) development and assist with Technical and Price Proposals.
  - **Agency Owners:** Evaluate Alternatives, Identify Risk Items, Develop RFP Design Criteria, & Support FDOT during Procurement Phase
  - **Highway Contractors:** Represent Contractor / Direct Design Team, Lead ATC Development, & Technical Proposal Production

**Value Engineering Services**

- Develop solutions that focus on quality, cost &/or time savings
- Applies to Design Build and Design-Bid-Build jobs
- Emphasize Value of Ideas NOT volume of production
  - **Emphasis on Quality Design Solutions:** Improve Traffic Performance, Enhance Geometric Alignments, & Optimize Material Resources & Construction Sequencing
  - Reduce Cost: Short Term & Long-Term Maintenance
  - **Reduce Construction Duration :** Alternative MOT & Simplify Construction

**Increased our staff tremendously in the past years... and we are still growing!**  
**THINK BIG!!!**



**I. AUTHORIZED REPRESENTATIVE**  
The foregoing is a statement of facts.

31. SIGNATURE

33. NAME AND TITLE

**Silvia Beltre, PE – Project Manager**

32. DATE

3.14.2024

## 1.7 Minimum Qualification Requirements

### Request for Qualifications (RFQ) No. 2024-007

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The following represent the minimum qualification requirements for a Proposer to be deemed responsive by the City, and Proposer shall satisfy each of the following minimum requirements cited below. Each of these minimum qualifications must be addressed in detail in its submittal to determine Proposer's responsiveness. Failure to meet each of the following qualification requirements, and/or failure to provide sufficient detail and/or documentation in its submittal to determine responsiveness by the City, will result in the submittal being deemed non-responsive. Minimum qualification requirements including certifications must be met at the time of proposal submittal.

For purposes of this RFQ *Proficiency* is the knowledge and expertise to understand which surfaces are needed from the designer, understand the survey data from the field, prepare the survey data as needed for use in the software, and generate accurate earthwork quantities from the software.

#### Minimum Qualifications:

##### **PROPOSER SHALL:**

- (1) Be regularly engaged in the business of providing the goods and/or services similar in scope and size as described in the Request for Qualifications "Scope of Services" for a minimum of five (5) years, as evidenced in Standard Form 330 Architect-Engineer Qualifications. **PG #18**
- (2) 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. **PG #13 - 144**

##### **KEY PERSONNEL**

**See Exhibit I** for minimum experience and education requirements for each key personnel.

- (1) Design Services
  - i. Principal - **Franklin Torrealba, PE, ENV SP (License PG #65)**
- (2) Project Manager - **Silvia Beltre, PE (License PG #66)**
- (3) Construction Engineering & Inspection (CEI)
  - i. **CEI Contract Support Specialist - Jenny Toruno, MS, PE (PG #70)**
  - ii. **CEI Inspector - Ivan Blancoz(PG #68)**
  - iii. **CEI Senior Inspector - Ricardo Escobar, PE,CGG (PG #67) / Albert Hernandez (PG #69)**

#### General Qualifications:

The following represent the qualification(s) required by the successful Proposer prior to final award or contract execution:

- (1) Provide proof of active status or documentation evidencing Proposer is currently seeking active status with the Florida Department of State, Division of Corporation. **Submittals:** Current Florida Department of State, Division of Corporation certificate or equivalent document. PG #71





Ron DeSantis, Governor

Melanie S. Griffin, Secretary



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FLORIDA BOARD OF  
PROFESSIONAL ENGINEERS

## STATE OF FLORIDA

### BOARD OF PROFESSIONAL ENGINEERS

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

## TORREALBA, FRANKLIN ANTONIO

6700 SW 112 STREET  
PINECREST FL 33156

**LICENSE NUMBER: PE56385**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary



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## STATE OF FLORIDA

### BOARD OF PROFESSIONAL ENGINEERS

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

**BELTRE, SILVIA MERINO**

8265 NW 163 STREET  
MIAMI LAKES FL 33016

**LICENSE NUMBER: PE51295**

**EXPIRATION DATE: FEBRUARY 28, 2025**

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## CTQP Training History Report

**Report for:** ricardo escobar

**TIN:** E21672069

**Report Date:** 03/14/2024

### Valid Qualifications

Qualification Name	Certificate Number	Valid from	Expires on
Asphalt Paving Level 1	3023717	08/21/2028	08/24/2028
Asphalt Paving Level 1	3023644	08/21/2023	08/21/2028
Asphalt Paving Level 2	3023716	08/24/2023	08/24/2028
Final Estimates Level 1	3005188	07/02/2021	07/02/2026
Final Estimates Level 2	3005191	07/02/2021	07/02/2026
QC Manager	N/A	04/12/2008	01/01/2099
QC Manager	N/A	02/26/2013	01/01/2099

### Expired Qualifications

Qualification Name	Certificate Number	Valid from	Expired on
Asphalt Paving Level 1	N/A	05/31/2013	06/01/2023
Asphalt Paving Level 1	N/A	04/23/2013	04/23/2018
Asphalt Paving Level 1	N/A	10/19/2004	10/19/2009
Asphalt Paving Level 2	N/A	04/23/2013	06/01/2023
Asphalt Paving Level 2	N/A	05/31/2013	05/31/2018
Asphalt Paving Level 2	N/A	05/06/2005	05/06/2010
Concrete Field Inspector Level 2	N/A	04/12/2008	04/12/2013
Concrete Field Inspector Level 2	N/A	05/09/2003	02/22/2008
Concrete Field Technician Level 1	N/A	04/17/2008	04/17/2013
Concrete Field Technician Level 1	N/A	05/09/2003	01/25/2008
FDOT Concrete Field Inspector Specification	N/A	05/09/2003	05/09/2008
Final Estimates Level 1	N/A	08/31/2011	08/31/2016
Final Estimates Level 2	N/A	07/14/2011	07/14/2016
QC Manager	N/A	05/09/2003	01/01/2099

## CTQP Training History Report

**Report for:** Ivan Blanco

**TIN:** B45241078

**Report Date:** 03/06/2024

### Valid Qualifications

Qualification Name	Certificate Number	Valid from	Expires on
Asphalt Paving Level 1	3006717	09/18/2021	09/18/2026
Final Estimates Level 1	2006639	10/10/2020	10/10/2025
Final Estimates Level 2	2007205	12/05/2020	12/05/2025

### Expired Qualifications

Qualification Name	Certificate Number	Valid from	Expired on
Concrete Field Technician Level 1	N/A	06/04/2016	06/04/2021
Drilled Shaft Inspection	N/A	10/09/2018	10/09/2023
Earthwork Construction Inspection Level 1	N/A	07/31/2018	07/31/2023
Pile Driving Inspection	N/A	12/28/2018	12/28/2023

### Pending Qualifications

No Matching Pending Qualification Records Found

### Requirements

Requirement Name	Result	Valid from	Expired on
ACI Concrete Field Testing Technician Certificate	MET	01/01/1900	01/01/2099
Asphalt Paving - Level 1 - Proficiency Exam	MET	09/11/2021	09/11/2026
Asphalt Paving - Level 1 - Written Exam Requirement	PASS	09/18/2021	09/18/2026
Asphalt Paving - Level 1 - Written Exam Requirement	FAIL	09/11/2021	09/11/2026
Drilled Shaft Inspection - Proficiency Exam	MET	10/09/2018	10/09/2023
Drilled Shaft Inspection - Written Exam Requirement	PASS	07/31/2018	07/31/2023
Earthwork Construction Inspection - Level 1 - Proficiency Exam	MET	07/31/2018	07/31/2023

## CTQP Training History Report

**Report for:** Alberto Hernandez

**TIN:** H65500159

**Report Date:** 03/06/2024

### Valid Qualifications

Qualification Name	Certificate Number	Valid from	Expires on
Asphalt Paving Level 1	3009829	02/25/2022	02/25/2027
Asphalt Paving Level 2	3009828	02/25/2022	02/25/2027
Concrete Field Inspector Level 2	3006110	08/18/2021	06/10/2025
Concrete Field Technician Level 1	3010191	02/25/2022	01/14/2027
Earthwork Construction Inspection Level 1	2004985	09/30/2020	09/30/2025
Earthwork Construction Inspection Level 1	2004985	09/30/2020	09/30/2025
Earthwork Construction Inspection Level 1	2004985	09/30/2020	09/30/2025
Earthwork Construction Inspection Level 1	2004985	09/30/2020	09/30/2025
Earthwork Construction Inspection Level 2	3013087	06/13/2022	06/13/2027
Final Estimates Level 1	N/A	08/09/2017	04/04/2024
Final Estimates Level 2	N/A	04/04/2019	04/04/2024
Pile Driving Inspection	3015463	09/24/2022	09/24/2027
QC Manager	N/A	02/08/2013	01/01/2099

### Expired Qualifications

Qualification Name	Certificate Number	Valid from	Expired on
Asphalt Paving Level 1	N/A	02/25/2017	02/25/2022
Asphalt Paving Level 1	N/A	02/24/2012	02/24/2017
Asphalt Paving Level 1	N/A	07/26/2010	07/26/2015
Asphalt Paving Level 2	N/A	02/24/2012	02/25/2022
Asphalt Paving Level 2	N/A	02/24/2012	02/24/2017
Asphalt Plant Level 1	N/A	04/05/2013	04/05/2018
Concrete Field Technician Level 1	N/A	11/19/2016	11/19/2021
Concrete Field Technician Level 1	N/A	07/14/2011	07/14/2016

## CTQP Training History Report

**Report for:** JENNY TORUNO

**TIN:** T65043382

**Report Date:** 03/14/2024

### Valid Qualifications

Qualification Name	Certificate Number	Valid from	Expires on
Asphalt Paving Level 1	3005761	08/03/2021	08/03/2026
Asphalt Paving Level 2	3005819	08/06/2021	08/06/2026
Final Estimates Level 1	3005187	07/02/2021	07/02/2026
Final Estimates Level 2	3005190	07/02/2021	07/02/2026
QC Manager	3006490	07/27/2021	01/01/2099

### Expired Qualifications

No Matching Expired Qualification Records Found

### Pending Qualifications

No Matching Pending Qualification Records Found

### Requirements

Requirement Name	Result	Valid from	Expired on
90 Days Experience Asphalt Paving Operations or Asphalt Roadway Testing	MET	01/01/1900	01/01/2099
Asphalt Paving - Level 1 - Proficiency Exam	MET	08/03/2021	08/03/2026
Asphalt Paving - Level 1 - Written Exam Requirement	PASS	08/03/2021	08/03/2026
Asphalt Paving - Level 2 - Written Exam Requirement	PASS	08/06/2021	08/06/2026
Final Estimates - Level 1 - Written Exam Requirement	PASS	07/02/2021	07/02/2026
Final Estimates - Level 2 - Written Exam Requirement	PASS	07/02/2021	07/02/2026
QC Manager - Written Exam Requirement	PASS	07/27/2021	07/27/2026





[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

## Detail by Entity Name

Florida Profit Corporation  
ARDURRA GROUP, INC.

### Filing Information

<b>Document Number</b>	555540
<b>FEI/EIN Number</b>	59-1782900
<b>Date Filed</b>	12/19/1977
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<b>Status</b>	ACTIVE
<b>Last Event</b>	AMENDMENT
<b>Event Date Filed</b>	02/06/2019
<b>Event Effective Date</b>	NONE

### Principal Address

8600 NW 17th Street  
Suite 200  
Miami, FL 33126

Changed: 07/12/2023

### Mailing Address

4921 MEMORIAL HWY, Ste 300  
TAMPA, FL 33634-7520

Changed: 04/09/2021

### Registered Agent Name & Address

CT Corporation System  
1200 South Pine Island Road  
Plantation, FL 33324

Name Changed: 01/31/2020

Address Changed: 01/31/2020

### Officer/Director Detail

#### **Name & Address**

Title CFO, Treasurer, Secretary

## 1.8 Small/Minority Business Enterprise

Ardurra Group, Inc. is *not* a State of Florida Small/Minority Business Enterprise (SBE).



1.9 Employer E-Verify Affidavit



City of Coral Gables  
Finance Department/Procurement Division

**Employer E-Verify Affidavit**

By executing this affidavit, the undersigned employer verifies its compliance with F.S. 448.095, stating affirmatively that the individual, firm or corporation has registered with and utilizes the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in F.S. 448.095 which prohibits the employment, contracting or sub-contracting with an unauthorized alien. The undersigned employer further confirms that it has obtained all necessary affidavits from its subcontractors, if applicable, in compliance with F.S. 448.095, and that such affidavits shall be provided to the City upon request. Failure to comply with the requirements of F.S. 448.095 may result in termination of the employer’s contract with the City of Coral Gables. Finally, the undersigned employer hereby attests that its federal work authorization user identification number and date of authorization are as follows:

1887456  
Federal Work Authorization User Identification Number  
September 21, 2022  
Date of Authorization

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on 3/6/2024 in Miami (city), FL (state).

Signature of Authorized Officer or Agent

Walfrido Pevida, PE / Manager  
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME  
ON THIS THE 6th DAY OF March, 2024 .

NOTARY PUBLIC  
My Commission Expires:  
2/7/2025

Daviana Sanchez-Peraza  
Comm. #HH089631  
Expires: Feb. 7, 2025  
Bonded Thru Aaron Notary

## 1.10 Lobbyist Registration & Oral Registration Forms

CITY OF CORAL GABLES

FINANCE DEPARTMENT/PROCUREMENT DIVISION

LOBBYIST REGISTRATION FORM  
RFQ 2024-007 / Transportation Planning and Engineering Consulting Services

SOLICITATION NAME/NUMBER: \_\_\_\_\_

The Bidder/Proposer certifies that it understands if it has retained a lobbyist(s) to lobby in connection with this specific competitive solicitation that each lobbyist retained has timely filed the registration or amended registration required under the City of Coral Gables Lobbyist Registration requirement pursuant to Ordinance 2021-24 as outlined below:

*Lobbyist* means an individual, firm, corporation, partnership, or other legal entity employed or retained, whether paid or not, by a principal, or that contracts with a third-party for economic consideration to perform lobbying activities on behalf of a principal.

*Lobbying activity* means any attempt to influence or encourage the passage or defeat of, or modification to, governmental actions, including, but not limited to, ordinances, resolutions, rules, regulations, executive orders, and procurement actions or decisions of the city commission, the mayor, any city board or committee, or any city personnel. The term "lobbying activity" encompasses all forms of communication, whether oral, written, or electronic, during the entire decision-making process on actions, decisions, or recommendations which foreseeably will be heard or reviewed by city personnel. This definition shall be subject to the exceptions stated below.

*Procurement matter* means the city's processes for the purchase of goods and services, including, but not limited to, processes related to the acquisition of: technology; public works; design services; construction, professional architecture, engineering, landscape architecture, land surveying, and mapping services; the purchase, lease or sale of real property; and the acquisition, granting, or other interest in real property.

*City personnel* means those city officials, officers and employees who are entrusted with the day-to-day policy setting, operation, and management of certain defined city functions or areas of responsibility, even though ultimate responsibility for such functions or areas rests with the city commission, with the exception of the City Attorney, Deputy City Attorney, and Assistant City Attorneys, advisory personnel (members of city advisory boards and agencies whose sole or primary responsibility is to recommend legislation or give advice to the city commission); and any employee of a city department or division with the authority to participate in procurement matters, when the communication involves such procurement.

Affidavit requirement. The following provisions shall apply to certain individuals who, in procurement matters participate in oral presentations or recorded negotiation meetings and sessions:

- a. The principal shall list on an affidavit form, provided by the City, all technical experts or employees of the principal whose normal scope of employment does not include lobbying activities and whose sole participation in the city procurement matter involves an appearance and participation in a city procurement matter involves an appearance and participation in an oral presentation before a city certification, evaluation, selection, technical review or similar committee, or recorded negotiation meetings or sessions.
- b. No person shall appear before any procurement committee or at any procurement negotiation meeting or session on behalf of a principal unless he/she has been listed as part of the principal's presentation or negotiation team or has registered as a lobbyist. For purposes of this subsection only, the listed members of the oral presentation or negotiation team shall not be required to separately register as lobbyists or pay any registration fees. The affidavit will be filed by the city procurement staff with the city clerk at the after the proposal is submitted or prior to the recorded negotiation meeting or session. Notwithstanding the foregoing, any person who engages in lobbying activities in addition to appearing before a procurement committee to make an oral presentation, or at a recorded procurement negotiation meeting or session, shall comply with all lobbyist registration requirements.

The Bidder/Proposer hereby certifies that: (select one)

It has not retained a lobbyist(s) to lobby in connection with this competitive solicitation; however, if one is retained anytime during the competitive process and prior to contract execution for this project, the lobbyist will properly register with the City Clerk's Office within two (2) business days of being retained with copy to the city procurement staff.

\_\_\_\_\_ It has retained a lobbyist(s) to lobby in connection with this competitive solicitation and certified that each lobbyist retained has timely filed the registration or amended registration required under the City of Coral Gables



CITY OF CORAL GABLES  
FINANCE DEPARTMENT/PROCUREMENT DIVISION  
LOBBYIST REGISTRATION FORM

Lobbyist Registration requirement pursuant to Ordinance 2021-24 Section and that the required affidavit has been properly filed


It is a requirement of this solicitation that the following information be provided for all lobbyists retained to lobby in connection with this solicitation be listed below:

Name of Lobbyist: \_\_\_\_\_  
Lobbyist's Firm (if applicable): \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Name of Lobbyist: \_\_\_\_\_  
Lobbyist's Firm (if applicable): \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Name of Lobbyist: \_\_\_\_\_  
Lobbyist's Firm (if applicable): \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_

Name of Lobbyist: \_\_\_\_\_  
Lobbyist's Firm (if applicable): \_\_\_\_\_  
Phone: \_\_\_\_\_  
E-mail: \_\_\_\_\_

**Authorized Signature:**  \_\_\_\_\_  
**Printed Name:** Walfrido Pevida, PE \_\_\_\_\_  
**Date:** 3.7.2024 \_\_\_\_\_  
**Title:** Manager \_\_\_\_\_  
**Bidder/Proposer Name:** Ardurra Group, Inc. \_\_\_\_\_

## 1.10 Lobbyist Registration & Oral Registration Forms

CITY OF CORAL GABLES  
FINANCE DEPARTMENT/PROCUREMENT DIVISION

### LOBBYIST AFFIDAVIT

Solicitation Name/Number: \_\_\_\_\_

The following provisions shall apply to certain individuals who, in procurement matters participate in oral presentations or recorded responsiveness, responsibility or negotiation meetings and sessions:

- a. The principal shall list below all technical experts or employees of the principal whose normal scope of employment does not include lobbying activities and whose sole participation in the city procurement matter involves an appearance and participation in an oral presentation before an evaluation, selection, technical review or similar committee, or recorded responsiveness, responsibility or negotiation meetings or sessions.
- b. No person shall appear before any procurement committee or at any procurement responsiveness, responsibility or negotiation meeting or session on behalf of a principal unless he/she has been listed as part of the principal's team pursuant to this affidavit or has registered as a lobbyist. For purposes affidavit only, the listed members of the oral presentation or negotiation team shall not be required to separately register as lobbyists or pay any registration fees.

This affidavit will be provided by the city procurement staff to the city clerk after the proposal is submitted or prior to the oral presentation. Any changes after the original affidavit is submitted by the proposer and prior to the oral presentations, an updated copy shall be presented to the Procurement Division and the City Clerk at least twenty-four (24) hours prior scheduled time for the oral presentation session. Notwithstanding the foregoing, any person who engages in lobbying activities in addition to appearing before a procurement committee to make an oral presentation, or at a recorded procurement negotiation meeting or session, shall comply with all lobbyist registration requirements.

List of employees & technical experts:


NAME	TITLE	ROLE	COMPANY/FIRM

# 1.10 Lobbyist Registration & Oral Registration Forms

CITY OF CORAL GABLES  
FINANCE DEPARTMENT/PROCUREMENT DIVISION

## LOBBYIST AFFIDAVIT

I do solemnly swear that all of the foregoing information is true and correct and I will fully comply with requirements of this affidavit and the associated City of Coral Gables Lobbyist Registration requirement pursuant to Ordinance 2021-24 Section.

Authorized Signature: 

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Date: \_\_\_\_\_

Bidder/Proposer's Name: Ardurra Group, Inc.

## NOTARY PUBLIC

STATE OF FL

COUNTY OF Miami-Dade

On this 6th day of March, 2024, before me the undersigned Notary Public of the State of Florida, personally appeared Walfrido Pevida, PE (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.

Daviana Sanchez-Peraza

NOTARY PUBLIC, STATE OF Florida





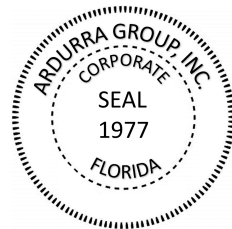
(Name of notary Public; Print, Stamp or Type as Commissioned.)

## SEAL OF OFFICE:

Personally know to me or Produced  
Identification:

\_\_\_\_\_

(Type of Identification Produced)



# SECTION II

## *Experience & Qualifications*



**CORAL  
GABLES**  
THE CITY BEAUTIFUL



**ARDURRA**



## 2.1 Proposer's Qualifications

### Summary

<b>Firm Name:</b>	Ardurra Group, Inc.
<b>Number of Years in Business:</b>	46 years
<b>Size:</b>	Mid-size to Large
<b>Office Location:</b>	8600 NW 17 Street, Suite 200, Doral, Florida 33126 (Headquarters)
<b>Relevant Licenses/Certifications:</b>	Florida Board of Professional Engineers License – CA2610 Envision Qualified Company by the Institute of Sustainable Infrastructure

### Company History

ARDURRA is a locally based ENR Top 500 engineering firm that has been providing multi-disciplinary consulting services to municipalities and agencies for more than 46 years. As a responsive and nimble partner, we take ownership of every project to ensure success. We leverage the depth of our professional and technical expertise, as well as our integrated structure, to deliver practical, innovative solutions for our clients. Our diverse experience and expertise span the entire project delivery cycle. We can take transportation projects from concept to reality and have expertise in all facets of the project delivery process including transportation planning, traffic engineering, Project Development and Environment (PD&E) studies, final design (roadway, structures, drainage, lighting, signalization, ITS, and more), multimodal, permitting, and Construction Engineering and Inspection. ARDURRA's Transportation team offers capabilities ranging from Vision Zero initiatives, safety and complete streets designs to complex multilevel interchanges and urban arterial widening and reconstruction projects.

Headquartered in Miami-Dade County, with 1500+ employees in 75+ offices across the country, ARDURRA is a rapidly growing company of experts, engineers, scientists and design professionals committed to delivering quality services and practical solutions. We build strong partnerships through our unwavering commitment to deliver quality services and practical solutions that exceed our clients' expectations, improve our communities, and respect the environment. Our philosophy involves consistent and transparent communication, a listen-first approach and experienced management. We have listened to you and understand the challenges and objectives of this contract. We will implement a one-team culture, proactive and "one-step ahead" approach that aims to minimize the City's efforts, execute the project and control quality, schedule, budget, and proactively address project risks. The ARDURRA Team is eager to work with you and committed to providing excellent services, ample availability, geographic coverage, a prompt response, strong experience, expertise, and redundancy in staff. This approach will ensure we develop solutions to meet the City's schedules, while clearing planning and environmental hurdles. Our Team also includes Public Involvement professionals, graphic artists, 3D experts and drone operators experienced in the development of a variety of outreach needs, public involvement plans, strategic communication plans and complex program campaigns.



## Local Team / Local Office

This project will be administered by our local office located just 10 minutes from the City of Coral Gables (our headquarters are moving even closer in a few months when we relocate to the Blue Lagoon area). Our Miami office houses 150 employees with the ability to tap into 500+ additional employees in Florida alone along with various subject matter experts nationally.

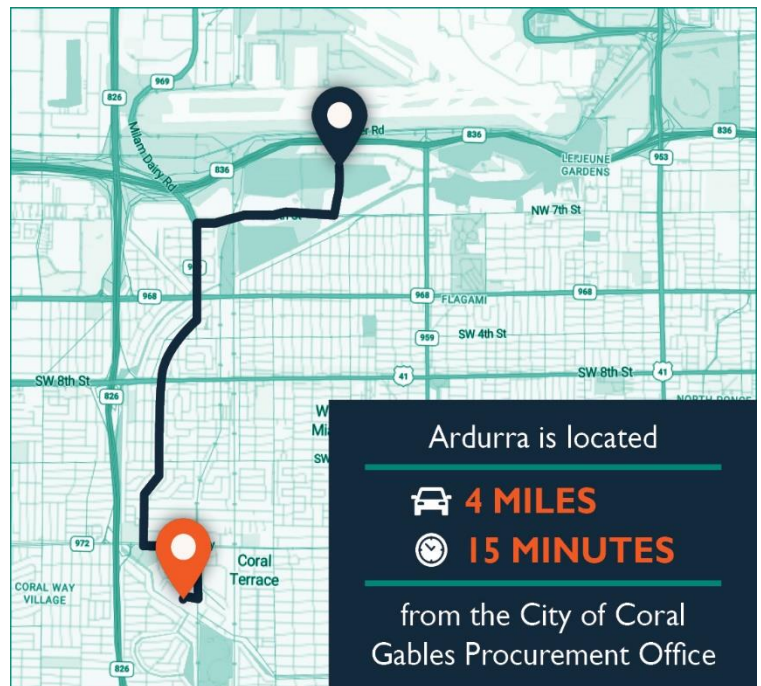
## Capabilities

ARDURRA currently provides engineering/consulting services to various local, regional and statewide governmental agencies in Florida. We hold approximately 44 task-work order-based contracts for continuing engineering services in the State of Florida. Many of these contracts have been maintained for more than 25 years as a result of the quality of services we offer our clients. **We have developed a successful and proven approach to deliver these services.** Our team understands that these contracts require a high level of commitment, availability and responsiveness to efficiently manage smaller budgets and tighter schedules to successfully complete assignments.

Through our newly acquired firm 300 Engineering Group, LLC, we are currently working as your consultant on over one hundred (100) Civil and Environmental projects. Subject matter experts representing 300 Engineering Group currently engaged with projects in the City of Coral Gables are also assigned to this contract for the experience, knowledge, and value they bring. Working hand-in-hand with the City during the past few years, they have an in-depth understanding of the City's policies and procedures allowing efficiency and quicker response times. ARDURRA works closely with our client's team throughout the project life cycle, from inception to completion, to ensure deadlines are met, innovative solutions are found, costs are controlled, and expectations are exceeded. ARDURRA will lead these efforts and will be supported by a group of firms known for their expertise and experience working together. Our Team provides redundant resources and is capable of handling multiple concurrent assignments while ensuring quality on-time deliverables. In addition, ARDURRA has LEED and Envision accredited professionals which allows us to work with the City to incorporate sustainability into the City's projects.

### ***Our Team's Services include:***

- Program Management/Project Management
- Comprehensive Master Plans
- Grants/FDOT Local Agency Program Support
- Public Outreach/Development Coordination
- Project Development and Environment (PD&E) Studies
- Corridor Planning/Conceptual Engineering
- Traffic Engineering and Transportation Planning
- Roadway Design
- Drainage Design
- Hydraulic and Hydrological Modeling
- Water Resources Management
- Signing and Pavement Marking Design
- Lighting Design
- Signalization Design
- Intelligent Transportation Systems
- Structural Design (Bridges and Misc, Structures)
- Value Engineering
- Transit/Transit Oriented Development/Multimodal
- Landscape Architecture
- Permitting and Regulatory Compliance
- Natural, Physical and Sociocultural Environment
- Environmental Surveys
- Cultural Resources
- Sea Level Rise/Adaptation Strategies
- Water, wastewater, reuse, and stormwater systems
- Sanitary Sewer Evaluation Survey
- Design/Build Projects
- Construction Administration and Management
- Construction Engineering Inspection (CEI)
- Program/Project Controls (Budget/Schedules)
- Operations and Maintenance Support
- Material Inspection
- Disaster Management and Hazard Mitigation Strategies
- Control Survey
- Design, Right of Way, Construction Surveying
- Soil Exploration
- Geographic Information System/Asset Management
- 3D Modeling

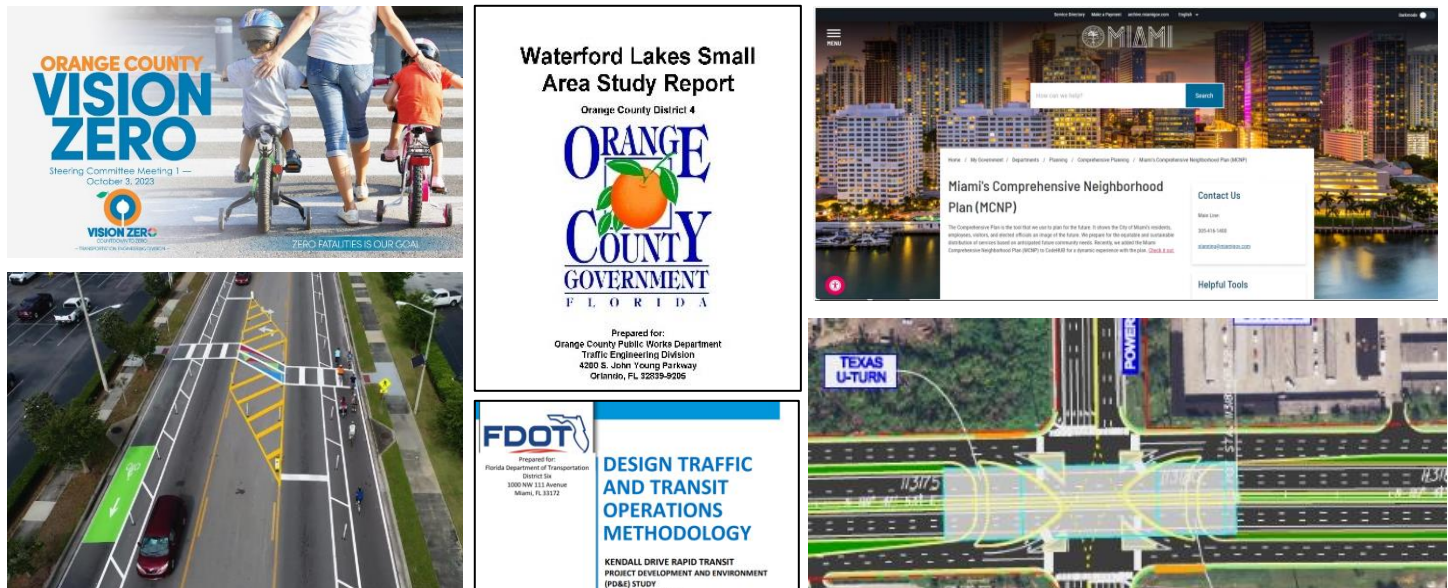




## Relevant Experience and Proven Track Record

We have assembled a unique team of engineers and subject matter experts with more than a 30-year track record of successfully completing projects of similar size and scope. We are truly committed to meet the City's goals to deliver safe, resilient and sustainable transportation solutions. The City of Coral Gables was founded on innovation as it is one of the very first planned communities in the United States and is recognized today as a nationwide Smart City. Below is a summary of some of our relevant experience and proven record of providing the services required in this solicitation. For more details, please refer to Section IV Past Performance and References

### TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING SERVICES



Our Traffic Engineering and Transportation Planning experts have assisted cities, counties and the Florida Department of Transportation with various traffic and planning services including review of Traffic Impact Studies, Site Plans and Development of Regional Impacts, conducted multimodal area studies, traffic studies and supported interchange access requests and reevaluations. We have also prepared scoping reports, delivered traffic calming projects, and provided specialized experience in various types of Intelligent Transportation Systems (ITS) and systems integration including computerized traffic signal system, street, light rail transit, advanced traffic management system and automated travel information systems. We are the only firm with an in-house traffic signal lab in our Houston, Texas office to test and evaluate traffic signal equipment before it is deployed in the field. We have teamed with partners to provide you redundancy for Transportation Planning and Traffic Engineering and to support traffic data collection efforts. Some of our Team's local representative projects providing these services include (\* indicates staff member previous employment expertise):

- ✓ Allapattah Produce Market Place, Traffic Flow Modification, City of Miami\*
- ✓ Giralda Avenue/Aragon Avenue Traffic Calming, City of Coral Gables\*
- ✓ Williamsburg Area Transportation Study, Orange County
- ✓ Buenaventura Boulevard Complete Streets, Osceola County
- ✓ Fort Lauderdale Downtown Development Authority Transit Circulator Environmental Assessment Study \*
- ✓ Oak Ridge Road Pedestrian/Bicycle Safety Study \*
- ✓ University Blvd. Pedestrian/Cyclist Safety Study
- ✓ SR 551 Pedestrian Crossing Study
- ✓ Americana Blvd. Pedestrian Safety Improvements \*
- ✓ Fortune-Simpson Intersection Safety Improvement
- ✓ Kelly Park Road Safety Analysis
- ✓ Orange County Vision Zero Action Plan
- ✓ Orange County Pedestrian and Bicycle Safety Action Plan\*
- ✓ D5 Districtwide Safety Studies
- ✓ Orange County Transit Road Safety Audit (USDOT Mayor's Challenge for Safer Streets) \*
- ✓ Technical Brief "Incorporating the Safe System Approach into Local Road Safety Plans" – ITE Reviewer
- ✓ City of Palm Bay Bicycle and Pedestrian Master Plan
- ✓ Orange County Pedestrian and Bicycle Safety Action Plan
- ✓ Lockmar Elementary School Route Analysis
- ✓ Board Member, Bike/Walk Central Florida – advocacy and technical review for Orange/Seminole and Osceola Counties
- ✓ Technical Advisor – 2018 Florida Greenbook Chapters on Pedestrian and Bicycle Facilities \*
- ✓ Southwest 10 Street Feasibility Study
- ✓ D6 DW PD&E Support Contract (various scoping reports)
- ✓ DW Traffic Operations Studies Consultant
- ✓ DW Traffic Operations Safety Studies Consultant
- ✓ City of Key West General Traffic Engineering Services
- ✓ Miami-Dade County Traffic Studies

## PROJECT DEVELOPMENT AND ENVIRONMENT SERVICES



Our Corridor Planning and Project Development and Environment (PD&E) experts have conducted a variety of corridor analysis and PD&E studies that have ranged from one-way pair conversion study, arterial widening, interstate widening, bridge replacements and expressway extensions. Our experts have participated in various aspects of Corridor and PD&E studies including conceptual engineering, environmental analysis and extensive outreach. We have a full house of environmental experts in analyzing a project's potential impacts to the natural, physical and socio-cultural environment. This includes investigating issues such as wetlands, water quality, species and their habitat, mitigation, historic and archeological, contamination, and noise/air. Our Team also has local Public Involvement experts knowledgeable in the preparation of Public Involvement Plans and hybrid public meetings. Some of our Team's representative projects providing these services include (\* indicates staff member previous employment expertise):

- ✓ SR 5/US 1/Seven Mile Bridge over the Moser Channel PD&E Study
- ✓ SR 5/US 1 Long Key Bridge Over Long Key Channel PD&E Study (Sub)
- ✓ Florida's Turnpike Mainline PD&E Study from SR 60 to Kissimmee Park Road
- ✓ Cove Road from Kanner Highway to SR 5 PD&E Study
- ✓ CR 769 from S. Kingsway Circle to Peace River Street PD&E Study– 2 to 4 lane arterial widening
- ✓ SR 31 from SR 78 to Cook Brown Road PD&E Study – 2 lane to 4/6 lane widening/reconstruction
- ✓ SR 33 from Old Combee Road to north of Tomkow Road PD&E Study – 2 to 4 lane arterial widening
- ✓ St. Johns Heritage Parkway from Babcock Street to Malabar Road Alternative Corridor Evaluation (ACE) Study
- ✓ SR 836 Southwest Extension (Kendall Parkway) Phase I – Alternative Corridor Evaluation (ACE) \*
- ✓ SR 836 Southwest Extension (Kendall Parkway) Phase II - PD&E Study \*
- ✓ SR 924 West Extension to HEFT PD&E Study \*
- ✓ SR 924 East Extension to I-95 PD&E Study \*
- ✓ SR 821/HEFT and SR 836/Dolphin Expressway Interchange Modification Report (IMR) \*
- ✓ I-75 & SR 951/Collier Boulevard Interchange IMR Re-evaluation
- ✓ Breezeswept Force Main & Pump Station Improvements (City of North Miami) Design and Public Involvement Support
- ✓ Croton Force Main and Pump Station Improvements (City of North Miami) Design and Public Involvement Support
- ✓ Septic to Sewer Conversion (City of Coral Gables) Public Involvement Support
- ✓ City of North Miami Lead & Copper Rule Revision Project Public Involvement Support
- ✓ Seminole Tribe to Florida Lead & Copper Rule Revision Project Public Involvement Support
- ✓ SR 551 (Goldenrod Road) Pedestrian Crossing Study – project limits from Bates Road to University Boulevard (1 mile)



## DESIGN SERVICES



Our Transportation Team consists of recognized leaders in our industry often recognized for their technical excellence. Some of these local signature projects include the following:

- ✓ 95 EXPRESS 3A2 - DBIA Florida Region Project of the Year Award – Transportation
- ✓ I-95 EXPRESS LANE SEGMENT PHASE 3B1 & 3B-2 - DBIA Florida Region Project of the Year Award – Transportation
- ✓ SR 91 Emergency Bridge Repair and Beam Replacement - 2024 Engineering Excellence Honor Award

The ARDURRA Team can provide the city with all the services necessary to prepare a complete set of construction plans. Our experience covers the following services: roadway resurfacing, widening and reconstruction, drainage and stormwater systems, hydraulic and hydrogeological modeling, pavement assessment and restoration, bridges, retaining walls and other miscellaneous structures, lighting, signalization, signing and pavement marking and landscape architecture. We have teamed with partners to provide you with survey, right of way, geotechnical and material inspection support. Some of our Team's representative projects providing these services include (\* indicates staff member previous employment expertise):

- ✓ City of Coral Gables Miscellaneous City-wide Stormwater System Improvements (Design and Permitting)
- ✓ City of Coral Gables Aragon-Giraldo Streetscape
- ✓ City of Coral Gables GIS Drainage Infrastructure Verification
- ✓ I-395/SR 836/I-95 Reconstruction Design-Build, Miami-Dade County, MDX & FDOT District 6 (Roadway, Bridges, MOT, Signing and Pavement Marking and Bridges)
- ✓ SR 5 Overseas Highway from MP 19.4 to 19.8 and MP 20.6 to 23.1 – Resurfacing (Roadway, MOT, and Signing and Pavement Marking)
- ✓ SR 989/SW 112 Avenue/Allapattah Road (Widen, intersection and turn lane improvements, Signing and Pavement Markings include high emphasis crosswalks)
- ✓ Walton Road – SLC 2 to 4 laning with lots of ped/cyclist accommodations for Port St. Lucie City Center
- ✓ FDOT D4 - Olive Avenue (SR 5) –Road Diet (5-lane down to 2-lane with boulevard feel for pedestrians and cyclists)
- ✓ FDOT D6 - Miami Dade County SR-90 / SW 8 Street (Signalization)
- ✓ FDOT D6 - Miami Dade County SR-909 (Signalization)
- ✓ FDOT D6 - Miami Dade County SR-989 (Signalization)
- ✓ FDOT D5 – Brevard County SR-500 (Signalization)
- ✓ FDOT D5 – Brevard County SR-501 (Lighting and Signalization)
- ✓ FDOT D5 – Brevard County SR-520 (Lighting and Signalization)
- ✓ Tamiami Trail Bridging to restore natural flow to Everglades (Roadway, MOT and Bridges)
- ✓ SR A1A/MacArthur Causeway East Bridge\*
- ✓ NW 5 Street Bridge\*
- ✓ FDOT D6 Districtwide Load Rating Contract
- ✓ FDOT D4 Brant Drive Bridge Replacement



### ***Contract Administration***

Our Team has extensive local experience coordinating with designers, contractors, surveyors, FDOT, permitting agencies, utilities and other entities. We have provided all services necessary for the analysis of construction schedules, construction delay claims, change orders, preparation of progress and final payment estimates, contract correspondence, preparation of minutes for various meetings and public information programs. Our efforts administering contracts have included:

- Project Controls
- Managing and maintaining submittals (plans, revisions, as-builts and post design including Request for Information (RFI) and Shop Drawings)
- Asset Management - Bridges, MSE Walls and OH Structures
- Track and monitor Change Orders
- Track right of way parcels
- Utility coordination efforts including preparation of Utility Work Schedule
- Identify new scope of work required and develop staff hour estimate
- Track contract schedule and revisions
- Prepare Monthly Schedule Reports and Daily Reports
- Inspection of Maintenance of Traffic (MOT)
- Verification of Material Quantities
- Review of payments and claims
- Confirm that Interdisciplinary Reviews are in compliance with the established QA process for all plans and revisions
- Maintained the administrations in FDOT ProjectSolve and Review Manager Suites

### ***Construction Engineering Inspection (CEI)***

The ARDURRA Team provides the full range of Construction Engineering Inspection (CEI) to our clients ensuring that projects are executed according to design specifications, regulatory standards, and safety requirements. Our Team includes a number of qualified inspectors and engineers to support the different stages of construction, including pre-construction, construction, and post-construction phases. Our inspectors have experience monitoring construction activities to verify compliance with plans, specifications and applicable codes. This includes checking materials and methods and monitoring the construction schedule to stay on track. They also perform vital roles involving safety compliance, documentation and reporting, testing and verification, progress monitoring and ensuring environmental compliance. Our Team has the coordination and communication experience to act as a liaison between contractors, engineers, regulatory agencies and the City. This allows for seamless resolution of concerns or issues that may arise during construction. ARDURRA (dba 300 Engineering Group) is currently provided CEI services to the City on Multiple projects, in addition to providing CEI to different municipalities in Miami Dade, including the Town of Miami Lakes, Town of Surfside and the City of Doral on Transportation.

### ***Material Inspection***

Our Team has partnered with Universal Engineering Science (UES). They have provided similar services to the City of Coral Gables. UES maintains full-service laboratory testing capabilities from each of its offices and performs testing services for construction materials

such as soils and aggregate materials; asphalt and bituminous materials; corrosion testing of soil and water; concrete and cement, and masonry units. Well-trained, certified, and experienced field and laboratory technicians perform materials testing following local, state, and national test methods. Their in-house Corporate Quality Systems Group maintains equipment calibration and checks accuracy.

The UES laboratories are qualified and accredited through outside agencies such as: Cement/Concrete Reference Laboratory Accreditation (CCRL), Construction Materials Engineering Council (CMEC), Florida Department of Transportation (FDOT), US Army Corps of Engineers (USACE). Some of our representative projects providing these Contract Administration, Construction Engineering Inspection and Material Inspection include:

### **Contract Administration**

- ✓ I-395/SR 836/I-95 Reconstruction Design-Build, Miami-Dade County, MDX & FDOT District 6
- ✓ I-75 at SR 951 (Collier Blvd.) Interchange and Collier Blvd. Design-Build, Collier County, FDOT District 1
- ✓ SR 70 from Lorraine Rd. to Bourneside Blvd. Design-Build, Manatee County, FDOT District 1
- ✓ CR 721 Construction and Turnkey Progressive Design-Build Services, Seminole Tribe of Florida (STOF), Brighton Reservation
- ✓ Turnpike (SR 91) / Nolte Rd Interchange Improvements Design-Build, Osceola County, FDOT Florida's Turnpike

### **Construction Engineering Inspection**

- ✓ CEI Services & LAP Administration for the NW 82nd St & NW 114th Ave Intersection Signalization Project
- ✓ Stormwater Improvements, Town of Medley
- ✓ CEI Services for ITB 2021-18 Stormwater Improvement at NW 89th Place and NW 24th Terrace
- ✓ CEI Services for Multiple Town of Miami Lakes Drainage Improvements Projects
- ✓ Owner's Representative Services for the Miami Dade County Northeast Compressed Natural Gas Facility/ Northeast Bus Depot – Miami, FL

### **Material Inspection**

- ✓ Eden Lakes Park Playground Expansion (Miami-Dade County Parks, Recreation & Open Spaces)
- ✓ Sabal Chase Park – Miami Dade County Park, Recreation & Open Spaces
- ✓ Kendall Indian Hammocks Park Playground – Miami Dade County Parks, Recreation & Open Spaces
- ✓ Miami Dade WASD South District WWTP – Miami Dade Water and Sewer Department

## **2.2 Permitting Expertise**

Permitting is crucial for the successful completion of infrastructure projects, specifically since any permitting delays can impact construction schedule and timely project completion. Our staff has worked in the Miami-Dade area for the last thirty-five (35) years. This provides an overall understanding of all the permitting requirements including the Regulator's perspective when implementing all types of infrastructure projects. Under the Miami-Dade Water and Sewer Department (WASD)'s Pump Station Improvement Program (PSIP), our team continues to work with RER-DERM regarding Sea Level Rise criteria and implementation. In addition, in order to achieve smooth and continuous progress during project execution, coordination with all governmental agencies that have jurisdiction over the project is required. ARDURRA has extensive experience working with Federal, State and Local agencies. Our prominent level of experience with these agencies allows us to successfully complete and expedite projects for the City with confidence while completing and processing the required permits without any impact or delay to project schedules. The following agencies have been identified as agencies which may require a certain level of coordination during the life of potential projects under this RFQ.

- US Environmental Protection Agency (USEPA)
- US Army Corps of Engineers (USACE)
- Florida Department of Environmental Protection (FDEP)
- Miami-Dade Department of Regulatory and Economic Resources (MD-RER)
- Florida Department of Transportation (FDOT)
- South Florida Water Management District (SFWMD)
- Florida Department of Health (FDOH)
- City of Coral Gables Development Services Department – Building Division
- City of Coral Gables Public Works Department
- Miami-Dade Transportation and Public Works Department (MDTPWD)



- Miami Dade Water and Sewer Department (MDWASD)
- Division of Historical Resources (DHR)/State Historic Preservation Officer (SHPO)

Moreover, based on our recent experience with WASD’s PSIP and Consent Decree (CD) Programs, we can firmly state that we have assisted our client to secure over five-hundred (500) permits including, MD-RER Sewer Extension Permit, MD Building Department (including zoning, structural, fire, mechanical, electrical, plumbing, landscaping, code compliance), MDTPWD and multiple municipalities’ Building and Public Works Permits for Force Main and Pump Station Projects. Our team has completed this in approximately four (4) years, proving our thorough expertise and knowledge of the County’s permitting process. The graphic on the right portrays a breakdown of permits obtained under the 300 Engineering Group umbrella. They have also obtained more than fifty (50) permits under MD-RER for drainage design projects with zero RFIs for the City of Coral Gables. We have streamlined this process and receive permit approval within three days average. We also have excellent working relationships with regulators in both the City and Miami-Dade County.



Our team has experience coordinating and consulting with permitting and resource agencies that extends from working on FDOT and on FDOT Local Agency Program (LAP) projects. Our staff includes the former Environmental Administrator and Assistant Permits Coordinator for District 6, and FDOT in-house consultant for permit support. They understand what FDOT District 6 needs to advance projects through the LAP as well as FDOT PD&E/NEPA requirements. Our team brings forth experts in consulting with the Division of Historical Resources (DHR)/State Historic Preservation Officer (SHPO) in preparing cultural resource surveys and obtaining concurrence for permits. Our agency coordination includes, USEPA, USACE, USCG, USFWS, NOAA Fisheries, SFWMD, FWC, FDEP and the DHR/SHPO.

To facilitate and expedite the permit process, Mr. Nicholas Fernandez, PE has been assigned as our Permitting Specialist. He will support our Project Manager, Ms. Silvia Beltre, PE to obtain the necessary permits for the City’s projects. Mr. Fernandez has played a substantial role in previous projects for the City and is fully knowledgeable of the permitting process in Miami-Dade County. He has extensive experience in the County’s electronic process which consists of signed and sealed electronic submittals and concurrent review by stakeholders including right of way, DERM, building and environmental. This provides our team with an advantage:

- ✓ Avoids contradictory comments between reviewers
- ✓ Maintains reviewers informed of project status
- ✓ Expedites RFI response
- ✓ Reduces printing (environmentally friendly)

Our permitting strategy is focused on expediting the overall process and minimizing project delays. Key tactics include:

- ✓ Pre-application meetings with the permitting agencies early in the design to obtain input
- ✓ Work hand-in-hand with the owner and the permitting agencies to ensure design decisions will not impact the ability to obtain permits
- ✓ Submit and follow-up applications with the permitting agencies to ensure timely response to potential RFIs
- ✓ Maintain permitting agencies informed during the construction phase
- ✓ Proactively work with Contractors during the construction phase to obtain all information required by the Regulatory Agencies, such as as-builts, Operations and Maintenance manuals and other items early on
- ✓ Post permit compliance monitoring to ensure compliance with the permit conditions



# *State of Florida*

## *Department of State*

I certify from the records of this office that ARDURRA GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on December 19, 1977.


The document number of this corporation is 555540.

I further certify that said corporation has paid all fees due this office through December 31, 2024, that its most recent annual report/uniform business report was filed on January 22, 2024, 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 Twenty-second day of January,  
2024*



  
Secretary of State

Tracking Number: 4016529779CC

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

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

## 2.3 Company's License, Registration as an Engineering Firm, Valid "Certificate of Authorization"

THE OFFICIAL SITE OF THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION



Department of Business  
& Professional Regulation

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### LICENSEE DETAILS

8:37:17 AM 2/27/2024

#### Licensee Information

Name:	<b>ARDURRA GROUP, INC. (Primary Name)</b>
Main Address:	<b>4921 MEMORIAL HIGHWAY SUITE 300 TAMPA Florida 33634</b>
County:	<b>HILLSBOROUGH</b>

#### License Information

License Type:	<b>Engineering Business Registry</b>
Rank:	<b>Registry</b>
License Number:	<b>2610</b>
Status:	<b>Current</b>
Licensure Date:	<b>01/20/1978</b>
Expires:	

#### Special Qualifications

#### Qualification Effective

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#### Alternate Names

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Under Florida law, email addresses are public records. If you do not want your email address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. \*Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. Please see our [Chapter 455](#) page to determine if you are affected by this change.

## 2.4 Coordination with Others



Our Team has extensive experience coordinating with local municipalities providing planning and engineering services that require coordination with various disciplines, planning and design professionals, permitting agencies, sub-consultants, and many other stakeholders. This experience extends to working on FDOT and on FDOT Local Agency Program (LAP) projects, coordinating with major construction contractors and various consultants, including traffic data collection, surveying, geotechnical, landscape architecture and environmental firms.

Tasks assigned under this contract will require the seamless integration of professionals from various areas of expertise.

- **Transportation Planners** – specialize in the development, analysis and implementation of transportation systems and policies to improve mobility, accessibility and sustainability. Areas of focus include Vision Zero/Safety Initiatives, Multimodal Planning, Feasibility studies, Traffic studies, Policy Development, Intergovernmental Engagement and Public Outreach
- **Project Development Planners/Engineers** – dedicated to Corridor Studies and PD&E Studies. Areas of focus include development of concept alternatives and evaluation of alternatives from the design and traffic/safety operations perspective.
- **Design Engineers** – responsible for the preparation of construction documents and specifications for projects including roadway, drainage, structures, signing and pavement marking, signalization, lighting, utility coordination and more
- **Environmental Scientists** – involved in every phase of project delivery from planning to construction complete. Depending on the phase, these scientists may screen projects for potential issues, assess potential impacts to the natural, physical and sociocultural environment based on alternative concepts, develop mitigation strategies, assist with permitting and ensure environmental compliance during construction
- **Public Outreach Professionals** – responsible for proactively and efficiently communicating with the public to address concerns and incorporate community objectives and goals into the projects
- **Operations and Maintenance Advisors** – responsible for incorporating the end-in-mind philosophy into projects, so the projects that we deliver are cost-effectively operated and maintained.
- **Regulatory Compliance and Permitting Specialists** – responsible for ensuring compliance with all the regulatory agencies
- **Project Control Experts** – dedicated to ensuring that projects are completed on time and on budget.

In our experience, the success of the coordination between the members of multidisciplinary teams' rests on having clearly defined communication protocols, project work plans, roles and responsibilities, and an understanding of our client's expectations. We understand the importance of effective coordination with other professionals who will be providing services to the City of Coral Gables. At the City's request, our team will work seamlessly with other professionals to avoid potential duplication of efforts and minimize as much as possible the burden on the City of Coral Gables' staff.

During the initial project scope development meeting, our project manager will work with the City's designated project manager to identify the necessary areas of coordination with other professionals. These areas may include the coordination of past/on-going/upcoming pre-design, design and/or construction work that may impact the scope of our project.

### **Our proactive approach includes:**

- Targeting the necessary areas of coordination with others at the onset of the project
- Development of a work plan with roles and responsibilities of all parties involved (City's staff, ARDURRA, sub-consultants, other Professionals)
- Development of a Communications Plan with protocols for internal and external communication preferences

ARDURRA's local resources include registered professionals with a wealth of experience in the types of services required in this RFQ. As such, most of the services requested by the City of Coral Gables will be completed by local professionals employed by ARDURRA, except for specialties, such as geotechnical engineering, material inspection, surveying, and traffic data collection. For these instances, ARDURRA has developed a thorough sub-consultant utilization approach to meet all the City's needs under this solicitation.

At the onset of every project, our team will develop a simple and effective Project Management Plan. This document will outline the project objectives, team members (including subconsultants) along with roles and responsibilities, project milestones and schedule, as well as our Communication Plan. A draft of this document will be presented to the City of Coral Gables for review and concurrence. All communications with the City of Coral Gables will be centralized by our proposed Project Manager, ensuring a single point of contact.

Though our team will follow the Organizational Chart presented in Section 2.6, our Project Management Plan will include each staff/subconsultant's specific role in the project. Our subconsultants/team of experts will support our proposed Project Manager, Ms.

Silvia M. Beltre, PE and management team, by providing value and expertise on the necessary key elements. Depending on the complexity and scope of the project, our proposed Project Manager will draw upon our team's local resources and set up a cost-effective project team with the necessary experience and expertise. In addition to the staff presented herein, ARDURRA can tap into a wealth of additional local and national subject matter experts in all areas outlined in the scope of services.

## 2.5 Experience and Qualifications of Team

Our project team was specifically assembled to provide the depth of experience and resources necessary to support any task work orders issued under this contract. The City will benefit from the staff members who have a history of providing high quality services on task orders issued under our current Environmental Engineering contract under the 300 Engineering Group umbrella. ARDURRA has a successful performance history with the City providing the technical expertise that the City has needed in order to expedite projects.



We are proud of our success delivering a wide range of engineering services including civil, environmental, mechanical, electrical, instrumentation and control, construction, cost control, among others, to the City of Coral Gables. We are committed to continue providing innovative, highly efficient, cost-effective and responsive services to meet the important needs of the City.

To support our team, we have partnered with Manuel G. Vera & Associates, Inc. (MGV), Universal Engineering Sciences, Inc. (UES), and Choice Engineering Consultants, Inc (Choice). Together we provide the City with a strong local team with a wealth of experience.



**Manuel G. Vera & Associates, Inc. (MGV)** is qualified as a local Miami-Dade Disadvantaged Business Enterprise (DBE) and operates from three offices throughout the state of Florida : Miami (Main Office), Jupiter, and Orlando. MGV was established in Miami-Dade County in 1977. Their core services encompass Survey & Mapping, Subsurface Utility Engineering and Utility Coordination. In addition to their extensive experience working with Florida Department of Transportation Districts 1 through 7, and Florida's Turnpike Enterprise, the firm is actively engaged in delivering Surveying and Mapping services to numerous Cities, Counties, and Municipalities across Florida. Furthermore, MGV collaborates with State and Federal Agencies, as well as a multiple of private engineering clients, providing survey support for a wide range of miscellaneous engineering design and design-build projects. Since 1997, MGV has been continuously selected as the Survey Consultant for FDOT District Six and began providing "On Premise" Survey Project Managers to the District in 2012.

MGV realizes that in order to continue to be successful in the Surveying and Mapping Profession, you need to not only be responsive and provide a quality deliverable to your clients, but you also need to keep up to date with the latest technologies and be able to utilize them in a way that will benefit your clients. MGV continuously upgrades survey equipment and programs (laser scanning, GPS RTK, electronic levels, hydrographic, MicroStation/Geopak, AutoCad, etc.) to the latest technologies in order to meet client's needs and expectations. Our Team will work with the City to determine what type of information is needed for a successful project and how we can best provide this information in a practical, manageable form that can readily be utilized by the planning and design teams.



**Universal Engineering Sciences, Inc. (UES)** are experts in the areas of environmental and earth sciences, sustainable infrastructure solutions, and geophysical technologies. Their nationwide network of nearly 4,000 engineers and technical professionals identify and solve complex engineering and construction challenges by providing personalized engineering, environmental, testing and inspection services. They have a local Miami-Dade office, and serve as trusted partners, providing clients with innovative, technology-based solutions. UES stands as a leader in delivering engineering services tailored for infrastructure and transportation across the United States. UES' expertise spans an array of projects from railways to highways, bridges to culverts, and local roads to retaining walls. Auxiliary structures such as overhead signs, intelligent transportation system infrastructure, traffic signals, and more. Whether the need is transportation engineering services or infrastructure engineering services, UES' trained and experienced personnel deliver solutions that transcend expectations.

They have expertise in specialized services that enhance transportation projects such as dynamic and static load testing of deep foundation elements, geotechnical instrumentation, precondition surveys. UES uses an integrated approach to subsurface analysis and virtual design consulting. Their geophysical services utilize advanced techniques, including gravity, magnetics, seismic refraction/reflection, and more, providing a cost-effective, non-destructive alternative to traditional methods. UES is experienced in collaborating with architects and engineers, integrating subsurface information models with building designs. From comprehensive subsurface analysis to accurate BIM integration, UES delivers cutting-edge solutions for informed decision-making in design-construction projects. Deliverables can be presented as a standalone subsurface information model or combined with our client's BIM product using Civil 3D, Navisworks or Revit.








**Choice Engineering Consultants, Inc. (Choice)** is a transportation engineering firm in Miami-Dade working with its clients to further develop Florida's transportation infrastructure. Choice focuses on restoring, improving, planning, and designing a transportation network that connects people and promotes economic growth. Choice is a proud DBE, SBE company specializing in Roadway and Traffic Engineering.

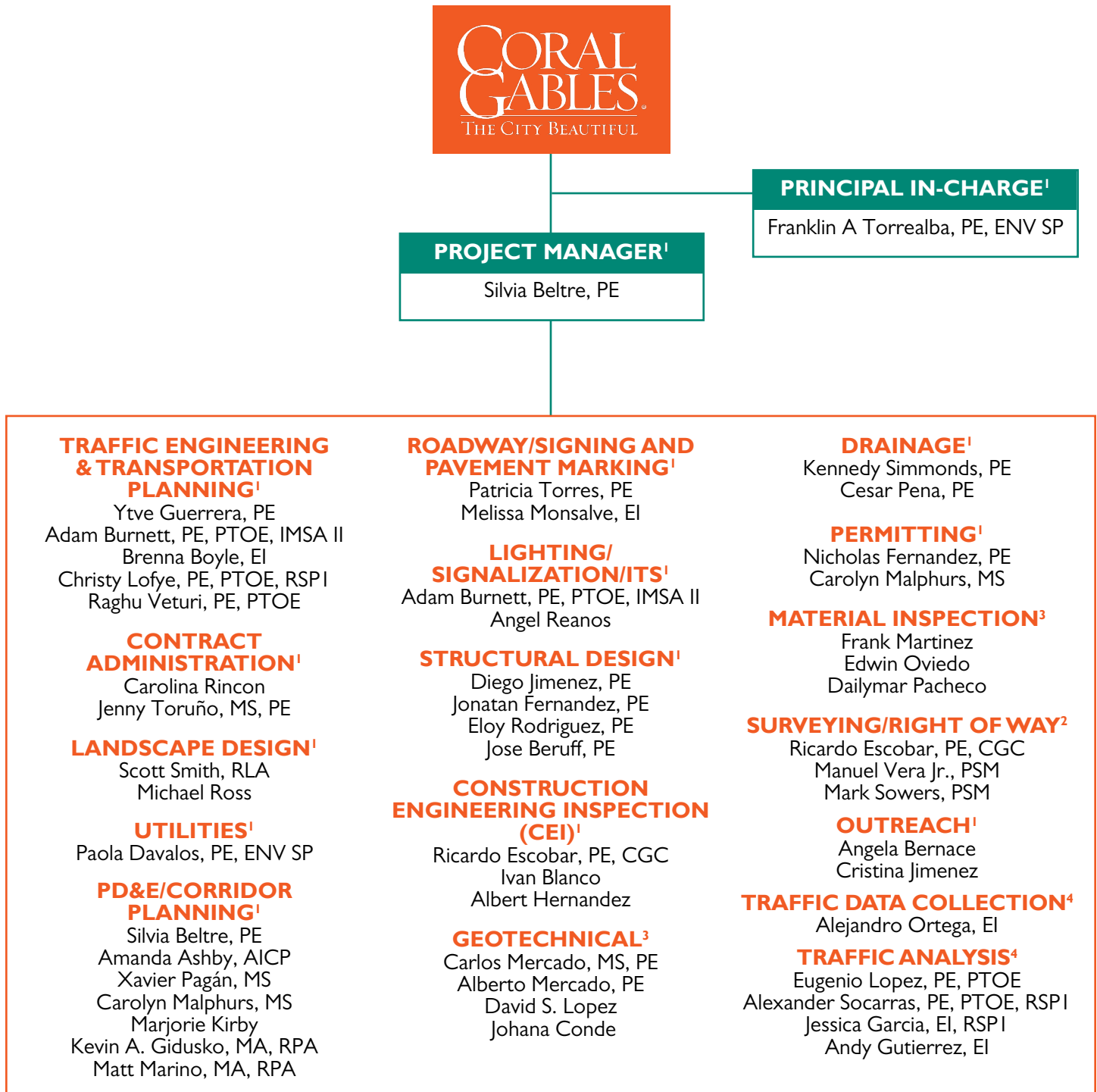
Choice understands the South Florida communities and the daily transportation challenges faced, whether dealing with a highly dense urban downtown area or the rural environment of the Florida Keys. Choice offers full-service traffic engineering experts to tackle any challenge. They provide innovative and cost-effective engineering solutions to the most complex traffic engineering challenges for both urban and rural situations. They provide professional traffic engineering services through the development of various traffic impact, operations, and safety studies identified for intersections and/or arterials while ensuring all improvement recommendations are properly vetted. This service area includes the development of safety and traffic operations studies such as Qualitative Assessments, Traffic Signal Warrant Analysis, Intersection Analysis, Traffic Impact Studies and Left Turn Phase Warrant Analysis as well as other traffic engineering-related studies, and public involvement. This expertise allows Choice to identify crash patterns and probable causes along with developing recommendations that can qualify for the use of Federal Safety Funds. In addition, they provide engineering research and coordination for reviewing Traffic Studies, MOT plans, roadway plans, signalization plans, and signing & marking plans from a traffic operations and safety perspective.

Choice was added to provide redundancy in Transportation Planning/Traffic Engineering and to support traffic data collection efforts. Their Traffic Data Collection Department focuses on delivering precise and accurate data. They employ an experienced and highly trained team whose goal it is to consistently deliver any data requested on time. They can provide the full range of service from data collection, processing, analysis, and recommendations for short term and long-term improvements.

Our team's depth of expertise and wide range of services is summarized in the following table which includes a summary of qualifications, and the roles and responsibilities under this RFQ for key team members. Should the City require types of expertise beyond those provided by the people presented in this section, we will provide the City with full access to ARDURRA's staffing resources.

NAME / ROLE/ RESPONSIBILITIES	OVERVIEW / KEY QUALIFICATIONS
 <p><b>Franklin A Torrealba, PE, ENV SP</b>  <b>Role:</b> Principal in Charge  <b>Responsibilities:</b> Ensure that our Project Manager has all required resources in place to attain project objectives on time and within budget</p>	<ul style="list-style-type: none"> <li>• Principal-In-Charge for multiple City of Coral Gables projects</li> <li>• Experience in project management, program management, project planning, design, cost estimating, project controls, permitting, bidding and procurement</li> <li>• Responsibilities on engineering projects have included all aspects from conception and planning to design, construction and performance acceptance</li> <li>• Expertise in overall project administration, budgeting, and billing for numerous water, wastewater and stormwater projects</li> </ul>
 <p><b>Silvia Beltre, PE</b>  <b>Role:</b> Project Manager  <b>Responsibilities:</b> Assessing risks, recruiting team members, monitoring staff and subconsultants, budgeting, and tracking progress</p>	<ul style="list-style-type: none"> <li>• Managed more than 100 transportation projects and TWOs</li> <li>• Expert in transportation planning, project development, engineering, NEPA, and outreach</li> <li>• Contract Manager for multiple on-call contracts in overall project administration, budgeting, and billing</li> <li>• Experienced providing support services for on-call contracts including developing new policies, supporting program initiatives, developing and delivering statewide training and conducting various transportation planning and feasibility studies</li> </ul>
 <p><b>Ytve Guerrero, PE</b>  <b>Role:</b> Lead for Traffic Engineering and Transportation Planning  <b>Responsibilities:</b> Serving as Engineer or Record delivering Traffic Engineering and Transportation Planning assignments</p>	<ul style="list-style-type: none"> <li>• More than 24 years of experience managing Traffic Engineering, Transportation Planning, feasibility studies and leading traffic efforts on PD&amp;E Studies, traffic/revenue studies and planning efforts for a variety of city, county and FDOT clients</li> <li>• Proficient in CORSIM, SYNCHRO/SIMTRAFFIC, HCS</li> <li>• Experience leading a traffic team, interpreting results and compiling short and long-term recommendations</li> </ul>

## 2.6 Organizational Chart of Key Personnel



### OUR TEAM

1. Ardurra Group, Inc. / 300 Engineering Group, LLC
2. Manuel G. Vera & Associates, Inc.
3. Universal Engineering Sciences, Inc.
4. Choice Engineering Consultants, Inc.

## 2.7 Resumes



### Franklin Torrealba, PE, ENV SP – Principal

Mr. Torrealba has managed more than 1,000 projects from conception to completion, including several road and drainage projects for the City of Coral Gables for the last 8 consecutive years. He has spearheaded the design of 185 miles of water and wastewater pipelines ranging from 8 to 144-inch in diameter, and the construction of 45 miles of pipelines ranging 8 to 36-inch in diameter. Mr. Torrealba has functioned in the capacity of Project Manager/Contract Manager, Deputy Program Manager/CM, Program Manager/CM, and Deputy Program Manager/Assistant Chief

Engineer for six of the largest renewal, replacement and rehabilitation projects in South Florida. He has assisted our clients in avoiding millions of dollars in potential penalties. Mr. Torrealba's construction management experience includes pre-construction meetings, constructability review, procurement support, regular site visits, close tracking of construction progress, construction inspection, QA/QC, shop drawing management, as-built management, construction regulatory, environmental, health and safety compliance, contract schedule, budget control, community liaison, project acceptance and closeout services. Mr. Torrealba has worked for multiple agencies and municipalities in South Florida and possesses a proven track record of delivering quality projects, under budget and on schedule. Under this RFQ, Mr. Torrealba will ensure that our Project Manager has the resources in place to attain project objectives on time and within budget.

#### EDUCATION

MBA, Loyola University, New Orleans, 1991

BS Civil Engineering, University of New Orleans, 1986

#### REGISTRATION

Professional Engineer #56385  
State of Florida

#### CERTIFICATIONS/AWARDS

Envision Sustainability  
Professional (ENV SP)

NASSCO (PACP, LACP, MACP)

#### City of Coral Gables, Miscellaneous City-wide Stormwater System Improvements (Design and Permitting Services) Coral Gables, FL

*Principal in Charge* for the design to upgrade drainage systems within the City. 300 Engineering is providing engineer of record and permitting services for miscellaneous City-wide stormwater system improvements, including: exfiltration trenches, drainage wells, pipeline system and/or outfalls. Under this contract, 300 Engineering has delivered the required grading & drainage plans and construction documents for multiple stormwater projects, where our team has evaluated the existing condition of drainage infrastructure and designed the most cost-effective solution, tailored to each case's needs. Mr. Torrealba served as principal in charge and provided permitting expertise and technical guidance for this project.

#### Traffic Calming along Aragon Ave and Giralda Ave - City of Coral Gables, FL

Mr. Torrealba served as the **Principal-In-Charge** for the design of roadway improvements for two (2) residential roads within the City of Coral Gables. These roads, Aragon and Giralda Ave., run East/West from Segovia St. to S. Le Jeune Rd. The scope of the project included designing a Traffic Calming plan for this area, including but not limited to, installation of a raised intersection (speed table), installation of brick paver entrances from major roads indicating to drivers the area is residential, and the installation of a curbed island. In addition, 300 Engineering was tasked with improving the stormwater infrastructure conditions within this project area through the installation/relocation of stormwater structures, and regarding the roadway.

#### City of Coral Gables City-Wide Assessment of Pump Station Telemetry System (SCADA) | Coral Gables, FL

*Principal in Charge* for the assessment of the SCADA system that is used to monitor and control 35 sewer pump stations, 2 stormwater pump stations and a water gate. The assessment includes the evaluation of the current system's reliability, reporting and remote-control and monitoring capabilities. 300 Engineering developed a conceptual design that will be used as a standard for the implementation of the new SCADA solution. Additionally, the project included the preparation of a phased approach plan, prioritization of pump stations to ensure a smooth transition to the new SCADA system, Opinion of Probable Construction Cost, and a Master Phased Schedule including Design, Procurement, Construction and Commissioning phases, as well as project implementation assistance.

#### City of Coral Gables Water Quality Monitoring Assessment Plan – Phase I Municipal Separate Storm Sewer System (MS4) Permit – Principal-In-Charge – Coral Gables, FL

Mr. Torrealba was the **Principal-In-Charge** for the creation of a stormwater monitoring assessment plan for the City of Coral Gables. The goal of the Monitoring Plan was to determine the overall effectiveness of the City's Stormwater Management Program (SWMP) in reducing stormwater pollutant loadings from its Municipal Separate Storm Sewer System (MS4) to receiving water bodies. The 300 Engineering team coordinated with the City and prepared the Assessment Program to comply with the Florida Department Environmental Protection (FDEP) MS4 Permit.

**Coral Gables, FL**

Mr. Torrealba served as **Principal-In-Charge** responsible for performing a system flow evaluation in order to identify basins above the 5,000 GPDIM Infiltration and Inflow (I/I) threshold specified in the Miami-Dade County Code. 300 Engineering performed wet season night flow monitoring by a combination of field investigations, and analysis of the City's Supervisory Control and Data Acquisition (SCADA) system data. Additionally, 300 Engineering analyzed the relationship between system-wide wastewater flows and rainfall, groundwater and tidal elevations for the one-year period of 2019. 300 Engineering prepared the City's Third Cycle Phase 1 and 2 SSES Report for submittal to the Miami-Dade County Department of Regulatory and Economic Resources (RER) Division of Environmental Resources Management (DERM).

**City of Coral Gables Annual Report for Individual NPDES Permits for Municipal Separate Storm Sewer Systems – Principal-In-Charge – Coral Gables, FL**

As **Principal-In-Charge**, Mr. Torrealba assisted the City of Coral Gables in completing and submitting Annual NPDES Reports for the 2018 and 2019 reporting periods in order for the City to remain in compliance with Miami-Dade County Department of Environmental Resources Management (DERM). Services included reaching out to Florida Department of Environmental Protection (FDEP), DERM, and different municipal departments for data collection and completion of report. The 300 Engineering team performed quality checks to ensure the information received was accurate and correct. 300 Engineering has assisted the City with their annual NPDES Reports since 2017. All reports were performed within the established budget and the City was able to submit the NPDES Reports ahead of schedule.

**City of Coral Gables Stormwater Infrastructure Verification & Geographic Information System (GIS) Updates – Principal-In-Charge – Coral Gables, FL**

Mr. Torrealba is **Principal-In-Charge** for project oversight which includes data collection, field verification, GIS digitization of Assets, QA/QC, and the creation and update of a GIS Web-viewer. Data collection efforts include collecting, compiling and analyzing pertinent drainage infrastructure data. Field verification activities include locating drainage assets using a GPS Trimble Unit to geolocate the observed infrastructure (manholes, catch basins, outfalls, infiltration trenches, drainage wells, among others.) and capturing relevant data. Horizontal coordinates and elevations of assets, including rim, invert and bottom of structures are obtained, if accessible. The project also includes a visual asset condition assessment, including photographic record of the assets.

**City Coral Gables Wastewater Infrastructure Geographic Information System (GIS) Annual Updates – Principal-In-Charge – Coral Gables, FL**

Mr. Torrealba was the **Principal-In-Charge** for the annual wastewater GIS updates for the City of Coral Gables. As a Volume Sewer Customer to Miami Dade County, the City is required to provide annual updates of their Wastewater GIS Database to the Florida Department of Environmental Protection (FDEP) and the Miami Dade Regulatory Economic Resources (MD-RER) in an annual basis. Tasks include field inspections, As-built digitization to GIS, and GIS optimization for wastewater assets including gravity mains, force mains, pump stations, private pump stations, valves, etc. Additionally, the project includes GIS updates for SSES and CIPP data regarding yearly I/I inspections and repairs carried out by the City.

**\$215M Pump Station Improvement Program (PSIP) Miami Dade County – Program, Design & Construction Management and Support Services | Miami-Dade County, FL**

**Program Manager** for the upgrade of the Wastewater Collection and Transmission System (WCTS). Mr. Torrealba has ensured that all regulatory mandated deadlines are met. Additionally, he implemented protocols to bring significant savings to the infrastructure upgrade projects. The Program included pump stations (113) and force mains (34) pursuant to which each pump station must be certified as capable of meeting a nominal average pump operating time (NAPOT) of less than or equal to 10 hours per day. The program aims to bring into compliance 113 sewage pump stations that do not comply with the NAPOT and Peak Flow Criterion.

**USEPA Consent Decree – Program, Design & Construction Management and Support Services | Miami-Dade County, FL**

**Task Manager** for the Wastewater Collection and Transmission System (WCTS) Task. Mr. Torrealba assisted the Department providing Program, Design, and Construction Management Services related to the Wastewater System Priority Projects, including WASD's third Consent Decree with the United States Environmental Protection Agency (USEPA). Mr. Torrealba acted as the Task Manager for a total of fifty-two (52) Force Mains and forty-one (41) Pump Station projects, responsible for the management of engineering tasks (including hydraulic modeling), design and construction of these projects.



## Silvia M Beltre, PE – Project Manager



Silvia has more than 30 years of experience and has been project manager, engineer of record or senior project engineer on several Transportation Planning/Traffic Engineering studies, Project Development and Environment (PD&E) studies, and highway and bridge final design projects. As Contract Manager for the Office of Environmental Management, Silvia led the Florida Department of Transportation efforts to apply for and implement the Surface Transportation Project Delivery Program (NEPA Assignment). She

has also led several local and statewide initiatives in support of on-call contracts including expanding the Statewide Acceleration and Transformation (SWAT) program, development of training for the Alternative Corridor Evaluation (ACE) process (FDOT's approach to Planning and Environmental Linkages), creation of the statewide FDOT Permit Handbook, and development of a Public Involvement Handbook, public involvement brochures and public facing as well as client training collaterals to support FDOT's approach to Context Sensitive Solutions (CSS). CSS topics included transportation design for livable communities, pedestrian, bicycle, & greenways information, landscaping, aesthetics, environmental preservation, travel speeds & relationship to safety, mid-block crossings, trees & clear zones, and lane width. On this RFQ, Ms. Beltre will be responsible for assessing risks, recruiting team members, monitoring staff and subconsultants, budgeting, and tracking progress.

### **Project Development and Environment (PD&E) Study for SR 836 Southwest Extension from NW 137th Avenue to SW 136th Street | Miami-Dade Expressway Authority (MDX)**

*Project Manager for complex transportation study. This study proposes a new transportation corridor extending SR 836 in the southwest region of Miami-Dade County. The project is envisioned as a 4-lane limited access, tolled facility that will provide better mobility, connectivity and enhanced accessibility. Several alternatives in different corridors were considered and evaluated through the Alternative Corridor Evaluation (ACE) process. The project is a complex mosaic of natural, cultural and community features. A comprehensive Public Involvement Plan (PIP) was carried out to involve concerned stakeholders. The PIP included the following techniques: 1) Environmental Forum (agencies and environmental groups), 2) Citizens Advisory Committee, 3) Cultural Resource Committee, 4) Scoping meeting, 5) Corridor Workshop, 6) bi-lingual (Spanish) collaterals and 7) website updates.*

### **SR-9/I-95 from South of SR-870/Commercial Blvd to North of Cypress Creek Road FDOT District 4 | Broward County, FL | FM 435808-1-22-01**

*Project Manager for this study to increase capacity on I-95, the interchanges at Commercial Boulevard and Cypress Creek Road, and the adjacent intersections to both interchanges. The project was evaluated to improve safety and accessibility within the study area, including access to I-95 and the adjacent arterial intersections. Secondary considerations for the purpose and need of this project include system linkage, modal interrelationships, transportation demand, social demands and economic development, evacuation, coordination with adjacent projects and building consensus via Public Involvement. The improvements proposed as part of this project complement the I-95 Express Lanes improvements with the addition of auxiliary lanes in both the northbound and southbound directions. Key components of the study included coordination with the Park and Ride facility to facilitate ingress/egress and incorporate transit needs*

### **FDOT State Environmental Management Office Consulting, | FM #407085-1-32-04, 415064-2-22-21, 415064-3-2819, and 190970-1-A1-01 | Task Work Order Assignment – NEPA Assignment**

*Project Manager for the now Office of Environmental Management (OEM) Support Contract. Led the development of FDOT's application to the Surface Transportation Project Delivery Program (NEPA Assignment). This effort included interviewing the states of California, Texas and Ohio to assess best practices and lessons learned from their efforts, conducting a statewide readiness assessment to identify FDOT program needs in advance, coordination with FDOT Central Office, FDOT Districts, FHWA and outreach to regulatory agencies,*

## EDUCATION

Bachelor of Science in Civil Engineering - Cum Laude, University of Miami, Coral Gables, Florida, 1992

Bachelor of Science in Architectural Engineering – Cum Laude, University of Miami, Coral Gables, Florida, 1992

Training, Public Involvement & Socio-cultural Effects Evaluation, Florida, 2012

Training, ETDM, Florida, 2012

Training, FDOT, Traffic Engineering, 2012

Training, FDOT, Project Management, 2012

Training, FDOT, Environmental Management, 2012

PD&E Process Overview Training, Coral Gables, Florida, 2009

FHWA Audit, Training, Florida, 2017

Certification, FDOT, Advanced Work Zone Traffic Control, 2012

FHWA Legal Sufficiency, Training, Florida, 2017

## REGISTRATIONS

Professional Engineer #51295, State of Florida

## NOTE

\* Denotes project completed under previous employment.

Native American Tribes and the general public. Task activities included development of a training program to support statewide implementation.

### **Task Work Order Assignment – Statewide Acceleration Transformation (SWAT)**

**Project Manager** for the now Office of Environmental Management (OEM) Support Contract. Led the development, implementation and statewide training to expand the Statewide Acceleration Transformation (SWAT) process. SWAT is a holistic approach to project scoping looking for efficiencies and opportunities to overlap project phases to accelerate overall project delivery from planning to construction. Specifically, SWAT sought to better link Planning and PD&E and PD&E and Design. The linkages were meant to streamline the processes and the required schedules. The Workbook developed for the statewide training outlines a process for experienced, cross functional, team members to thoroughly consider a project's complexities, scope, and priority to better inform Work Program Development, project schedule, class of action and funding type decisions (Federal vs. Non-federal funding); prior to project start date. Collaterals included a SWAT workbook along with various training modules to conduct in person training at every FDOT District in the state.

### **Task Work Order Assignment – Permit Handbook**

**Project Manager** for the now Office of Environmental Management (OEM) Support Contract. Led the development of FDOT's Permit Handbook which provides a practical guide for permitting transportation projects. The guidebook provides information on how and when to coordinate with regulatory agencies and internal FDOT coordination and helps to navigate the process from the early stages of planning through Project Development and Environment (PD&E) through design, construction and even some maintenance activities.

### **Task Work Order Assignment – Alternative Corridor Evaluation Process Training**

**Project Manager** for the now Office of Environmental Management (OEM) Support Contract. Led the development of FDOT's statewide training for the Alternative Corridor Evaluation (ACE) process. The purpose of ACE was to develop planning products that could be adopted into the PD&E Study, especially NEPA, and focus analysis to streamline the level of documentation and the schedule. The ACE process is an effective, documented approach, which can be applied at the Corridor Planning level to establish potential alternative alignments and eliminate unreasonable ones from further evaluation. Key components of this task including interviewing with regulatory agencies and practitioners to identify best practices and lessons learned. Collaterals included an in-depth presentation with details supporting the creation of an ACE Methodology Memorandum and subsequent ACE Report. When and how to coordinate with jurisdictional agencies and the public were included as part of the training. Sample projects and issues were also presented.

### **Project Development & Environment (PD&E) Study Districtwide Consultant Contract 3 | FDOT District 4 | FM 417073-5-22-01 |**

#### **Task Work Order Assignment – Virtual Public Engagement and Project Website Support**

**Project Manager** for this PD&E Study Districtwide Consultant Contract. Led assignment to investigate best practices to conduct hybrid public engagement as a result of the COVID pandemic. Efforts including interviewing six states and identifying various innovative approaches to engagement during the pandemic and any lessons learned from their efforts. The results of research efforts culminated in a report recommending strategies and considerations for various approaches.

### **Project Development & Environment (PD&E) Study Districtwide Consultant Contract No. 1, 2 & 3 | FDOT District 4**

#### **Relevant Assignments | Public Outreach for ETDM**

**Assisted with support services for the ETDM program, acting as the Community Liaison Coordinator, working with agencies during the environmental screening process for multiple projects. Services include public outreach in order to support screening events; as well as assistance in completing the screening for the following SCE issues in the EST: Aesthetics, Economic, Land Use, Mobility, Relocation and Social.**

#### **Relevant Assignments Spanning from 2005 – 2015 | Context Sensitive Solutions**

**Project Manager** for the development of a table display board to provide the general public with information about Context Sensitive Solutions (CSS) and training materials to support the D4 CSS training. Collaterals included two CSS brochures covering RRR and PD&E projects as well as the three table display setups for 1) PD&E. 2) RRR and 3) in-house training. CSS topics included transportation design for livable communities, pedestrian, bicycle, & greenways information, landscaping, aesthetics, environmental preservation, travel speeds & relationship to safety, mid-block crossings, trees & clear zones, and lane width to name a few.

## Ytve Guerrero, PE – Traffic Engineering/Transportation Planning Lead



Ytve Guerrero has over 24 years of experience in transportation engineering, planning, design and project management. Ytve's primary areas of focus have been project development, transportation planning, transportation engineering, corridor analyses and traffic engineering. She has served as a senior transportation engineer/project manager on a variety of projects including project development, transportation engineering, traffic/revenue studies and transportation planning assignments for various agencies such as Florida Department of Transportation

(FDOT), Greater Miami Expressway Agency (GMX) (formerly known as MDX), Miami-Dade Transportation Planning Organization (TPO) and Miami-Dade Department of Transportation and Public Works (DTPW). Ytve is proficient in CORSIM, SYNCHRO/SIMTRAFFIC, HCS. She is knowledgeable in other computer applications such as VISSIM and Micro-station.

### Transportation Program Support Services, City of Miami \*

**Project Manager** responsible for managing and overseeing the development of several task work orders that consider transportation improvements and traffic analysis for different areas within the jurisdiction of the City of Miami. Some of the assignments required review of the Traffic Impact Study (TIS) submitted to the City by the different developers as well as traffic analysis such as the one conducted for Brickell Bay Drive One-Way Conversion. This traffic analysis included the evaluation of existing and future (once the One-Way Conversion was implemented) traffic conditions. Evaluation of existing conditions included traffic data collection, identification and development of balanced peak hour volumes and assessment of the current level of service using Synchro. The analysis of future conditions traffic operations considered two alternatives (No-Build and Build Scenarios) and included the development of travel demand projections, traffic signal optimization, recommendations for geometric design improvements at different intersections' approaches and estimation of future level of service. A safety analysis was also performed using historical crash data downloaded from FDOT database (CARS).

### General Planning Consultant Services, Miami-Dade County MPO\*

**Project Manager** responsible for overseeing a variety of task work orders that consider complex traffic engineering analysis such as the SW 8th Street Corridor Grade Separation Study. The SW 8th Street Corridor Grade Separation Study entailed evaluation of existing and future traffic operations conditions (arterial and intersection level of service analysis) using Synchro. Evaluation of existing conditions included traffic data collection, identification and development of balanced peak hour volumes and assessment of the current level of service using Synchro. The analysis of future conditions traffic operations considered two alternatives (No-Build and Build Scenarios) and included the development of travel demand projections, traffic signal optimization, recommendations for geometric design improvements at different intersections' approaches and estimation of future level of service. A safety analysis was also performed using historical crash data downloaded from FDOT database (CARS).

### Downtown Transit Circulator Study, Downtown Development Authority (DDA) \*

**Lead Traffic Engineer/Task Manager** for the traffic simulation analysis to be included in the Environmental Assessment Report developed for this multimodal study. Analyzed existing and future traffic conditions using VISSIM as the microsimulation package and evaluated alternative proposed alignments of a future rail transit system in Downtown Ft. Lauderdale. The proposed improvements are multimodal in nature as they include bus, rail and roadway improvements. The transit system is projected to share the lanes with vehicular traffic.

### Districtwide Management Systems Short Range Project Development Consultant, FDOT District 6, \*

**Project Engineer/Assistant Project Manager** to cover a range of miscellaneous tasks such as developing ESALs calculations, performing intersection analyses and assisting the Department with the assessment of the current Traffic Monitoring Program. Assisted the Department with the Enhanced Pavement Management System which includes reviewing the roadway segments that have been selected to undergo pavement rehabilitation in order to identify additional deficiencies that should be resolved in conjunction with pavement rehabilitation. The objective of this task is to develop more accurate cost estimates that will account for repair/construction of additional roadway features that need to be addressed in the resurfacing, restoration and rehabilitation (RRR) projects.

#### EDUCATION

Bachelor of Science in Civil Engineering, University of Miami, Miami, Florida, 1999

Master of Science in Civil Engineering, Florida International University, Miami, Florida, 2004

#### REGISTRATIONS

Professional Engineer #73534, State of Florida

Professional Engineer #035626, State of Georgia

#### NOTE

\* Denotes project completed under previous employment.

**Districtwide Project Development and Environment (PD&E) Traffic Consultant, FDOT District 6 \***

**Lead Traffic Engineer/Task Manager/Project Manager** for various task work orders that have ranged from development of Scoping Reports to traffic analysis of different alternatives for roadway improvements to be implemented at the I-95 Golden Glades Interchange with SR 826/Palmetto Expressway.

**Strategic Intermodal System (SIS) Master Plan Contract, FDOT District 6, Miami-Dade County \***

**Lead Traffic Engineer and Task Manager** for the traffic analysis performed on the intersection SR 836/Dolphin Expressway eastbound off-ramp to southbound of NW 27th Avenue. This project included development of various alternatives to improve the existing bottleneck caused by the intersection of NW 27th Avenue and NW 11th Street that impacts the eastbound ramp resulting in spillback into SR 836/Dolphin Expressway mainline.

**SR 836/Dolphin Expressway Extension(from SW 107th Avenue to SW 137th Avenue), MDX \***

**Project Engineer** who developed traffic simulation files for the various alternatives for the future SR 836 alignment west of NW 87th Avenue. Simulations also included different toll plaza layouts that implemented the use of express Sunpass lanes and dedicated Sunpass lanes. Prepared the technical memoranda documenting existing and future traffic conditions along the corridor-based on the results obtained from the simulations of existing and future conditions. Prepared traffic data for the environmental analysis used in the quality and noise studies.

**SR 821/HEFT PD&E Study from SR 836/Dolphin Expressway to NW 57th Avenue/Red Road, Florida's Turnpike Enterprise \***

**Lead Traffic Engineer** responsible for developing a safety analysis for a 19-mile segment of SR 821/HEFT. The safety analysis included evaluation of the SR 821/HEFT mainline as well as intersecting arterials (NW 12th Street, NW 41st Street, NW 106th Street, Okeechobee Road and NW 57th Avenue/Red Road). The safety analysis included identification of high crash locations, as well as determination of the most common type of crashes and potential recommendations for the most common type of crashes observed.

**SW 137th Avenue Reconstruction from SR 821/HEFT Interchange to SR 5/US 1, Miami-Dade County Public Works Department**

**Lead Traffic Engineer** responsible for developing a Traffic Signal Warrant Analysis for the intersection of SW 137th Avenue and SW 272nd Street.

**SW 264th Street/SW 268th Street Connector, Miami-Dade County Public Department \***

**Project Manager/Senior Project Engineer Manager** responsible for reviewing and commenting on the Traffic Analysis Report developed by a subconsultant. The project included reviewing traffic projections, development of traffic generation by new land-uses, traffic re-assignment, etc.

**I-75 PD&E Study from Moccasin Wallow Road to Fletcher Avenue, FDOT District 7\***

**Lead Traffic Engineer/Task Manager** for the traffic simulation analysis to be included in the Environmental Assessment Report developed for this multimodal study. Analyzed existing and future traffic conditions using VISSIM as the microsimulation package and evaluated alternative proposed alignments of a future rail transit system in Downtown Ft. Lauderdale. The proposed improvements are multimodal in nature as they include bus, rail and roadway improvements. The transit system is projected to share the lanes with vehicular traffic.

**SR 924/Gratigny Expressway Traffic Control Plans, MDX\***

**Project Engineer** who reviewed the Traffic Control Plans developed for maintaining traffic flow for temporary closure of SR 924/Gratigny Expressway. Variable Message Signs (VMS) were utilized along the expressway and the cross arterials to alert and guide drivers through the detour. Provided comments concerning the location of the VMS and the displayed messages. Developed the traffic analysis using the 72-hour counts collected by FDOT traffic count stations and recommended the best time during the day for conducting the Expressway closure.



## Christy Lofye, PE, PTOE, RSP<sub>1</sub> – Traffic Engineering/Transportation Planning Support



Christy Lofye, PE, PTOE, RSP<sub>1</sub>, works with ARDURRA's PD&E group leading Traffic and Safety Studies. Ms. Lofye has experience conducting road safety audits, capacity studies, traffic safety studies, alternative road impact fee studies, and pedestrian/bicycle safety studies and has overseen signalization and signing and pavement marking design projects. She also has extensive public involvement experience leading public meetings and stakeholder outreach. She has thorough knowledge of FDOT design criteria and was a 2018 Florida Greenbook technical advisor.

### EDUCATION

Bachelor of Science in Civil Engineering, University of Central Florida, Florida, 1989

### REGISTRATIONS

Professional Engineer #48129  
State of Florida

Professional Traffic  
Operations Engineer No. 5333

Road Safety Professional,  
Florida, No. 490

### NOTE

\* Denotes project completed under previous employment.

### SR 60 at Moon Avenue Signal Warrant Analysis | FDOT District Seven

**Project Manager** for this signal warrant analysis. The SR 60 at Moon Avenue intersection had temporarily been converted to a bi-directional left median opening using tubular markers due to a history of left/angle crashes. This project included traffic data collection, a qualitative analysis, preparation of a condition diagram, crash summary, signal warrant forms, and Stage 1 ICE analysis and study report.

### SR 60 Access Management Studies | FDOT District Seven

**Project Manager** for access management studies performed to evaluate the impact of proposed median modifications along SR 60 at three locations. Analysis was conducted to evaluate conversion of the Margaret Street full median opening to a right-in/right-out connection, permanently convert the full median opening at Moon Avenue to a bi-directional median opening and close the Edwards Street opening in the concrete separator. Synchro analysis was conducted for design year AM and PM peak hours. The study recommendations will be incorporated into the SR 60 from E Buckingham Place to E of Lithia Pinecrest Road RRR project.

### SR 544 (Lucerne Park Rd) from Ave T NW to SR 17 PD&E Study, Polk County | FDOT District One

**Senior Engineer** responsible for evaluating access management and safety improvements and the addition of bicycle and pedestrian features along SR 544 (Lucerne Park Road) from Martin Luther King Boulevard to SR 17 in Polk County, Florida. The project included the evaluation of several existing intersections within the project limits to determine the best design alternative. These alternatives included roundabouts, signalized intersections, and a single-point urban interchange (SPUI).

### SR 551 (Goldenrod Road) Pedestrian Crossing Study | FDOT District Five

**Project Manager** for this project to evaluate the need for additional pedestrian crossing opportunities across Goldenrod Road for the 1-mile stretch from Bates Road to University Boulevard in response to a citizen request. This study included traffic, pedestrian crossing volume, and LYNX ridership data collection and analysis, a pedestrian gap study, preparation of a condition diagram, crash summaries, collision diagrams, and evaluation of warrants for a Pedestrian Hybrid Beacon (PHB). Benefit/cost and net present value (NPV) analysis was conducted, and recommended improvement concepts were prepared for both interim maintenance and the ultimate improvement. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.

### SR 44 at Vivienne Drive, Sumter County | FDOT District Five

**Project Manager** for this study to conduct a signal warrant analysis and access management review, including qualitative analysis, crash summary and crash diagram, signal warrant forms, Stage 1 and 2 ICE analysis, benefit-cost and net present value analysis, and preparation of a report. Additionally, permits and future development plans were reviewed to estimate future turning movement volumes for operational analysis and recommended future traffic control. Concept plans were prepared for interim maintenance improvements, as well as traffic signal and signalized RCUT alternatives. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.

### **SR 46 at Richmond Avenue, Seminole County | FDOT District Five)**

*Project Manager* for this project that included traffic data collection, a qualitative analysis, a crash summary and crash diagram, a review of adjacent parcel development plans and permits, an evaluation of drainage and environmental permitting needs, and the development of alternatives and recommendations. Concept plans were prepared for interim maintenance improvements, as well as long-term improvements for the addition of a left turn lane, corner radius reduction, and the addition of guardrail. Benefit/cost and NPV analysis were conducted to financially justify the proposed improvements. This is a TWO under a Districtwide Traffic Safety Studies & Highway Design contract.

### **PD&E Services for Cove Road from SR 76/Kanner Highway to SR 5/US 1 | Martin County (FDOT District Four)**

*Senior engineer* responsible for preparation of the HSM Safety Analysis Technical Memorandum. This project is to evaluate the social, economic, and environmental impacts of widening the existing two-lane roadway to a four-lane one. The safety analysis includes historical crash data analysis and completion of HSM analysis for existing, opening, and design years for No-Build and two Build alternatives using the Predictive Method. This analysis results in a comparison of safety performance measures for each alternative, including predicted average crash frequency by crash severity. The project also includes ICE analysis to evaluate intersection improvements for both safety and capacity.

### **Williamsburg Area Transportation Study | Orange County**

*Project Manager* responsible for preparation of the Safety Analysis Technical Memorandum for this Orange County study. This project's goal was to identify specific traffic issues impacting residents of the Williamsburg Area, such as neighborhood traffic calming and cut-through traffic, as well as to provide recommendations to improve the overall safety of the community. The study area included neighborhoods east and west of Orangewood Boulevard between the Beachline Expressway (SR 528) and the Central Florida Parkway, and neighborhoods south of Central Florida Parkway and Orangewood Boulevard.

### **Orange County Top 100 Intersections Project\***

*Orange County Project Manager* for this study to determine the County's Top 100 intersections by crash rate. The project included network screening using Signal four Analytics to identify the top intersections for pedestrian and total crash frequency, collection of intersection approach and turning movement counts, calculation of crash rates, and ranking and prioritization of intersections with the highest crash rates. The intersections were further stratified by intersection control type to identify countermeasures that could be applied systemically. Field intersection inventories were conducted, prompt lists completed, and intersection characteristics identified, including upgrades needed for ADA compliance, resulting in immediate action items and/or recommendations for more detailed study and analysis.

### **Texas-Americana Road Safety Small Area Study\***

*Project Manager* for this in-house Orange County study, which won a 2015 National Road Safety Award in the Program Planning, Development, and Evaluation category. The project consisted of 6.7 miles of urban roadway studied in response to a cluster of intersections with high crash frequencies and a significant number of pedestrian crashes within a small area. The project included a comprehensive, multimodal road safety audit conducted during daytime and night periods, public involvement and stakeholder outreach, safety education, and a bike-helmet fitting event. The study resulted in recommendations for maintenance improvements and short-term, mid-range, and long-term CIP projects.

### **Oak Ridge Road Pedestrian/Bicycle Safety Study\***

*Orange County Project Manager* for this 3.0-mile corridor safety study from Millenia Boulevard to Orange Blossom Trail (US 441) conducted in 2017. The study included traffic data collection, crash data analysis, access management, traffic modeling and development of design traffic, traffic operations analysis, multi-modal LOS analysis, and development of pedestrian/bicycle safety countermeasures and strategies. Responsibilities included consultant management and oversight, review of project reports, and coordination with project stakeholders, elected officials, and public involvement.

### **Bithlo/Christmas Rural Road Safety Study\***

*Project Manager* for this in-house Orange County study, which won the 2010 FACERs Team Project of the Year. The project included a comprehensive, multimodal road safety audit conducted during both daytime and night-time periods, public involvement, and stakeholder outreach. The study resulted in recommendations for maintenance improvements and short-term, mid-range, and long-term CIP projects. Ms. Lofye successfully received HRRRP safety grant funding through FDOT D5 for improvements to the Fort Christmas Road/Wheeler Road intersection to reduce road departure crashes. She also successfully received HSIP safety grant funding through FDOT D5 for the addition of paved shoulder to Fort Christmas Road to reduce road departure crashes.



## Patricia Torres, PE | Roadway Design

Senior Project Engineer and Engineer of Record (EOR) for multimillion dollar roadway and Design Build (DB) projects for more than 19 years. Patricia has significant experience in highway design, lighting, temporary traffic control, pavement management, traffic operations and signalization, transportation planning and safety. Experienced in design and management of numerous transportation projects and has extensive experience in managing projects with complex geometric and constructability challenges. Adept in the knowledge of managing design scope, schedule, budget, and large, complex transportation infrastructure projects.

### EDUCATION

Master of Science in Environmental Engineering, Florida International University, 2011

Bachelor of Science in Civil Engineering, Florida International University 2007

### REGISTRATIONS

Professional Engineer #77974, State of Florida

### NOTE

\* Denotes project completed under previous firm.

#### **SR 826/SR 836 Interchange Reconstruction, Miami-Dade County | FDOT District 6 \***

**Senior Project Engineer/Temporary Traffic Control (TTC) Engineer** for the complex TTC scheme for the reconstruction of this \$560 million, four-level interchange in the heart of Miami-Dade County. The project includes the reconstruction of 2 miles of SR 826 from SW 8 Street to NW 25 Street and approximately 3 miles of SR 836 from NW 87 Avenue to NW 57 Avenue, to provide 5 lanes in each direction along the mainline plus new EB and WB CD roads along SR 836. A total of 47 new bridges were constructed (7 steel bridges, 36 Florida I-beam bridges and 4 segmental bridges). Other improvements included retaining walls, lighting, sound walls, canal relocation, utilities JPA plans, signalization, new signing and pavement markings, new ITS, and special aesthetic features. Extensive stakeholder coordination was required with FDOT, MDX, MDC Water & Sewer, utility owners, MIA, CSX Transportation, DERM, and SFWMD, etc.

#### **SR 70 From Lorraine Road to Bournside Boulevard, Manatee County | FDOT District 1**

**Senior Roadway Engineer** for this \$72 Million DB project for the widening of 2.9 miles of SR 70 from a 2-lane rural roadway to a 6-lane urban roadway between Lorraine Rd. and Greenbrook Blvd./Post Blvd. and a 4-lane urban roadway between Greenbrook Blvd./Post Blvd. and Bournside Blvd. Additional improvements include: 3 roundabouts, bridge culvert replacement, signalization, ITS, lighting, shared use paths, landscape, and utility relocation work for Manatee County (UWHC Agreement).

#### **Golden Glades Interchange (SR 826/Palmetto Expressway EB Ramp to SR-9A/I-95 NB), Miami-Dade County | FDOT District 6 \***

**Senior Project Engineer/Lead Technical Engineer** for this project which includes the construction of 4 new bridges and 3 widenings. The GGI is of regional importance providing connectivity to six major principal arterials and/or limited access expressway facilities including I-95/SR 9A, SR 9, SR 91 (Florida's Turnpike), US-441/SR 7 and SR 826. The primary purpose of this project was to provide a direct connect ramp from SR 826 EB to I-95 NB. Additionally, the project will improve the Turnpike SB to the I-95 SB movement, enhance multimodal use for both transit and freight, and develop interim improvements within the GGI to enhance safety. The project involved the design of a complex TTC to minimize impacts to traffic while ensuring the safety of motorists and construction staff.

#### **Statewide Acceleration Transformation (SWAT) for the Widening of the Sawgrass Expressway (SR 869) from South of NW 8 Street Interchange to North of Atlantic Boulevard Interchange, Broward County, Florida | Florida's Turnpike Enterprise \***

**Senior Project Engineer** responsible for the widening and incorporation of an express lanes system along SR 869 (Sawgrass Expressway) for approximately 8 miles, from South of the NW 8 Street Interchange to North of the Atlantic Blvd. Interchange. This project included widening / reconstruction of SR 869, a new SB and NB CD system, a new Diversion Diamond Interchange at Sunrise Blvd., Oakland Blvd., and Commercial Blvd. Single Point Diamond Interchange (SPUI) at NW 8 Street. There are also seven toll sites through the project.

#### **New Direct Access along I-75 to SWFIA from South of Alico Road to Daniels Parkway, Lee County | FDOT District 1 \***

**Roadway Engineer** for this Design-Build project that provides direct connection from I-75 to the Southwest Florida International Airport (SWFIA) Mid-Field Terminal Facilities in Fort Myers which serves over 7 million passengers each year and is the second fastest growing airport in Florida. The project involves the construction of 5 bridges, and 5 miles of a four-lane C-D System adjacent to I-75 between Alico Road and Daniels Parkway with no net increase in the number of access points to/from I-75. It also includes construction of a 1-mile new Terminal Access Road (TAR) with interchanges at I-75 and Ben Hill Griffin Parkway that ultimately ties into the existing SWFIA Mid-Field Terminal Facility roadway.

#### **I-395/SR 836/I-95 Reconstruction Design-Build, Miami-Dade County | FDOT District 6 and Miami Dade Expressway Authority**

**Senior Project Engineer** for this project and assisting in the TTC throughout the three corridors. This I-395/SR 836/I-95 Design-Build improves capacity and safety in three of Miami-Dade's highways. This project boasts a double-decker bridge over the SR 836 and Miami River, new lanes along I-95, a new Signature Bridge at I-395 over Biscayne Boulevard, and a 55-acre Heritage Trail underneath I-395 which will connect Downtown Miami and revitalize the Overtown community. This project also includes roadway lighting, streetscape lighting, approach span aesthetic lighting, Signature Bridge aesthetic lighting, Intelligent Transportation Systems, streetscaping and landscaping.



## Nicholas J Fernandez, PE | Permitting Specialist



Mr. Fernandez has worked as project manager for various pipeline projects ranging from 8-Inch to 24-Inch in size. In addition, he is the engineer of record for various stormwater improvement projects for the City of Coral Gables. He is also the dedicated Sea Level Rise engineer within ARDURRA / 300 Engineering Group, LLC. Mr. Fernandez not only brings design expertise to the team, but he is also a highly qualified permitting specialist who has extensive experience with local permitting agencies. He checks plans for completeness ensuring conformity with codes, ordinances and regulations. He facilitates plan check review through early and

continuous communication with the appropriate permitting agency staff and tracks plans during the review process to ensure approvals and/or corrections are done in a timely basis. He proactively responds both orally and in writing to inquiries and coordinates RFI's with engineers, contractors, and other stakeholders concerning submittal requirements and RFI responses., contractors, and other stakeholders concerning submittal requirements and RFI responses.

### EDUCATION

Bachelor of Science in Civil Engineering, Florida International University

### REGISTRATIONS

Professional Engineer #85271, State of Florida

NASSCO, PACP, LACP, MACP

FDOT-MOT Advanced Certification

### Miscellaneous City-wide Stormwater System Improvements (Design and Permitting Services) City of Coral Gables, FL

**Project Manager and Engineer of Record** for the design and permitting of stormwater systems within the City of Coral Gables. The City owns, maintains, and operates a wastewater system comprised of thirty-five (35) pump stations, over 65 miles of gravity sewer, and 25 miles of force mains. Currently, when a required storm water improvement is identified via City staff or customer issues, the City performs a field investigation and customer interview to fully understand the issue at hand. If a new storm water system (French drains, drainage wells, pipe system, etc.) is required, Construction Documents (Plans and Specifications) are developed and permitting by the appropriate Regularity Agencies. 300 Engineering is providing engineer of record and permitting services for miscellaneous City-wide stormwater system improvements, including: exfiltration trenches, drainage wells, pipeline system and/or outfalls. Under this contract, 300 Engineering has delivered the required grading & drainage plans and construction documents for multiple stormwater projects, where our team has evaluated the existing condition of drainage infrastructure and designed the most cost-effective solution, tailored to each case's needs.

### Traffic Calming along Aragon Ave and Giralda Ave – Project/Construction Manager – City of Coral Gables, FL

Mr. Fernandez served as **the project manager** for the design of roadway improvements for two (2) residential roads within the City of Coral Gables. These roads, Aragon and Giralda Ave., run East/West from Segovia St. to S. Le Jeune Rd. The scope of the project included designing a Traffic Calming plan for this area, including but not limited to, installation of a raised intersection (speed table), installation of brick paver entrances from major roads indicating to drivers the area is residential, and the installation of a curbed island. In addition, 300 Engineering was tasked with improving the stormwater infrastructure conditions within this project area through the installation/relocation of stormwater structures, and regarding the roadway. Stormwater structures designed included French drains, catch basins connected to existing trenches with solid pipes, and stormwater manholes. Mr. Fernandez was also the Construction Engineer for the project, ensuring compliance with construction documents, performing field inspections and review contractor's schedule of values among many others.

### 24-inch Force Main NW 170th Street Sanitary Force Main Improvements | Miami-Dade County, FL

**Project Manager** for the installation of 2,500 LF of 24-Inch FM along NW 170 St from NW 82 Ave to NW 75 Pl. The scope of the project was based on the need for the Miami Dade Water and Sewer Department (WASD) to improve the wastewater collection and transmission system (WCTS) capabilities by installing a 24-inch force main in an area of unincorporated Miami-Dade County along NW 170th St. Mr. Fernandez was directly responsible for all coordination efforts between WASD, local municipalities, and permitting agencies. The route of this new 24-Inch force main crosses the FDOT highway I-75 and MD-RER's Peter Pikes Canal where special design conditions were made in order to satisfy both of these governing regulatory agencies. The trenchless construction method of microtunneling was chosen to cross the I-75 highway with sufficient depth and separations as required by FDOT. An open-cut design was chosen to cross the canal while providing sufficient depth, separations, and canal embankment stabilization as required by MD-RER. Services provided by Mr. Fernandez included, but were not limited to design, permitting, cost estimating, preparation of technical specifications, utility coordination, site inspections, scheduling, coordination with the WASD Sewer Operations, limited procurement and construction support services.



### **8-Inch Watermain along NE 68th St and NE 7th Ct | Miami-Dade County, FL**

*Project Manager* for the replacement of an undersized 4-inch Asbestos Cement (AC) water main which is required to upgrade the water system to increase water pressure and provide optimum fire flow protection. The existing 4-inch watermain was replaced with 1,340 LF of 8-Inch Ductile Iron (DI) water main from the intersection of NE 68th St and Biscayne Blvd to the intersection of NE 67th St and NE 7th Ct. The project also included the installation of new fire hydrants and water services for residential and commercial properties. Services provided by Mr. Fernandez included, but were not limited to design, permitting, cost estimating, preparation of technical specifications, utility coordination, site inspections, scheduling, coordination with the WASD Water Transmission Division, and limited procurement and construction support services. Mr. Fernandez was directly responsible for all coordination efforts between the WASD, local municipalities, and several permitting agencies. Permit agencies associated with this new 8-Inch Force Main included Miami Dade Regulatory & Economic Resources (MD-RER), City of Miami Public Works (CoMPW), WASD, City of Miami Fire Dept., Florida Dept. of Transportation (FDOT), and the Florida Department of Health (FDOH).

### **Countywide Cleaning and Televising of Large Diameter Sewers | Miami-Dade County, FL**

*Project Manager and Permitting Specialist* for the permitting and maintenance of traffic for Countywide cleaning and televising of large diameter sewer pipelines. The project consists of furnishing all materials, labor, and equipment necessary for cleaning and inspecting via closed circuit television (CCTV), large gravity sanitary sewer pipes (24-Inches in diameter and greater), sanitary sewer manholes and pump station wet wells. The work was accomplished through manhole openings, without disturbing any utilities, street surfaces, or adjacent properties. In order to begin any CCTV operations, Mr. Fernandez ensured that all associated construction permits were approved, along with the Maintenance of Traffic (MOT) for the respective area. This task was the responsibility of Mr. Fernandez from initial coordination, application submittal, RFI responses, and permit approval. The governing agency within this project scope was the City of Miami and their respective permitting departments (Public Works, Police Department, etc.). The permitting process within the City of Miami was transitioned into an online database where only electronic permits are now accepted. Mr. Fernandez handled diligent coordination with the City during their transition phase ensuring proper execution and approval.

### **12-Inch Force Main (FM) along SW 147th Ave from SW 296th St to SW 280th St | Miami-Dade County, FL**

*Project Manager* for the replacement of an undersized 10-inch Asbestos Cement (AC) Force Main with a new 12-Inch Ductile Iron (DI) Force Main. Mr. Fernandez was directly responsible for all coordination efforts between the WASD, local municipalities, and permitting agencies. Permit agencies associated with this new 12-Inch Force Main included Miami Dade Regulatory & Economic Resources (MD-RER), Miami Dade Dept. of Transportation and Public Works (MDDTPW), and WASD. Special attention was paid to the flow paths of the force main network in this area, as there is a larger booster pump station (PS 0692) which transmits a large volume of flows to the South Dade Wastewater Treatment Plant (SDWWTP).

### **60-Inch Transmission Force Main, Phase 4, Professional Architectural and Engineering Services Relating to the State of Florida's Ocean Outfall Legislation and Miami-Dade County's Wastewater System | Miami-Dade County, FL**

*Project Manager* for engineering design, permitting, procurement support and value engineering services for the proposed 60-Inch FM from the intersection of SW 134th Ave and SW 208th St to the intersection of SW 132nd Ave. This section corresponds to approximately 4,000 LF of the Phase 4 of the overall SL 2.2 force main project. Services provided by Mr. Fernandez included, but were not limited to design, permitting, cost estimating, preparation of technical specifications, utility coordination, site inspections, scheduling, coordination with WASD, limited procurement and construction support services.

### **City of Coral Gables Parking Lot 25 Improvements – Construction Manager – Coral, Gables, FL**

Mr. Fernandez is the **Construction Manager** of the new Parking Lot 25 for the City of Coral Gables. 300 Engineering was tasked with performing the analysis and comprehensive design of the Parking lot 25 Improvements project. This beautification redesign of a City-Owned parking lot adjacent to the newly renovated Giralda Ave Pedestrian road includes, but not limited to, demolition, geometry/site layout, paving and drainage, striping and markings, lighting/photometrics, electrical, and irrigation. Considering the magnitude of improvements, several stakeholders were contacted and coordinated with, such as City of Coral Gables Public Works, Parking, Landscaping and Special Events departments.

### **Public Safety Building Drainage Improvements – Construction Engineer – City of Coral Gables, FL**

*Project engineer* for design services for the new Public Safety Building for the City of Coral Gables. 300 Engineering was responsible for the design of the drainage system for a basin that collects stormwater from over a 4-acre area, which includes the Public Safety Building's footprint, adjacent alleys and streets, and a future parking lot. 300 Engineering performed and provided drainage calculations for this stormwater basin using a 10 year – 1-day storm event. The new drainage systems consist of over 400 LF of Exfiltration Trenches, eight (8) new drainage structures, and 650 LF of Drainage Conveyance Pipe up to 24 inches in diameter.



## Angela Bernace | Public Involvement Lead

Ms. Bernace has been involved in the transportation field for more than 19 years. She has provided public involvement/demographic support to transportation engineers and planners for several projects ranging from Planning Studies, Project Development and Environment (PD&E) studies through Design and Construction. Angela has led the development, design and preparation of direct-mail brochures, Project Fact Sheets, Newsletters, Public Meeting/Hearing PowerPoint presentations and other collaterals. In her public involvement role, Angela has researched and provided insight into the demographic makeup of communities allowing for the selection of differing communication strategies to reach the cross section of those present within the project area.

### EDUCATION

Business Administration,  
Webber International  
University, Babson Park,  
Florida, 2005

### NOTE

\* Denotes project completed  
under previous firm.

#### **I-95 Safety Improvement Project, from North of Gatlin Boulevard to South of St. Lucie West Boulevard, FDOT District 4**

**Public Involvement Support.** *The purpose of this project is to improve safety to the I-95 corridor from North of Gatlin Boulevard to south of St. Lucie West Boulevard in St. Lucie County. After an analysis of the crash history and existing conditions, the corridor will be resurfaced to correct cross slope and minimize the potential for hydroplaning. The project also includes extension of the northbound on-ramp at the Gatlin Boulevard interchange and southbound on-ramp at the St. Lucie West Boulevard interchange, addition of lighting and a new LED Curve Warning System. The public involvement activities included the preparation of a Community Awareness Plan, an invitational flyer, PowerPoint presentation and boards as well as other collaterals to support the hosting of a hybrid public meeting (virtual and in-person).*

#### **Project Development and Environment (PD&E) Study for I-95 from Stirling Road to Oakland Park Boulevard, FDOT District 4\***

**Public Involvement Support.** *The purpose of this study was to enhance operational capacity and relieve congestion by implementing two High Occupancy Toll (HOT) lanes in each direction. The project was part of the managed lanes vision for South Florida and included coordination with other on-going managed lanes studies up to Linton Boulevard. The Study included a comprehensive public involvement program with over 5000 stakeholders.*

#### **Project Development and Environment (PD&E) Study for the Widening of SR 80/Southern Boulevard from Seminole Pratt-Whitney Road to Forest Hill Boulevard, FDOT District 4\***

**Public Involvement Support.** *This project involved an eight-mile PD&E Study from CR 880 to Forest Hill Blvd. This corridor is one of two major east-west corridors within northern Palm Beach County and provides vital access to western Palm Beach County. The corridor was identified in the FDOT SIS plans for capacity improvements. The project involves widening the segments east of Lion Country Safari Road from four to six lanes and upgrading the entire corridor to meet the requirements of the Strategic Intermodal System (SIS) and access management standards.*

#### **Districtwide PD&E Consultant for FDOT District 4 Contracts No. 1 & 2 – Public Involvement Guidelines\***

**Public Involvement Support** *for the development of the District Four Public Involvement Guidelines. The guidelines included sample documents such as: invitations, event checklist, save-the-date flyer, agenda, participant survey, newspaper ads, and others.*

#### **Districtwide PD&E Consultant for FDOT District 4 Contracts No. 1 – Context Sensitive Solutions\***

**Public Involvement Support** *for the development of a table display board to provide the general public with information about Context Sensitive Solutions (CSS) and training materials to support the D4 CSS training. Collaterals included two CSS brochures covering Resurfacing Restoration and Rehabilitation (3R) and PD&E projects as well as three table display setups for 1) PD&E. 2) 3R and 3) in-house training. CSS topics included transportation design for livable communities, pedestrian, bicycle, greenways information, landscaping, aesthetics, environmental preservation, travel speeds and relationship to safety, mid-block crossings, trees and clear zones, and lane width to name a few.*

#### **Widening of the Sawgrass Expressway (SR 869) from South of Sunrise Boulevard to South of US 441 (SR 7) Florida's Turnpike Enterprise\***

**Public Involvement Support.** *This project consisted of an 18-mile PD&E Study along the Sawgrass Expressway. The project was needed to enhance capacity along the Sawgrass Expressway through widening and the incorporation of an express lanes system. This study was conducted to identify and evaluate potential environmental impacts that may result from the widening of this section of the Sawgrass Expressway.*

**Project Development and Environment (PD&E) Study for the Widening of the Homestead Extension of the Florida Turnpike (HEFT) from SR 836 to East of NW 57 Avenue, Florida's Turnpike Enterprise \***

*Public Involvement Support.* PD&E Study for this 19-mile section of the HEFT from SR 836 to east of NW 57 Avenue. This segment of the HEFT encompasses the system-to-system Interchanges of SR 836 and I-75, as well as six service Interchanges. The study includes the conversion to an all-electronic toll collection system. Public Involvement activities included the preparation of project flyer, boards, presentation and other collaterals to support the public meeting and the public hearing.

**Project Development and Environment (PD&E) Study for the Widening of the HEFT from SR 874 to SR 836 Florida's Turnpike Enterprise\***

*Public Involvement Support.* PD&E Study for this 9.5-mile section of the HEFT from SR 874 (Don Shula Expressway) to north of SR 836 (Dolphin Expressway). This existing limited access facility consists of six general purpose lanes (within these project limits) and is being studied for possible conversion to ten general purpose lanes.

# SECTION III

*Project Understanding, Proposed Approach, & Methodology*



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## SECTION III: PROJECT UNDERSTANDING, PROPOSED APPROACH, AND METHODOLOGY

### 3.1 Approach and Methodology – Understanding the Scope of Services and RFQ Requirements

#### UNDERSTANDING AND APPROACH TO THE SCOPE OF SERVICES

The City of Coral Gables is seeking to select six (6) professional engineering firms to provide Transportation Planning and Engineering Consulting Services. Our Team understands that this will be a Task Work Order contract and services will be requested on as-needed basis. Our Project Manager, Silvia Beltre, recognizes that ARDURRA's Team will need to acknowledge receipt of request for services within two business days from the date the request is issued. After acknowledgment of receipt, our Team will need to submit a draft proposal that will include scope of services, schedule and budget for the work being requested. After the City has approved the proposal, a Purchase Order will be issued to commence the services.

ARDURRA is committed to establish and maintain appropriate staffing throughout the duration of the contract. In the case of Construction Engineering and Inspection, ARDURRA staff will be required while the Contractor is working. If the Contractor operations are substantially reduced or suspended, ARDURRA will reduce its staff appropriately. In the event that the suspension of Contractor operations requires the removal of consultant forces from the project, the Consultant will be allowed up to ten (10) calendar days to demobilize, relocate, or terminate such forces.

Overall, ARDURRA will serve as a Consultant to the City and will assist the City to meet community short-term and long-term goals, pursuant to the RFQ. ARDURRA can responsively and responsibly support the City's needs on any task assignments which requires timeliness, cost control and quality. Service requests will be made by the City on an as-needed basis and may include a number of services as highlighted below. Our Understanding of the Scope of Services and Approach to each discipline is presented below. Following this, we have included a table highlighting our Understanding of the RFQ minimum requirements for professionals required per discipline.

#### **General Approach to Task Work Order Set up and Management**

Our Project Manager, Ms. Silvia Beltre, PE, is experienced in identifying solutions to complex or unique issues and the ability to leverage our team's talents to quickly respond to requests. Her tailored management tools allow her to seamlessly facilitate multiple concurrent task work orders, and coordinate with team partners. She has a proven track record of quality program and project level support. Our approach to any Task Work Order will begin with identifying the right team and lead for the task required. Depending on the task required, a group of professionals representing the various disciplines will be assigned as needed to meet the objectives of the analysis. Silvia will leverage the discipline leads to develop a Scope of Services for each assignment. At the beginning of each TWO, we will meet internally to outline objectives and define roles. A detailed schedule will be prepared and submitted to the City for their review and concurrence. The schedule will outline critical path elements, QC, deliverables, and will allow adequate time for review by the City. We are committed, prepared, available, and excited to partner with the City of Coral Gables for a successful delivery of this project. Our Team requires no learning curve or transition.



#### **TRAFFIC ENGINEERING AND TRANSPORTATION PLANNING**

The ARDURRA Team is intimately familiar with the City's goals and objectives for a safe, accessible and efficient transportation network. We are already providing similar services under the umbrella of 300 Engineering Group, our newly acquired firm. Most recently we evaluated the feasibility of installing traffic calming strategies along Giralda Avenue and Aragon Avenue. This complements the experience of our team members in traffic engineering, transportation planning, Project Development and Environment studies and corridor planning.

ARDURRA's traffic expertise covers a wide range of engineering studies. Starting from the single intersection traffic analysis (using HCS/Synchro) to analysis of complex freeway interchanges or multi-modal interactions (passenger vehicles and transit vehicles) using micro-simulation models such as CORSIM and VISSIM. Our staff also brings experience from Districtwide contracts as well as major projects on which they have participated such as Fort Lauderdale Downtown Transit Circulator Study Environmental Assessment Report and SR 836/Dolphin Expressway Extension (from SW 107th Avenue to SW 137th Avenue). Both of these projects required the development of large micro-simulation analysis with VISSIM and CORSIM, respectively. We have developed traffic data collection plans, signal warrant analysis, signal timing analysis, trip generation, travel demand forecasting (with model and without model), transit and transportation planning.

Our Team brings experience from major Project Development and Environment (PD&E) Study that could be tailored to the specific needs of the City. Projects such as the SR 836/Dolphin Expressway Southwest Extension Project Development and Environment (PD&E) Study are examples of major planning projects where engineers, environmental scientists and public involvement professionals have gathered to develop unique ideas for coordination and design innovation.

Our Team understands that pedestrian and bicycle safety is paramount. We are currently working on the Orange County Vision Zero Action Plan and SR 551/Golden Road Pedestrian Crossing Study (Orange County), among others. We have also assisted clients with Grants Applications. Some of the Grants have included Strengthening Mobility and Revolutionizing Transportation (SMART) and High-Risk Rural Roads (HRRR) Grants.

Through previous continuing engineering services, our team of experts have supported municipalities like the Miami-Dade County and the City of Miami updating their Comprehensive Developments Master Plans [the Miami-Dade County Comprehensive Development Master Plan (CDMP) and the Miami's Comprehensive Neighborhood Plan (MCNP), respectively]. Also, we have reviewed Traffic Impact Studies (TIS) on behalf of the City of Miami.

ARDURRA also has a record of accomplishment of successful development and delivering innovative transit systems incorporating multiple modes of transportation including rail, busses, automobiles, bikes, pedestrians to create sustainable communities of citizens, businesses, parks, employment centers, places of worship, and health care. For Houston METRO, ARDURRA was the Lead Engineer for the Post Oak BRT and Multiple Transit Centers that included planning, design, construction, and operations of the first Bus Rapid Transit (BRT) Corridor in Dedicated Lanes in Texas. ARDURRA created the BRT standards and design requirements for METRO use in designing future BRT projects. ARDURRA also designed all the systems connecting both transit centers, the 16 stations platforms and fiber terminated at TranStar. System components include CCTV, TVMs, VMS, card readers, public address systems and much more. ARDURRA conducted traffic impact analyses (TIA), travel time studies, signal warrant analysis, evaluation of operations under opening and design years, evaluation of mobility of the transit vehicles. Coordinated with FHWA, FTA, HGAC, METRO, TxDOT, and City of Houston.

In Phoenix, AZ, ARDURRA is leading the evaluation and implementation of Transit Oriented Development into Valley Metro's light rail transit (LRT) Extension Lines following on a long history of designing multiple segments of the Valley Metro LRT line including the initial Light Rail Line Segment One and the recently awarded Valley Metro Capital Extension LRT. These experiences have provided ARDURRA with the expertise of developing new transit systems into existing and established infrastructure in urban areas with a sensitivity towards the full picture of community, business, utilities, multiple agencies.



Ms. Beltre understands that projects may range from a simple traffic analysis for a single intersection to complex studies involving multimodal corridors. Silvia will rely on Ms. Ytve Guerrero, PE, as the Task Lead for Traffic Engineering/Transportation Planning. Ms. Guerrero brings extensive experience in this area of the scope. She also has expertise dealing with impacts on traffic flow from other modes of Transportation such as boats which has included in the past analyzing how opening bascule bridges impacts traffic flow. Our national subject matter expert William "Bill" Knapp can lead and/or provide Ytve with support for transit/multimodal task work order assignments.

Data Collection will include the information needed to support task work orders including traffic counts, roadway geometric conditions, signal timings, download of crash data, among others). Depending on the area being analyzed and the type of traffic analysis requested, there may be a need to use traffic analysis software such as HCS, Synchro, CORSIM, VISSIM, among others.

We have expertise in a number of traffic strategies to improve traffic operations such as roundabouts, traffic circles, speed tables and others. In recent years, the City of Coral Gables has installed several roundabouts and traffic circles as strategies to improve traffic

operations at intersections. These traffic strategies serve to maintain steady traffic flow through an intersection while increasing driver's engagement to the road and thus increasing safety conditions for pedestrians/bicycles users.

## **DESIGN SERVICES**



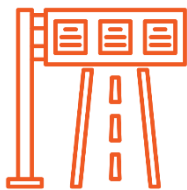
### **Roadway and Drainage Design**

ARDURRA has included all services necessary to prepare a complete set of construction plans for any transportation improvement desired. We have more than **46** years of experience providing efficient designs for roadway and multi-modal systems to DOTs and local agencies. Our Team has developed drainage calculations and design, traffic control, signing and pavement markings, channelization, maintenance of traffic, street lighting, permits applications and processing, Opinion of Probable Cost, as well as technical specifications, bid documents and tabulations. Our award-winning bridge teams can handle anything from signature bridges to basic crossings, ensuring the best fit for the client. With experienced roadway, bridge, and drainage designers who have worked on nationwide projects, and local agency projects, we have the expertise to deliver thoughtful and cost-effective results. Members of our team have saved our design-build clients millions of dollars on construction cost and time savings through our design and MOT phasing innovations.

Overall, our team members bring recent and relevant experience executing projects for the FDOT and GMX and are ready to leverage that expertise to provide value to the City. Designs that involve reconstruction and/or milling and resurfacings will include the evaluation of typical sections, pavement design, plans, profiles, cross sections, Temporary Traffic Control Plans (TTCP), Lane Closure Analysis, Americans with Disabilities Act (ADA), 3D Modeling and Stormwater Pollution Prevention Plans (SWPPP). ARDURRA staff members are MOT Certified (Advanced) with the FDOT, which will serve to properly plan and phase construction projects to avoid traffic impacts. Both, FDOT and GMX are current clients to ARDURRA for which we provide Traffic Engineering Services as well.

Under our SR 836 Ramp project, we have designed new ramp connections between SR 836 and the Homestead Extension of Florida's Turnpike (HEFT) including new southbound to westbound, eastbound to northbound movement, and new eastbound to Dolphin Station Road direct connection. Key challenges for this project have been coordination with adjacent projects under the jurisdiction of the Florida's Turnpike Enterprise and railroad coordination with CSX for construction over railroad infrastructure. Our team has also been responsible for the stormwater permitting efforts and new overhead signs. Our Team has also been a key player on the I-395/SR 836/I-95 Interchange Reconstruction Design-Build Project, we have provided Maintenance of Traffic (MOT) Services throughout the three corridors on this project.

For drainage design, our Team has been responsible for stormwater drainage analysis and design of dry detention systems for treatment purposes, which minimizes wetland impact and avoid additional right of way acquisition. We have generated report calculations for water quality analysis, pond design, and analysis of each system which included preparation of plans and all drainage related permit applications. Some of the challenges that our team has faced is FDEP issuing permitting under new criteria guidelines and coordination with local agencies to ensure mutual benefit for design implementation. Other major issues included maintaining existing drainage flow patterns and constructability.



### **Signing, Pavement Marking, and Channelization**

Designs that include the preparation of signing and pavement marking construction plans will include the evaluation of existing signs within the project limits.

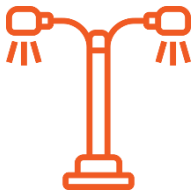
A detailed field review will be conducted to determine the condition, location and type of signing and pavement marking prevalent along the corridor. Once the design of the roadway has begun, our roadway and signing and pavement marking teams will collaborate to determine if new signs and pavement markings are needed to support the concept under development combined with replacing and/or relocating and signs, overhead sign structures and pavement markings that may be deteriorated or conflict with the proposed design.



The signing and pavement marking construction plans will identify the location, type, size and placement of all signs required along with the appropriate messaging and symbols to effectively communicate regulatory, warning and informational messages to drivers. Advance warning signs, guide signs, regulatory signs and informational signs



will be considered where warranted to provide clear information to drivers. Pavement markings will be coordinated with design elements such as traffic signals, intersection geometry, pedestrian facilities, and bicycle lanes. During construction, the ARDURRA Team can support the City to ensure that the signing and markings were installed correctly.



### **Lighting**

Lighting plays a major role in ensuring safety of a transportation facility. A safety analysis can be performed to document any potential concerns associated with lighting. Lighting design begins with an assessment of the existing conditions and the desired lighting based on the proposed assignment. Areas to be lit will be identified which may include the roadway, an adjacent path, parking areas, transit stops or bicycle lanes. A photometric analysis will be conducted to ensure the proper light levels depending on location and intent are met. Factors such as uniformity, glade, color, lighting levels, cut off angles, and energy efficiency will be considered. Light fixtures will be selected suitable to meet the photometric needs but also the aesthetic guidelines of the City.

Our team has designed, prepared construction plans, and writing specifications for roadway lighting improvements as part of District 5 – Continuing Service Contract for ITS and Lighting Support. As part of the SR 501 (Clearlake Road) from SR 520 to SR 524, ARDURRA has performed photometric analysis using the AGI software for corridor, signalized intersection and mid-block crossing lighting. The project required lighting design using FDOT Design Manual (FDM) criteria and coordination with FPL for corridor lighting attached to existing or proposed FPL poles to be procured under a RISA agreement. Lighting design also required preparation of Lighting Report for documentation of the proposed project lighting. Post design services included review of proposed lighting shop drawings and responses to RFI's and RFMs.



### **Signalization**

Signalization is critical for managing traffic flow, improving safety, and optimizing intersections. For each task, we will confirm the City's desires for signalization – a means to reduce congestion, enhance pedestrian safety or overall operational improvements. As with all assignments, the first step is to understand the existing conditions and constraints such as volumes, vehicle and pedestrian movements, intersection geometries, sight distances, road user behavior, and crash history. Our Team also considers future growth projections, land use changes, and other factors that may impact traffic patterns. A traffic study is conducted to determine the most appropriate type of traffic control for each intersection under evaluation, and a traffic signal warrant analysis will be required to justify traffic signal installation. Factors such as traffic volumes, vehicle speeds, pedestrian activity, geometric design, and proximity to other intersections or facilities are incorporated into the analysis. Our Team will then evaluate the feasibility and effectiveness of various signalization options, including traffic signals, roundabouts, stop signs, and yield signs.

The signalization plans will include designs for traffic signals, including signal heads, poles, mast arms, signal cabinets, and detection systems. The appropriate signal phasing, timing, and coordination strategies will be analyzed to optimize traffic flow and minimize delays. The needs of all road users must be considered, including motorists, pedestrians, cyclists, and transit users, when designing signal operations. Where warranted, provisions for emergency vehicle preemption can be incorporated into signalization plans to prioritize the movement of emergency vehicles through intersections.



### **Landscape Design/Landscape Architecture**

Our Team counts with Registered Landscape Architects and Florida Friendly Landscape Certified Professionals. Some of our professionals also hold Best Management Practices – Green Industries certificate. Our team has participated in numerous projects including roadway beautification projects for Lee County Department of Transportation. Traffic calming projects (such as the one for the City of Cape Coral Public Works – Del Prado Linear Park), public park landscape design (including design of all planting, irrigation, hardscape, and lighting for the entire project). We have worked in areas in the vicinity of sensitive facilities such as airports which require special landscaping that ensures not interference with flightpaths (Gulf Coast Landings Fort Myers).

Our Team has been tasked to manage the evaluation and assessment of damage to the landscape due to landfall of Hurricanes. Efforts included field data collection, community input, research of historical plans, and presentation of findings to each Homeowner's Association within the community. Construction Administration was also included in this project.



As seen from the projects ARDURRA has participated, our landscape professionals have experience in urban design, streetscapes, commercial developments, residential developments, and parks. Our Team has prepared landscape plans (conceptual through final drawings and specifications) including tree selection, tree identification and biology, growth characteristics and requirements (water, soil, nutrition), installation and establishment, tree mitigation, as well as pruning and maintenance.

Our approach to incorporating landscape architecture into transportation projects focuses on enhancing the functionality, aesthetics, and sustainability of the built environment while addressing the specific needs of the transportation infrastructure. Our Team will begin by conducting a site analysis and assessment to confirm soil conditions, existing constraints and opportunity areas for landscaping enhancements. Depending on the task at hand and as requested by the City, this effort can include a public outreach component to solicit stakeholder feedback and assess preferences for design elements. Our Team will work seamlessly with both our public involvement, environmental and stormwater teams to ensure sustainability and enhance resiliency. We will also ensure that designs consider the long-term maintenance that will be required for selected landscaping designs.

### ***Structural Design and Miscellaneous Structures***



Our structures group has extensive experience in the design of a wide range of transportation structures for FDOT as well as local communities. ARDURRA has been the engineer of record for numerous bridges, including major bridge structures, widenings and rehabilitations. We have experience in miscellaneous drainage structures such as concrete box culverts and pump stations. For soil retention structures, ARDURRA has been EOR for both permanent and temporary walls, such as MSE, cast-in-place concrete cantilever, sheet-pile, and soldier pile walls. Our design experience also includes Noise Walls as well as signal, ITS and overhead structures.

We have a strong history of collaboration with contractors and FDOT to develop cost saving initiatives that bring value to the projects. Our extensive experience in design build projects have provided our team valuable knowledge of construction's means and methods, enabling us to estimate realistic production rates and generate reliable construction schedules and/or construction project durations. We've developed a process for selecting structure types which accounts for construction duration and cost while also evaluating long term maintenance. Examples of projects with design of bridges and retaining walls are: The I-95 Express Lanes Design-Build Phase 3C from Stirling Rd to Broward Boulevard and Brant Drive Bridge replacement from Oregon Lane to Avocet Road, Palm Beach County, FL.

Our Structures group is equipped and ready to develop solutions that meet the complexities of the assigned tasks. We work with our clients to ensure we understand and meet all criteria and expectations. An example of this is the ongoing SR 836/I-95/I-395 design build project where we have worked with the FDOT to find solutions like the use of cellular concrete in MSE walls to mitigate overloading adjacent structure's foundations. No matter the complexity or type of structure, our professionals handle them with the upmost level of commitment and innovation.

The ARDURRA Structures team is very familiar with the requirements of a Task Work Order (TWO) driven contract as we are currently the prime consultant on a Districtwide (TWO Driven) Contract with FDOT D6 to load rate existing bridges in Monroe and Miami-Dade Counties. Our structures group has redundancy in the staff to be able to handle multiple assignments at the same time.

### **CONTRACT ADMINISTRATION**

Our Team has extensive experience in dealing with schedule and cost control strategies at different phases of construction (pre, during, post). Traditionally, our team has delivered projects with no overruns and on time. Our experts are knowledgeable in preparing schedules for contractors utilizing various software packages such as Primavera P6, Primavera Contractor, and Microsoft Project. We are also well-versed in:



- Understanding the elements for a successful timeline.
- Identifying appropriate alternatives to accurately comment on the contractor's processes
- Identifying possible schedule inconsistencies during schedule preparation

We ensure that the Project Specifications are not only complete, but also realistic. These include monetary values, milestones and phasing, long-lead delivery items, review times, close-out inspections, testing, and proper allocation of production rates. Based on our experience we know that by monitoring construction's progress monthly, we can identify improper logic changes, removal of necessary ties, or other indicators of work slippages. Thus, we can recommend strategies for gaining contractor's time. Yet, if the circumstances warrant it, we will require a recovery schedule to meet the contractual requirements. In addition to "Claim Digger" of the Primavera P6

software, we also use “ScheduleReader” to identify comparisons between the updates and the project baseline since it allows for efficient tracing of the logic within the network and serves as a review of the tasks, resources, and predecessor/successor relationships.

Having experience in cost control prior construction starts, is beneficial. No one guards expenditures as much as contractors. We will monitor the project budget through review of the pay items to identify potential overrun/underrun conditions, track extra work due to unforeseen conditions and work orders or SA's. For any requests for additional work, Ricardo Escobar, PE, CGC, our Senior Project Engineer, will provide the City with an analysis and cost/benefit recommendations, including schedule impacts. Being prepared for the oversight of the contractor's operations allows to limit the unforeseen field conditions that can easily escalate costs. If additional costs are unavoidable, our inspectors will track all extra work and our management team will move to promptly negotiate with the contractor to limit delay liabilities. Also, during the schedule review, we will monitor the cost loading features to develop S-curves and track the progress of the cost accumulations against the baseline.

In the case of project documentation, Our Team has successfully tracked and filed shop drawings, Request for Information (RFI), Request for Modification (RFM), Notice of Intent (NOI), permitting, lane closure requests, invoicing, changes, revisions and all other documents needed for a successful project delivery. Our staff has been thoroughly involved, through several municipal and FDOT construction projects, in processing contract deliverables and securing expedited approvals while keeping the construction progress on schedule. Our staff will manage the monthly and Final Estimates process, following the City requirements, to allow submittal of the Final Estimate (FE) Package within 10 days of project acceptance. At monthly estimates, separate records will be maintained by the inspection team and the Construction Safety Specialist (CSS) for daily reviews of quantities and address any oversight at once. Our group will track, negotiate, and resolve pending Work Orders and Supplemental Agreement (SA) so that there is no delay in the processing of funds to the contractor.

### **CONSTRUCTION ENGINEERING INSPECTION (CEI)**

The objective of our CEI team is to identify of all the key activities of the proposed construction efforts, so every stakeholder is engaged, and work is performed effectively, efficiently and timely. Key activities will vary according to the phase of the project (pre-construction, during construction (after Notice To Proceed - NTP) and post-construction).

At preconstruction, Our Team will focus on reviewing plans, specifications, utility work schedules, permits, and other pertinent documentation about the project that will allow us to create a full picture of the work to be performed. This will lead to a more efficient tracking of the tasks on hand. Evaluation of Existing Conditions will be verified using photos/videos, permit status, and the commencing of the stakeholder meetings. At this stage key activities include tracking the utility relocation process, verifying plan/quantifying verifications, completing constructability reviews, and advising Decision and Risk Management Professional (DRMP) for the City of Coral Gables of any inconsistencies. At this stage ledgers and other tracking tools will be prepared to timely log all project records such as Requests for Information (RFI), shop drawings, plan revisions, Work Orders, Change Orders, as-built plans, etc.



After NTP, the key activity will be to routinely hold coordination meetings with the City and the design consultant to coordinate on critical items that have been discovered and look for potential solutions before the contractor is mobilized. We will also begin the coordination process with the different Utility Agency Owners (UAO) and review the progress of each Utility Work Schedules (UWS).

During construction, our priority will be safety. A properly prepared construction site is unlikely to be affected by unforeseen safety situations. Before construction NTP, our staff would have completed their OSHA 10 Construction training as well as the separate Trenching and Excavation Safety training. This last training is specifically critical in roadway operations that include drainage works and water and sewer work. Also, our inspectors will attend the contractor's toolbox safety meetings to ensure that the discussions of the pre-activity meetings are properly distributed and discussed with each worker included in the operation.

We pride on partnering and effectively communicating with the stakeholders and the City. The ARDURRA Team speaks the contractor's language, and we understand how certain situations may impact their activities (schedule, budget, or crew assignments). Our team members have run projects from the contractor's side. We are keenly aware of the planning stages that allow for a construction project progress safely and successfully. We will engage with the contractor during the planning stages so that we can coordinate and monitor their progress, and assess the steps needed to make a positive project completion.

We will bring over that motivation for which our firm is known for in the industry and be persistent in our approach for safety, excellence, and quality in the construction operations. Our group will lead productive communications to understand the contractor's plan to execute the work in consideration of their crews, materials, supplies, etc.

We will document the resources being deployed to the project site where they can be cataloged and verified. Our team will hold pre-activity meetings prior to the beginning of major operations and will request that the appropriate subcontractors are participants of these meetings, to ensure they are "in-sync" with the project requirements and what the prime contractor expects. Frequently, the prime contractor expectations are not properly communicated to the subconsultants, and this leads to unnecessary field discussions. We will ensure that all participants in an operation are aware of the plan of action and safety considerations.

Our team strives in ensuring the progress of the contractor is well communicated with the City and other stakeholders that may have other activities neighboring our project's limits. Besides constant interaction with the City Project Manager, our Sr. Project Engineer will provide weekly emails indicating the progress and proposed resolution of the most pending matters. In addition, our monthly progress reports will address any time, cost, design, or utility issues, accompanied by the action plan for conflict resolution. The monthly reports will address any community outreach concerns, as well as any inter-agency or political matters requiring immediate response and will include ledgers of all project documentation with the progress made on any contractor Notice of Intent to Claim. The Sr. Project Engineer will also lead all weekly Construction Progress Meetings with the contractor and serve in the Community Outreach program assisting the City's efforts. We will commit to resolve public complaints within 24 hours of notification. The Sr. Project Engineer will coordinate with the adjacent projects to avoid overlap conflicts, such as construction operations and lane closure requests.

The ARDURRA Team will supervise the day-to-day operations from the contractor and be responsible for the CEI inspectors. We will conduct daily staff meetings to ensure complete coverage of the contractor's operations and maintain the project documentation. Our Team will take special precautions to review the contractor's lane closure requests and distribute them to the City and other stakeholders. We will personally walk all pedestrian detours to ensure ADA compliance is fully met prior to implementation. The Sr. Project Engineer will also coordinate with the City to ensure prompt resolution of failing material samples.

The ARDURRA Team will maintain all project documentation for each project. We will supervise material certifications and will lead the process into the project closeout. Supervision and QC of daily reports will be done daily to limit the unsettled items at project acceptance. We will also coordinate with the City for delivery of the warranties, in addition to completing the punch list items identified during the Quality Assurance final walk throughs.

## **MATERIAL INSPECTION**

Our Team has partnered with Universal Engineering Sciences, Inc. to provide Material Inspection. UES maintains full-service laboratory testing capabilities from each of its offices and performs testing services for construction materials such as soils and aggregate materials; asphalt and bituminous materials; corrosion testing of soil and water; concrete and cement, and masonry units. Well-trained, certified, and experienced field and laboratory technicians perform materials testing following local, state, and national test methods. The in-house Corporate Quality Systems Group maintains equipment calibration and checks accuracy. UES' laboratories are qualified and accredited through outside agencies such as: Cement/Concrete Reference Laboratory Accreditation (CCRL), Construction Materials Engineering Council (CMEC), Florida Department of Transportation (FDOT), US Army Corps of Engineers (USACE).

### **Construction Materials Testing**

UES has nearly 60 years of experience providing Construction Materials Testing services for numerous municipal departments that manage transportation, construction, and infrastructure improvement projects. A willingness to serve its clients with on-demand, part-time, and full-time staffing demonstrates our approach in meeting the specific needs of our clients.



### **In-House Laboratories**

UES maintains full-service laboratory testing capabilities from each of its offices and performs testing services for construction materials such as soils and aggregate materials; asphalt and bituminous materials; corrosion testing of soil and water; concrete and cement, and

masonry units. Well-trained, certified, and experienced field and laboratory technicians perform materials testing following local, state, and national test methods, including:

- American Association of State Highway and Transportation Officials (AASHTO)
- American Concrete Institute (ACI)
- American Society for Testing and Materials (ASTM)
- American National Standards Institute (ANSI)
- Florida Department of Transportation (FDOT)
- Portland Cement Association (PCA)
- Underwriters Laboratories, Inc. (UL)

Our in-house Corporate Quality Systems Group maintains equipment calibration and checks accuracy. UES' laboratories are qualified and accredited through outside agencies such as:

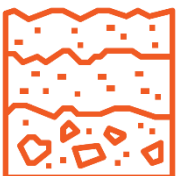
- Cement/Concrete Reference Laboratory Accreditation (CCRL)
- Construction Materials Engineering Council (CMEC)
- Florida Department of Transportation (FDOT)
- US Army Corps of Engineers (USACE)



### **CONTROL SURVEYING / DESIGN, RIGHT OF WAY, CONSTRUCTION SURVEYING**

MGV boasts extensive experience in completing a wide array of services encompassing but not confined to: Right of Way, Construction and Maintenance Surveying, Planning, Design, As-built/Record Surveys, Boundary Surveys, Construction Layout Surveys, Tidal or non-tidal Water Boundary Surveys, Wetland Surveys, Quantity Surveys, Topographic Surveys/3D-High-Definition Laser Scanning (Mobile & Static Lidar), ROW Control Surveys, Asset Management Surveys, and Alignment. One pivotal task among these is the control survey, crucial for facilitating the preparations of all Right of Way (ROW) services, including maps, parcel sketches, and legal descriptions. The primary objective of the control survey is to exhibit the existing supporting monumentation alongside the established historical baseline of survey, ROW lines, side street baselines, plat lines, section lines, etc. Another crucial task is the Right of Way Survey, aimed at showcasing the existing supporting monumentation along with the established historical baseline of survey Right of Way lines, side street baselines, plat lines, section lines, etc. The entire survey schedule hinges upon completing the Right of Way Survey and generating the Right of Way Maps. This foundational aspect serves as the lifeline ensuring the survey project progresses seamlessly through construction. At the beginning of each assignment, our Project Manager will meet with the City's Project Manager and the MGV lead to determine what type of information is needed for a successful project and how we can best provide this information in a practical, manageable form that can readily be utilized by the planning and design teams. MGV is a proven partner of ARDURRA, currently providing survey and right of way support services on existing contracts. MGV provides a wide spectrum of survey, right of way, utility locating and 3D Rendering services as shown below

- Horizontal/Vertical Control Establishment/Survey
- GPS (Global Positioning System) Survey
- RTK (Real Time Kinematic) Survey
- Topographic Survey
- As-Built Surveys
- Tree Survey
- Jurisdictional Survey
- Drainage Survey
- Sectional Line Survey
- Construction Survey
- ROW Survey
- Subsurface Utility Engineering Designating/Locating
- ASCE 38-02: Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data
- GPR (Ground Penetrating Radar)
- Electromagnetic Detection
- Vacuum Excavation
- DTM (Digital Terrain Modeling)
- Digital Scanning Survey (Bridge/Roadway/Etc.)
- Aerial Photogrammetry Control (Horizontal/Vertical)
- Platting



### **SOIL EXPLORATION**

UES will provide Soil Exploration services. UES approaches every project with the same measure of attentiveness, dedication, and consideration as the one before it. For its engineers, geologists, specialists, and technicians, this uncompromising approach to projects has become second nature. UES understand the importance of performing



beyond the industry standard and therefore, diligently apply their years of extensive geotechnical and materials testing experience to every aspect of a project.

## **Geotechnical Engineering Services**

Geotechnical investigations serve to investigate a property's soil and geologic conditions and provide recommendations and design criteria for construction. These investigations include reviewing available literature, conducting onsite explorations, mapping/ logging and sampling, and laboratory testing of field samples. UES will interact with the client's project staff to ensure all field and laboratory testing benefits the project.



Geotechnical services typically involve five critical steps. First, their geotechnical engineer(s) must collaborate with the project team to define project objectives before fieldwork occurs. The team will determine appropriate test methods and sampling techniques, test locations, and sampling depths from this collaboration. Should the field sampling plan need adjustment, the field engineer will make appropriate arrangements with the field crews. Adjustments will occur after discussion with the project team. This portion of step one is vital because it provides upfront, clear communication for our staff and the project team (which remains throughout our involvement with the project). The second step, exploration, begins with investigative fieldwork. Investigations can include drilling, recovering soil and rock samples and measuring groundwater conditions and soil parameters for stormwater design. Standard drilling methods may include, but are not limited to:

- Standard Penetration Testing (SPT) borings
- Rock coring
- Hand/power auger borings

Typical methods to measure soil parameters for stormwater design can include, but are not limited to, in-situ permeability testing, in-situ exfiltration testing, and double-ring infiltration testing. Our drillers and engineering staff are well-versed in these drilling and testing techniques. UES will collect the soil samples from fieldwork, paying particular attention to recovered materials, penetrating resistance, and any other pertinent information from the investigation (such as groundwater depth, in-situ test results, etc.). Then, UES will move to the laboratory testing stage. UES' soil laboratory visually examines all soil samples obtained onsite to define the soil's geomorphic conditions and properties accurately. If necessary to meet project objectives, we will conduct lab tests on the samples obtained to further understand the soil properties. A geotechnical report is the fourth step in the process, providing a detailed analysis of subsurface conditions within the limits of the study area. The report includes the test procedures used with data collected and a site plan showing test locations. The report will also include soil boring logs and our engineering evaluation and recommendations from a geotechnical perspective. These suggestions relate to project- specific geotechnical concerns, foundation support of structures, suitability of onsite soil reuse, construction process site preparation, and installation methods. The written report also documents proposed alternatives with supporting data and confirms the management-accepted implementation plan. Last (but equally important), geotechnical services include monitoring and consulting during site preparation and construction. Geotechnical and materials engineers and engineering geologists understand how the soil beneath a structure must perform. They have the training, equipment, and knowledge of soil and material characteristics to make engineering judgments about potential soil and materials concerns.

## **Field Services**

### **Soils**

By conducting on-site tests and monitoring, UES can analyze the suitability of soils for structural fill, determine the need for moisture adjustment, and provide an overview of earthwork activities.

### **Concrete**

UES' services include sampling concrete for air content, slump, temperature, and unit weight; making cylinders for compressive strength tests; and observing concrete placement.

## **Asphalt**

UES can provide field quality control to determine and monitor temperature, lift thickness, and compaction using core samples. Its team can also verify aggregate gradation, asphalt content, and bulk-specific gravity. UES' more advanced inspection services include:

- Aggregate mine and terminal evaluation
- Asphalt and concrete coring and evaluation
- Reviews of floor flatness/levelness
- Vapor emission and relative humidity of concrete
- Welding testing and inspection

## ***Threshold Inspection***

To ensure structural component conformance of larger structures, the state of Florida Building Construction Standards enacted Chapter 553 which defines a threshold building as: "Any building greater than three stories or 50-feet in height, or which has an assembly occupancy classification that exceeds 5,000 square feet in area and an occupant capacity of greater than 500 persons." This standard also specifies that a building of this size must have threshold inspector services. On a typical threshold project, an agent of the licensed Special Threshold Inspector conducts most of the inspections. This agent is specially trained and qualified to perform structural element inspections. They perform their duties under the supervision and authority of the Special Inspector.

## **Project Development and Environment (PD&E)/Corridor Planning**

***The ARDURRA Team's experience with corridor planning, feasibility studies, preliminary engineering, and PD&E studies provides for a complete understanding of the project development process and task required under this contract.*** Our Team emphasizes coordination and appropriate scheduling to ensure the most cost-effective solutions are advanced. Our staff has managed projects from the early corridor planning stages through to the PD&E phase and beyond. Our goal is to be responsive to issues that arise to complete the study in a timely and efficient manner, to meet the project schedule. Corridor planning can include elements involving public involvement, engineering, environmental analysis, and miscellaneous services. Work efforts may include the evaluation of the existing roadway network followed by the development of conceptual alternatives responsive to the transportation needs. The conceptual design and typical section alternatives are developed to minimize impacts to adjacent properties, natural resources, historical resources, and existing utilities.

The corridor study is critical to the successful advancement of the project because it will help streamline the analysis that will be required during subsequent project delivery phases. Defining a purpose and need and environmental constraints early focuses analysis on viable alternatives. The team's approach is to use the flexibility available in the process to not only simply identify corridor alternatives, but make sure those alternatives result in viable alignments to advance directly to a PD&E Study or final design. Our staff includes two former FDOT District 6 staff who supported planning studies that connected to PD&E as well as hundreds of projects that were advanced through the District Environmental Management Office (EMO). These projects included major and minor PD&Es and several Local Agency Program (LAP) projects including those being advanced by the City. Their experience also includes maintaining federal funds eligibility, working with federal grants both administered through FDOT through the LAP or direct recipient grants through FHWA. Our staff has experience working with FHWA staff at their Division in Tallahassee. Our staff is also well-versed in developing project documents that can be leveraged for permitting since we have FDOT in house experience in permit review, coordination, tracking, and preparation. Furthermore, our staff has worked with the Miami-Dade TPO and has experience with the how the FDOT programs work.

Where possible, our team will look to ***"close the loop"*** on issues that can be addressed early, or more simply, to further streamline the work needed in future phases. ***A key to the success of the corridor analysis will be to ensure that it meets requirements so the results can be adopted into a PD&E Study and can be adaptable based on funding eligibility as desired by the City, such as LAP funding through the FDOT.***

## UNDERSTANDING THE RFQ REQUIREMENTS


The ARDURRA Team has gathered a team of professionals that meet the requirements of the RFQ Section 2.3 & 2.5 and is illustrated in the table below. The lead for each scope item listed below are shown in the table, however the Ardurra Team includes many professionals in each category with the experience required.

Scope Item	RFQ Requirement	ARDURRA Team Member (Years of Experience)
Traffic Engineering and Transportation Planning	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer with 2 years post-registration traffic studies experience</li> </ul>	<ul style="list-style-type: none"> <li>Ytve Guerrero, PE (24)</li> </ul>
Roadway and Drainage Design	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer with roadway experience</li> <li>1 Florida State Board of Professional Engineer with drainage experience</li> </ul>	<ul style="list-style-type: none"> <li>Roadway: Patricia Torres, PE (19)</li> <li>Drainage: Kennedy Simmonds, PE (24)</li> <li>Permits: Nicholas Fernandez, PE (10)</li> </ul>
Landscape Architecture	<ul style="list-style-type: none"> <li>1 Florida State Board of Landscape Architecture with 5 years of post-registration landscape architecture experience</li> </ul>	<ul style="list-style-type: none"> <li>Scott Smith, RLA (18)</li> </ul>
Structural Design and Miscellaneous Structures	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer with 5 years of experience.</li> <li>2 design engineers/technicians with 3 years of experience.</li> <li>1 QA/QC engineer of design services</li> </ul>	<ul style="list-style-type: none"> <li>5+ Years: Diego Jimenez, PE (20)</li> <li>3+ Years: Jonatan Fernandez, PE (9)</li> <li>Eloy Rodriguez, PE (11)</li> <li>QA/QC: Alfredo Reyna, PE (30+)</li> </ul>
Contract Administration	N/A	Carolina Rincon (5)
CEI (Contract Specialist)	As described in Exhibit I – Minimum Qualifications for Key Personnel	Jenny Toruño, MS, PE (15)
CEI (Inspector)		Ivan Blanco (12)
CEI (Senior Inspector)		Albert Hernandez (13)
CEI (Senior Engineer)		Ricardo Escobar, PE, CGC (30+)
Material Inspection		N/A
Control Surveying	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer who has served in responsible charge of least one of project in work type</li> </ul>	<ul style="list-style-type: none"> <li>Manuel Vera Jr., PSM (30+)</li> <li>Ricardo Escobar, PE, CGC (30+)</li> </ul>
Design, Right of Way, Construction Surveying	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer who has served in responsible charge of least one of project in work type</li> </ul>	<ul style="list-style-type: none"> <li>Manuel Vera Jr., PSM (30+)</li> <li>Ricardo Escobar, PE, CGC (30+)</li> </ul>
Soil Exploration	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer with 5 years of soil exploration experience</li> </ul>	<ul style="list-style-type: none"> <li>Carlos Mercado, MS, PE (30+)</li> </ul>
Project Development and Environment Corridor Planning	<ul style="list-style-type: none"> <li>1 Florida State Board of Professional Engineer with 1 year of post-registration corridor planning experience.</li> <li>1 Planner certified with American Institute of Certified Planners with 1 year of corridor planning experience.</li> </ul>	<ul style="list-style-type: none"> <li>Silvia Beltre, PE (30+)</li> <li>Amanda Ashby, AICP (7)</li> </ul>


## Strategies for Completing Work on Time

**The ARDURRA Team possesses the leadership, communication skills, expertise, and problem-solving ability to ensure on-time performance for the assignments under this contract.** Our team understands that delivery of on-time work depends on the willingness of all parties to agree on scope, schedule, and budget and relies on a proactive project manager and team awareness to identify and reduce risks. Effective communication is the key to successful project management and delivery. Our Project Manager will work with the City's Project Manager to develop a scope, schedule, and budget. Our Project Manager, Ms. Silvia Beltre, PE maintains continuous communication with our technical leads to ensure the right team is selected and readily available to begin work as soon as needed. Silvia will ensure that there is consistency among all task orders with the City and that the adequate resources are allocated for each task. She


will focus on selecting the right team for the job composed of the most knowledgeable task manager and technical support staff, to cost-effectively meet the City's objectives and have the ability to commence work as soon as the task order is finalized and approved. Our team's proactive project management style follows the four stages of a project: Initiate, Plan, Execute and Control, and Closeout.

 The **Initiate Phase** includes our processes for submitting proposals that fully address the task and our approach for delivering the task. A detailed task work order proposal would include:


- Discussion of the task work order objectives, demonstrating our understanding of the required outcome
- Detailed work plan for achieving the task work order objectives, which clearly demonstrates our understanding of and planned approach to the issues
- Task Members: SMEs and identified Task Leader(s) with qualifications
- Delivery and performance schedule with planned accomplishments/milestones, anticipated problems or challenges, and planned solutions to anticipated problems or challenges
- Detailed price proposal with proposed level of effort and labor categories, corresponding labor rates, and other direct costs as applicable (materials, travel, shipping, copying, etc.)
- Task conflict of interest statement
- Task-specific quality control plan and contingency plan

 The **Plan Phase** applies to task work orders regardless of fee, duration, or complexity. We prepare a specific Project Management Plan for each task work order prior to beginning work to confirm task objectives with timely and high-quality deliverables. The plan is distributed to team members including subconsultants, and includes the scope, schedule, budget, quality plan, internal and external team members, project objectives, and constraints. Once agreement is reached with the City on scope and fee of a given task, Silvia will oversee the planning for execution of the task:

- Setting up the task in our project management system, including detailing schedule milestones
- Coordinating assignment of staff
- Establishing a task work order kickoff meeting with the Task Order PM to align project goals amongst assigned team members
- Establishing regularly scheduled internal reviews and meetings to monitor progress and communicate any changes
- Identifying any task-specific modifications to our project management plan, quality plan, or HSSE plan

 **Execute and Control Phase:** Upon securing approval from the City to begin work, our team will conduct the work as outlined in the Task Order Proposal and begin documenting and reporting on it. Our project manager will remain in close communication with individual task managers and their teams to support successful task completion and contract management. The primary management activities to successfully complete each task over the duration of the contract include, but are not limited to:

- Overseeing and coordinating all activities required to perform assigned tasks
- Developing detailed task work plans
- Monitoring and tracking all project execution tasks and activities, conducting status meetings, and preparing monthly progress status reports
- Assuring Technical Report Specifications are met
- Performing and coordinating quality control plans and risk and issue management plans
- Executing a change control management plan
- Facilitating deliverable review and approval processes
- Overseeing and coordinating project communications

 Implementing schedule control mechanisms and addressing scope changes are also key components to effective management. ARDURRA's **schedule control mechanisms** include:

- Maintaining a schedule that links dependent tasks and defines a critical path – focusing the team on completing the critical elements on time
- Tracking the project progress through continual monitoring and schedule updates
- Assigning and scheduling resources in advance so the work proceeds efficiently
- Issue an updated schedule prior to progress meeting that shows the current progress and highlights items that need targeting
- Applying a proactive approach that looks ahead for risk, benefits, and delays to take advanced action to promote successful and timely delivery



ARDURRA uses multiple scheduling tools including Microsoft Project and Primavera P6 CPM. Our project manager will track milestones and monitor project budget using these tools. In addition, we recognize that **scope change** can impact project deliverables, and we will work with the City when change management is needed, including investigating the impacts of the change on the fee, timetable, specifications, and other terms and conditions of the contract.

An effective **Communication Plan** is an integral component of any project plan and includes guidance for general communications with the City, internally, and key project stakeholders and advisement of day-to-day interactions, project issues, status, and decisions for each task order. It defines how information will flow and how relationships will be managed over the duration of the contract and is updated for each task order received. It describes how we will consistently provide timely information, methodically communicate the status of scope, cost, and schedule, as well as share key contract and task order developments. Our communications planning includes:

- Identifying our stakeholders
- Stakeholder engagement planning
- Assessing communication needs
- Establishing communication protocols
- Routine communications
- Emergency/crisis communications

## **Innovative Interaction and Communication with Community, City Staff and Multiple Stakeholders**

The key to successful projects lie in engaging stakeholders, understanding the community, the context, and their concerns. Our staff knows how to develop a public engagement plans that tell a story with a clear narrative that is meaningful and receptive to the community, proactive rather than reactive, and well documented. This team has experience leading public engagement for many types of projects including bridges, interchanges, and transit. We have hosted both in-person and virtual meetings ranging from public hearings, advisory committees, environmental forums, and workshops. Furthermore, our team is multilingual and has experience implementing Limited English Proficiency (LEP) measures. We know how to right-size public engagement depending on the project.

Our approach to public engagement is to meet people where they are, to do that we must have a clear understanding of the project area. In the planning phase, we can use remote tools such as GIS and geo-fencing to help identify stakeholders inside and outside the City. Using tools such as the FDOT Sociocultural Data Report, which provides a data summary of a project or community area that includes census data, neighborhood identification, and demographics, to create an inventory and help develop a plan that is adapted to the project area. We would also leverage County and City information to refine our community understanding to ensure meaningful engagement. This would include leveraging City meetings and staff contacts to further detail the plan.

Meetings would be right sized for the project type. We have both virtual and in person capabilities through web-based software such as Zoom, GoToMeeting/Webinar, and MS Teams to facilitate interactions with members of the public, regulatory/resource agencies, and staff. We also propose the use of pop-up kiosks at events, as appropriate, to ensure project information reaches the community to avoid unnecessary misunderstandings. These approaches would be supported by project-based websites or pages added to the City's website that can provide a continuous source of information for projects, easy to reach contacts, and an easy commenting portal. Our Team is also experienced in preparing electronic/hard copy newsletters, facts sheets, and brochures. We also have experience working with multiple media platforms such as newspapers, radio, television, and social media platforms. A broad approach ensures that we can reach multiple and diverse stakeholders.



Critical to public engagement is for affected communities to be able to visualize what is being proposed and how it may affect them; to that end our capabilities include:

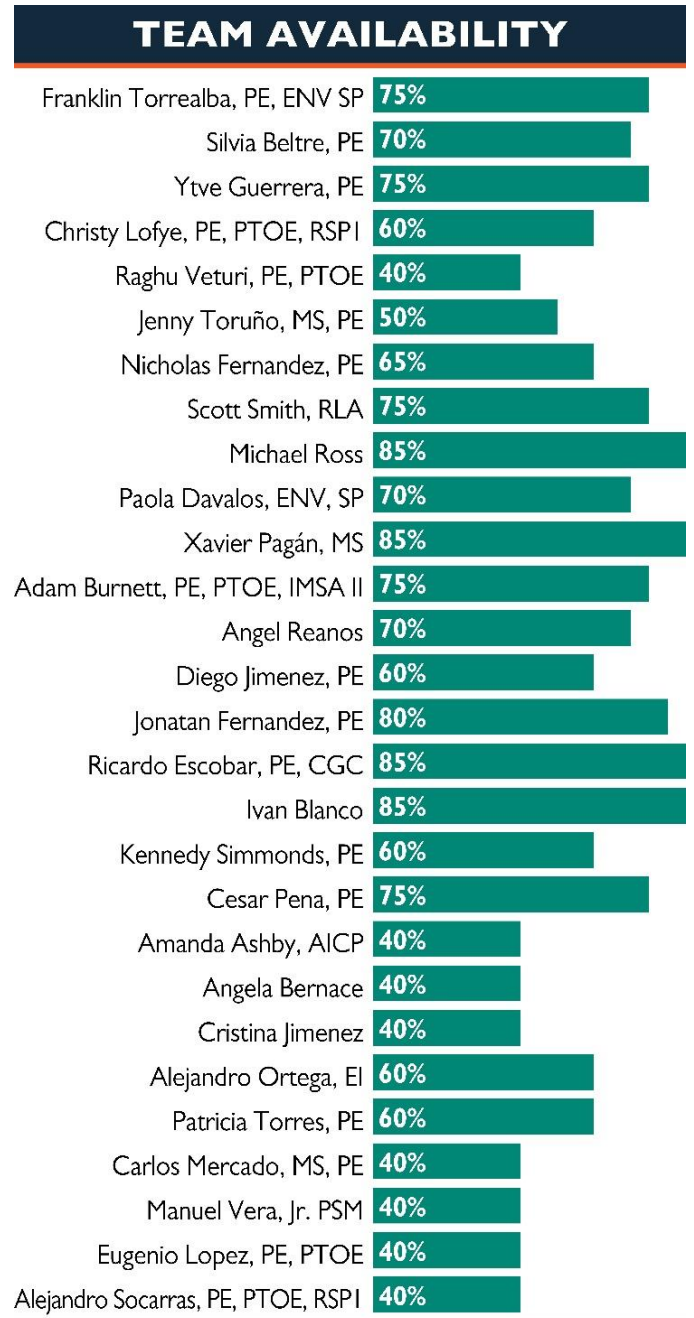
- Smartboards at public meetings
- GIS Interactive Storybook to track comments
- Drone footage to support visualization development
- Renderings, visualizations, infographics (360-degree view of proposed improvement)
- Virtual Reality Workshops
- Polling Platforms

- QR Codes (accessibility, sign-in, comment and survey forms)

Our public engagement plans will be coordinated with City staff and documented in a final Public Involvement Plan (PIP) when outreach efforts are requested. The PIP will include comment tracking mechanisms which will involve informing City staff of comments, proposed responses, and if further action from them is needed. Meetings will be documented through clear agendas, sign-up sheets, and meeting notes. Projects will further include a Public Involvement Summary Report that documents all engagement activities, comments received, responses sent, and action items.

### 3.2 Recent, Current and Projected Workload

Our Team utilizes a proven Project Management Plan (PMP) that facilitates the most efficient use of our available resources for projects of varying size and complexity. By following this PMP, we have been able to execute projects, concurrently or individually, both on time and at or under budget. Our management approach focuses on clearly defining a Work Plan at the onset of each project or task for the most efficient allocation of staff and resources to meet the specific needs of the project. We place an emphasis on schedule management and coordination with Task Managers, as well as with our client. Our PMP has historically guaranteed that specialized team members dedicate their efforts in the most efficient manner possible, so they are able to balance projects and continue to deliver professional, high-quality results. In addition, our Project Manager works with our Task Managers to identify any issues which may affect the Scope of Work, Budget or Schedule to anticipate and immediately address these issues. Also, in order to ensure proper manpower allocation to all our projects, our team prepares monthly Staff Projections. This allows for proactive identification of any over or under staffing needs for each of our projects. Once a need is identified, staff allocation can be properly implemented in a timely manner. **ARDURRA has extensive experience as program managers for multi-million-dollar programs, which has given us the expertise to properly manage multiple projects simultaneously and accurately plan for upcoming projects.** Adequate planning and organization are key to the successful execution of concurrent projects. We are committed to ensuring that our resources and staff expertise are effectively distributed throughout our projects, and this approach will ensure that the City’s needs are always met expeditiously. ARDURRA and its Team of sub-consultants for this pursuit have more than enough professionals available to handle the current and projected workload without significant challenges. The key personnel highlighted for our work with the City will be available to dedicate as much time as is needed to the services outlined in this solicitation, and additional support staff or other resources will be allocated without hesitation on an as-needed basis. Our Team provides over 100 local professionals available to provide the different services identified under this RFQ. The table on the next page summarizes the current workload, showcasing projects that have been recently completed, are currently active, and are projected. Also, the bar graph to the right shows the availability of our key personnel for the City’s needs under this RFQ. Our Team has ample capacity to assist the City on upcoming projects. Our project forecast shows that our team has more than sufficient resources to provide the City with any and all project services under this solicitation.



Status	Company Agency	Dates	Project Name	Scope
RECENT COMPLETED	FDOT D6	2020 - 2022	SR 5/Overseas Hwy. from MM 19.4 to 19.8 and MM 20.6 to 23.1	Resurfacing Overseas Highway & Florida Keys Overseas Heritage Trail, Raising the roadway, S&PM, Drainage improvements, Shoulder widening, Guardrail upgrades, Trimming mangroves
	FDOT D4	2018 - 2021	Brant Drive Bridge Replacement from Oregon Ln to Avocet Rd	EOR for Roadway, S&PM, Drainage, Lighting and Structures. The project included the replacement of a functionally obsolete bridge over SFWMD's Canal C-15.
	FDOT D1	2023	I-75 at SR 951 Interchange Re-evaluation	Prepared Interchange Modification Report (IMR) & NEPA Re-evaluations.
	FDOT D1	2023	I-75 at SR 951 Interchange Design Build Project	Reconstruct the I-75 interchange with SR 951 (Collier Boulevard) to provide safety and mobility improvements. The new interchange includes two new ramps over SR 84 (Davis Boulevard) to provide direct interstate access. The existing I-75 bridges over SR 951 will remain. New bridges to accommodate ramp traffic will be constructed adjacent to the existing I-75 bridges over SR 951.
CURRENT	FDOT D6 GMX	2018 - Ongoing	I-395 / SR 836 / I-95 DB Reconstruction	Bridge over Biscayne Blvd, Double decker over SR 836 and Miami River, Increased capacity on SR 836/I-95/I-395, Reduce weaving, Heritage Trail, crosswalks & bike lanes, revitalize Overtown
	GMX	2022 - Ongoing	SR 836 New Heft Ramp Connections	Design of new connections between SR 836 and the HEFT including new SB to WB, EB to NB, and new EB to Dolphin Station Road Ramps. Coordination with adjacent projects to provide full access to new movements. Railroad Coordination for the new bridge construction over the CSX rail corridor, including flagging operations and railroad approvals. The stormwater management permitting efforts will include SWPPP/Erosion Control, SFWMD, FDEP, MDDRER, State Fire Marshall, and Turnpike. New overhead signs alerting commuters of new connections will be required.
	FDOT D1	2023 - Ongoing	SR 70 from Lorraine Rd. to Bournside Blvd. Design-Build	Widening of 2.9 miles of SR 70 from a 2-lane rural roadway to a 6-lane urban roadway between Lorraine Rd. and Greenbrook Blvd./Post Blvd. and a 4-lane urban roadway between Greenbrook Blvd./Post Blvd. and Bournside Blvd. <i>Additional improvements include:</i> three roundabouts, bridge culvert replacement, signalization, ITS, lighting, shared use paths, landscape, and utility relocation work for Manatee County (UWHC Agreement).
	FDOT D6	2023 - Ongoing	SR 5/US 1/Seven Mile Bridge (Bridge No. 900101) over the Moser Channel	PD&E Phase for the replacement of the Seven Mile Bridge in the Florida Keys. Scope includes engineering analysis to develop roadway alignments and bridge types, environmental analysis and public/stakeholder outreach.
	FDOT D6	2023 - Ongoing	DW Load Rating - Structures	Ardurra is tasked with helping FDOT D6 maintain accurate load rating factors for bridges in Miami Dade and Monroe County. The rating factor are used by district for issuing overweight permits and help with decision such as determining if bridge is a candidate for widening on capacity projects.
PROJECTED	FDOT D6	2023 -2028	Traffic Operations Studies Consultant	DW TWO contract assisting with various types of analysis such as Signal Warrant Analysis, Intersection Analysis, Arterial Analysis, Speed Zone Studies.
	FDOT D6	2023 -2028	Pedestrian and Bicycle Safety Program Consultant	DW TWO contract assisting with various types of analysis - Safety Analysis focusing on pedestrian and bicycles crashes. Scope covers other studies - Signal Warrant Analysis, Intersection Analysis, Arterial Analysis, Speed Zone Studies.

### 3.3 Moving Projects from Concept to Completion

Independent of the project type, **ARDURRA has the perfect mix of professionals that will ensure that Transportation Projects will be successfully taken from planning to construction.** Our Miami office houses the Planning, Project Development and Environment (PD&E), Design and Construction Engineering Inspection (CEI) departments. Coordination between these departments always take place early in the process to ensure key aspects of future phases (design and construction) are accounted in early phases of the project.

Through experience, ARDURRA has developed a tried-and-true approach to undertaking projects from Concept to Completion. Our philosophy for successful project execution lies in placing significant emphasis on the planning and preliminary design phases of the project. By performing our thorough due diligence in the initial portion of the project, we minimize unknowns which may delay or hinder project performance. Part of this philosophy includes early permitting coordination, and public engagement from the project onset. It is our firm belief that community participation is essential in order to have effective projects which minimize impacts on the Community.

**Our team can demonstrate experience at all project phases and a deep understanding of processes, procedures, regulations, and requirements to advance projects.** Members of our team developed the innovative FDOT's Statewide Acceleration Transformation (SWAT) process which sought to better link Planning and PD&E and PD&E and Design. Because of our program and project level experience we understand how to maximize the flexibilities in process and procedures to streamline and reduce cost while advancing the project. The linkages were meant to streamline the processes and the required schedules. The Workbook developed for the statewide training outlines a process for experienced, cross functional, team members to thoroughly consider a project's complexities, scope, and priority to better inform Work Program Development, project schedule, class of action and funding type decisions (Federal vs. Non-federal funding); prior to project start date. Under the Office of Environmental Management (OEM) Support Contract, Ardurra team members led the development of Led the development of FDOT's statewide training for the Alternative Corridor Evaluation (ACE) process. The purpose of ACE was to develop planning products that could be adopted into the PD&E Study, especially NEPA, and focus analysis to streamline the level of documentation and the schedule. The ACE process is an effective, documented approach, which can be applied at the Corridor Planning level to establish potential alternative alignments and eliminate unreasonable ones from further evaluation.

#### **Typical Approach to Transportation Planning and Engineering Projects**

This team is skilled at identifying a project approach depending on phase, location, complexity, and funding. A key aspect of our approach is to make sure tasks and documentation connect to, and support, future project phases. When given an assignment we will identify the purpose, the documentation requirements, and lay the groundwork to connect to the next phase. The intent is to make sure the documents that area created can be leveraged to the greatest extent practicable, which would ultimately reduce duplication of effort.

We will gather and leverage information from previous studies and permits. When a planning task is assigned, our approach, thinking with the end in mind, is to consider:

- The products going to be used for (PD&E or straight to design);
- The funding source [federal (FHWA/FDOT), state (FDOT), or local];
- The Right of Way needs;
- The complexities/risks involved (environmental resources, public controversy, etc.);
- Other public agencies are involved; and
- Appropriate prework fits the project (feasibility, corridor, traffic, environmental studies, scoping reports, etc.).

When starting with the PD&E process, we would follow similar considerations, but the funding source is a critical path item in the approach which influences how documentation will be prepared. A federal funding source would trigger implementation of the National Environmental Policy Act (NEPA) and associated laws and regulations. In the instance where a project may have state funding, our team also has the experience preparing State Environmental Impact Reports (SEIR) and coordinating with FDOT District 6.

With a local funding source, we would implement preparing a Project Environmental Impact Report (PEIR) to ensure their projects meet environmental requirements The PEIR meets the regulatory alternatives analysis required by permitting agencies (such as SFWMD) and U.S. Army Corps of Engineers (USACE) and resource agencies (such as the U.S. Fish and Wildlife Service (USFWS), Florida Fish and Wildlife Conservation Commission (FWC), and State Historic Preservation Officer (SHPO)). Preparing more robust documentation in support of the PEIR, ensures the project can be adapted to FDOT NEPA Assignment process and can, therefore be more easily converted for federal funding eligibility and facilitate federal permitting. This approach also provides a link between the PD&E Study and the design tasks to make for an efficient permitting process and a method to save time on document preparation, review, and coordination.



Combining our program and project experience provides for an unmatched team to perform the key tasks described in detail below: existing conditions analysis, compiling of data, surveying, preliminary design, sustainability, geotechnical engineering, utility coordination, 30% drawings, final design, permitting process, procurement support, construction inspection and management, and health and safety.

### **Existing Conditions Analysis**

#### *Evaluation – Data Collection and Research*

The first step for a transportation infrastructure project is a detailed assessment of the existing conditions. This includes getting an understanding of existing roadway and intersection capacities (for all modes of transportation), presence and width of sidewalks, grading percentage and condition of textured surface for curb ramps, state of current drainage and lighting systems, and access management. Other design elements that need to be considered are types of traffic control devices (stop controlled vs. signalized intersections), facilities for transit system (i.e. bus shelters, bus stop signs, bus turn out lanes), bridge conditions, right-of-way limits, posted and design speeds, context classification, among others.

Establishing accurate existing conditions will ensure accuracy for Design recommendations. The existing conditions assessment involves field data collection, desktop verification, meetings with Operations and Maintenance personnel, field investigations, and testing as needed. Once the existing system conditions are established, critical locations and deficiencies are identified, the impacts of potential improvements and impacts of natural growth of the area can be analyzed to create and evaluate the most cost-effective, and feasible design alternatives to meet the City's needs.

Our team will execute pertinent data collection and research through the review and examination of existing documentation, such as: databases, maps, plans, As-builts, record drawings or other engineering drawings, GIS shapefiles, Supervisory Control and Data Acquisition (SCADA) monitoring reports, hydraulic modeling reports, system atlas sheets, topographical data including LiDAR from the Department of Emergency Management (FDEM), plat book, Right-of Way and property information from the County Appraiser's website, historical records.

Other data sources that will be considered are large databases such as Streetlight, RITIS, INRIX, etc. In addition, Signal Four Analytics will be used to download crash data. To complete the detailed assessment of the current system conditions, our team will conduct field studies, as applicable to the project, which may include the following:

- Interviews with residents and other stakeholders to gather knowledge multi-modal operations in the area and potential areas for improvements.
- Visual inspections

### **Compiling of the Data**

Base maps will be put together to summarize the data gathered. These basemaps will also be used for development of design concepts. Our approach to execute infrastructure projects that are resilient, robust, environmentally responsible and future proof, includes the incorporation, early on the project life cycle, of sea level rise projections through the planning tools developed and recommended by the Southeast Florida Climate Change Compact, including: Unified Sea Level Rise Projection for Southeast Florida, Region-wide and County-wide Sea Level Rise Inundation Vulnerability Assessments and the USACE Sea Level Change Curve Calculator.

In addition, our team of experts is ready to assist the City in all the required initiatives, including:

- Sea level rise projections integrated with tidal-induced flooding in the City, as well as flooding conditions during extreme events (hurricanes and tropical storms)
- Stormwater management models to identify areas and infrastructure at increased risk of flooding and tidal inundation with increases in sea level
- Develop and apply appropriate hydrologic and hydraulic models to evaluate flood control/drainage infrastructure performance under variable climate conditions
- Hardening of infrastructure subject to tidal influences and at risk of saltwater intrusion issues

### **Surveying**

The need to properly locate all existing utilities, drainage structures, buried assets and other structures in the right of way and project vicinity is critical for the success of the design phase and the minimization of change orders, construction claims, and delays. ARDURRA

will use MGV to perform surveying for the project. At the City's request, our team will conduct an initial site visit with our surveying team to define the scope of the survey requirements. These requirements may include defining the baseline, stationing, determining and reflecting easements, analyzing plats and deeds, and collecting additional survey information that may be needed for the design to meet the City and Miami-Dade County's Standards.

Survey field crews will be dispatched to begin the reconnaissance and data collection of existing horizontal and vertical control points. This information will ultimately be imported into the survey base map. Surveyed locations will include all aboveground utilities as well as pavement, sidewalks, driveways, swales, signs, streetlights, and others. The survey will include rim elevation, inverts, pipe sizes and directions for all drainage and wastewater structures. Our team will coordinate with the City to utilize the most modern field techniques and equipment including reflector-less total stations, automatic and digital levels and dual-frequency static and RTK GPS systems.

### **Preliminary Design**

Based on meetings and discussions with the City of Coral Gables staff, we will review and develop preliminary alternatives in order to select the best option for all stakeholders. At this point we will also update the project schedule and produce a cost estimate for the project.

### **Sustainability**

ARDURRA is committed to the environment and to applying principles of responsible and sustainable design in our civil and environmental engineering projects. We strive to integrate conservation, including stormwater and energy saving technology into infrastructure planning and execution. In addition ARDURRA provides exceptional services that enhance local and global environmental quality, enrich local economy, and strengthen the health and well-being of residents and local businesses.

We fully understand and support the City's interest and goal to become a more resilient community. This can be achieved not only planning, designing, and constructing sustainable projects, but also operating and maintaining infrastructure on a more environmental-friendly and cost-effective manner.

ARDURRA is an Envision Certified firm by the Institute of Sustainable Infrastructure (ISI). Our team has ten (10) Envision Certified Professionals, just in our Miami Office, that are trained in the latest Envision V3 Rating System and are available to assist the City in obtaining its sustainability goals through the implementation of future proof and resilient projects. ARDURRA also one of the very few local A/E Firms certified by the ISI.

Envision is a framework that allows project owners and consultants to incorporate sustainability and resiliency concepts in the full range of social, economic, and environmental indicators to their infrastructure projects. The Envision rating system offers a guide to make sustainable choices throughout the lifecycle of each infrastructure project, from planning to project closeout.

Sustainable designed and constructed projects can fail if they are not operated to maintain, or even enhance, their performance targets. Sustainability is also about reducing the social, environmental, and economic impacts of ongoing maintenance. In addition, failure to adequately maintain and monitor infrastructure can also lead to degraded performance with significant environmental, social, and/or financial consequences. For example, the cost to repair and maintain roads exponentially increases the further they degrade. In addition, poorly maintained roads lead to increased congestion, increased vehicle maintenance, accidents, and personal injury, which all create a financial burden on a community.



### **Geotechnical Engineering**

Infrastructure projects require the acquisition of soil and/or geotechnical data. ARDURRA will utilize UES for soil investigations. Soil borings will be obtained for each project per Miami-Dade County standards. If the presence of any type of contamination is perceived at the project site, the information will be properly documented in the geotechnical report and the applicable regulatory Agency will be

notified. The results of the geotechnical investigation will be incorporated in the 30% design submittal, these results will include the following:

- Soil types and conditions
- High seasonal groundwater elevations
- Isolated near surface unstable soils

### Utility Coordination

Our team will contact Sunshine One Call – State of Florida (SSOCOF) to identify all utilities pertaining to each project before completing the 30% design submittal and, most importantly, before digging activities begin. Our team will assure that the selected contractor receives the correct as-built for every underground utility that may generate conflict with the proposed project during the construction phase. The early identification of existing utilities will prevent disruption of utility services and could save the City possible penalties demanded by other utility companies in the event of damage to their underground property. As the project proceeds into final design, utility coordination meetings will be scheduled at the 100% design phase to mitigate conflicts or utility relocation efforts. Our standard utility matrix includes the following:

- Utility Company
- Request for As-built date
- As-built received date
- Utility contact person, including phone
- E-mail
- Identified conflict (if any)

### 30% Drawings

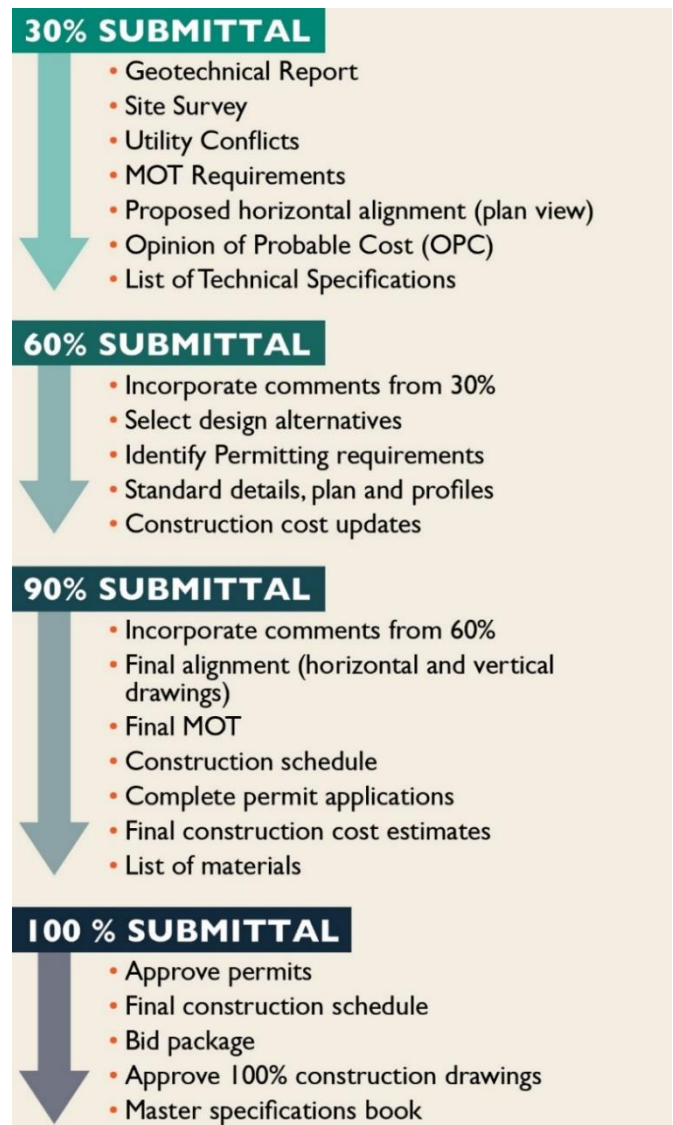
Based on all information acquired in the Preliminary Engineering phase, meetings and coordination with the community and City staff and 30% engineering documents will be produced. By meticulously looking at all aspects of the project, from community involvement to possible constructability concerns, in the planning and preliminary project phases, the design can be expedited to completion.

### Final Design

At the 60% and 90% Design Reviews, ARDURRA staff will meet with key City staff to confirm that each design milestone demonstrates a progressive implementation of the conceptual design. These meetings include discussions on construction sequencing, general requirements (submittals, photos, testing, O&Ms, training, etc.), and instrumentation controls in order to fully inform and solicit input from the City. A schematic depicting the Engineering Design process and deliverables is shown in this section; however, we understand that in some projects the City prefers a 30%, 90% and 100% delivery schedule. We will accommodate these preferences if desired or requested by the City.

### Procurement Support

Implementing an effective procurement system for an infrastructure project requires an understanding of a wide spectrum of proven procurement methods and contracting methodologies, as well as an experienced understanding on aligning varying strategies with specific project needs and risk allocations. Evaluating the benefits of a given procurement method should consider several goals that are essential to defining a successful procurement process as follows:





- Recommend procurement processes, methodologies, and selection criteria that are competitive, fair, objective, and transparent within the framework of a well-advertised and administered process
- Implement cost-effective procurement methodologies to allow the City to receive the best value for the services
- Clearly define the evaluation criteria
- Minimize procurement process durations and allow for adequate response time from bidders
- Ensure transparent scoring methodologies that meet the City's requirements for lifecycle cost

Our Team has experience with multiple delivery methods, including:

- Design/Bid/Build
- Design/Build
- Progressive Design/Build
- Construction Management at Risk (CMR)

ARDURRA stands ready to assist the City with the preferred delivery method. For example, we have assisted our clients in saving thousands of dollars by using Design/Build for small pipes and water services relocation projects.

Our assigned Engineer of Record will be responsible for attending the project pre-bid meeting and respond to any questions from the potential bidders either during the meeting or via addendum. Once bids are received, the Engineer of Record will review the bids, assist in any clarifications required by the bidders, research contractor qualifications, ensure all documentation is in order and advise the City's staff as to the ranking of the bids.

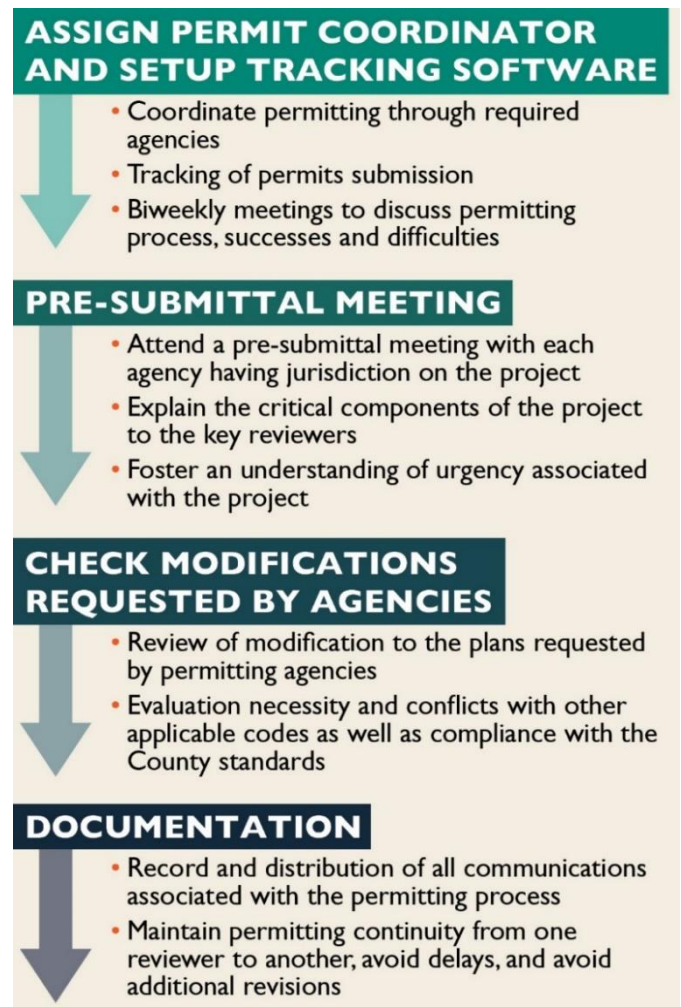
Our team will also assist the City in the preparation of the bid documents to use during the bidding process. These bid documents will include signed and sealed plans, signed and sealed technical specifications, front-end documents, permits / dry runs, and all supporting calculations as required.

### Permitting Process

Early identification of the agencies having jurisdiction on the project as well as a clear understanding of their standards, specifications, permit requirements, and timeframes associated with processing and review of the plans and permit applications is vital to the success of any project. Our team will prepare Permit Packages to obtain applicable signatures once the 90% submittal (Permit Dry Run Submittal) has been reviewed and approved. Our team will submit the Permit Packages and checks to the respective permitting agencies and respond to any request of information the agencies may have. The submittal of the Permit Package will generally contain the following information:

- Revised 90% drawings and specifications signed and sealed by the EOR
- Traffic control or MOT included in the drawings
- Required support information
- Completed permit applications for each agency, signed and sealed by the EOR
- Comprehensive permitting matrix and tracking sheet with indication of dates of submittal of each application and approval or comments from the corresponding agency

Our working relationship with the various local, state and federal regulatory agencies is very well established. This experience extends to all the local municipal building officials, as well as municipal utilities and public works departments. Through our long-standing local experience, we have a clear understanding of the permitting processes





and procedures in Miami-Dade County and can navigate through them efficiently. A carefully crafted permitting plan will reduce the length of the permitting phase of the project.

While each project has its own design complexities and specific permitting issues, our streamlined permitting management approach has successfully been implemented in many projects and has resulted in a considerably abridged permitting phase. Mr. Nicholas Fernandez, PE will be our permitting specialist, who will ensure that all Agencies are well informed of all contracts ahead of time and guarantee expedited processing.

### ***Construction Inspection and Management***

In the final stages of the project lifecycle, our team will provide construction inspection and management services for the City. Our team will support the City with all the necessary construction engineering to help manage the Contractor's performance to deliver completed projects in compliance with the contract documents, industry standards, regulatory requirements, and specific City and Miami Dade County standards.

Our Construction Management team has vast experience in construction administration with the experience of hundreds of projects, and billions of dollars in construction costs. We will provide the City with superior construction management and related services including clarifications to plans and plans revisions, construction inspections, change order reviews, MOT, claims reviews, analysis of construction schedules, laboratory test results, field verification of construction techniques, application for payment/lien release processes, photographic record of construction progress, RFI's response, and Shop Drawing/Submittals reviews. We are also fully committed to establish a professional relationship with the Contractor to promote quick resolution of any issues that might arise. Our goal is to provide the Contractor with the information they need to build the project in a timely fashion.

We will apply a systematic review approach of all submittals based on the specification requirements and the City's instructions. We will also review project schedules to notify the Contractor if they are missing or are late with critical submittals, we will adapt the project schedule and budget according to the construction progress, maintaining the City fully informed of the project status at all times. Our in-depth expertise and knowledge of the entire construction process makes us an informed and collaborative partner whose active participation will be critical in achieving the City's goals.

### ***Health and Safety***

At ARDURRA, Health & Safety (H&S) is number one, our staff members treat H&S at work as paramount. Ensuring a H&S environment is a management responsibility that is a must in every project site. Addressing H&S issues is an integral part of every manager's role, particularly those involved in the management and supervision of the construction work.

One of our major duties as the City's consultant will be to review the Contractor's site-specific safety plan and to make sure it is sufficient to ensure a H&S work site. Moreover, we will monitor the proposer application of the safety plan during the construction phase. Typically, these plans shall contain the following key information:



- Project address and site map showing the work zone
- The names and contact information of the contractor and person(s) responsible for site safety
- A hazard analysis, including a description of the known and potential hazards and evaluations of the risks
- A description of the personal protective equipment to be worn by personnel in the work area and when it will be used
- Training requirements: list the specific hazard related training that is required for workers on site and verify employee training
- Hospital/emergency room map with written driving directions
- Emergency notification procedures in the event of an injury or chemical release
- An acknowledgment page for all personnel who come onto the site verifying that they have been trained and have reviewed the site safety plan

In addition to the safety plan, monitoring safety during construction is key. We will coordinate with the City's project manager for reporting of daily health and safety practices and performance of the contractors. Safety documentation and photographic records will be maintained in our daily reports. The City can be rest assured that our team will prioritize the enforcement of safety.

### 3.4 Schedule Control, Cost Control, and Quality Control



#### **Schedule and Cost Control**

We utilize Primavera P6 Project Management and/or Microsoft Project software to plan and track projects, budgets, identify and address issues and risks, manage our resources, and prepare reports. At the onset of every project, our project controls team will prepare baseline schedules which are developed in accordance with the City's needs and expectations. Immediate corrections will be made as needed to ensure that the projects progress according to scope, schedule, cost and quality standards. We perform integrated change control, if the requirements of the project have changed, or the project is not proceeding as it should. This may include updating the scope and schedule baselines, applying more resources to the project; informing the City of changes and proposed actions, and implementing the changes to the project.

During the design phase, our project control team will use a 4-week look ahead to track project progress; then, during construction, our team will utilize a 2 to 4 week lookahead, depending on the production rate of each project. These scheduling tools allow us to work proactively during design and stay ahead of the contractors during construction; therefore, allowing our team to meet schedules and set deadlines. As part of our approach to successfully meeting these requirements, we have already assembled multidisciplinary teams that are ready to address multiple simultaneous projects in the different areas of service identified in this solicitation from day one. Moreover, this team was carefully selected to provide an ideal combination of nationwide and local expertise that will allow us to execute any type of Civil or Environmental Engineering project, no matter the size, uniqueness or complexity.

Along with the selected key staff members for this pursuit, the Team counts with over 100 local professionals that are available to support the City in any pre-design, design, procurement support, construction management, operations & maintenance, or other need that might arise. This Team will provide the right staff at the right moment, as we have the capabilities to continuously ramp up or down, according to the needs and schedules of the project.

Another key element of our approach to meet budget and schedules lies in our effective and proven Project Management Plan (PMP) and Project Management Team. As described previously, we have developed a proven Typical Approach Transportation Projects, that can be easily tailored to every specific project's needs. Through the implementation of this step-by-step approach, we will be able to control project budget and schedules with the supervision of our experienced project leads. Moreover, at the onset of each project, we will coordinate with the City staff to develop specific Work Plans.

We will use our current experience on related projects and the expertise of our technical specialists and advisors to provide valuable insight of the type of activities that require focused attention and are critical to a project's success. We will leverage this experience to provide realistic and executable time and budget estimates for the services contemplated under this solicitation.



#### **Quality Control**

Quality is one of our core values and what separates us from the rest. We ensure that our most experienced and qualified professionals are selected to perform comprehensive reviews of documents at every step of the way, including internal milestones. Our Project Quality Management approach focuses on prevention, rather than inspection and correction. All members of our Team will follow the quality plan procedures and our Project Manager will ensure that these procedures are followed and that the final project deliverables meet and exceed the City's requirements. Quality planning will be performed at the onset of the project where we identify quality standards and indicators for the project. We will incorporate the City's requirements into this process to assure that all stakeholders are satisfied with the project results from inception through project completion and close-out.

We will also perform Quality Control Checks at strategic points (at 30%, 60%, 90% and 100% completion stages), to ensure that the project deliverables meet the quality standards set forth in the project. All project deliverables undergo a formal Quality Control process. Work performance will be evaluated throughout the project, including technical quality, schedule, and cost performance.

At ARDURRA, we use proven change management strategies such as "Lean" methodology as our system for continuous improvement. This has resulted in the elimination of "waste," or non-value adding activities, thus streamlining our internal processes, and our approach

to project management, increasing our organizational and procedural efficiencies. We strive for excellence, optimization and improvement opportunities in each endeavor we undertake.

### 3.5 Projects with Community and Business Involvement

Our team has extensive experience supporting community participation and public involvement from the very beginning stages of project planning through design and construction. We have conducted public outreach activities at the planning level (during PD&E Studies) but also during the design and design/build phases.

Our Public Outreach Specialist will be responsible for generating and reproducing all types of graphics, exhibits, presentations, newsletters, video simulations, modeling, websites, news releases, advertisements, and press kits to allow for effective outreach to the community. We are well-versed in engaging with the community and responding to questions, thereby providing an opportunity for the entire community to be involved in developing the potential range of solutions to be studied throughout a project. We can successfully handle these efforts to the degree desired by the City. We understand the importance the residents place on the visual appearance of the worksite and minimizing workflow delays or interruptions. Throughout all future projects, it is expected that the community will be interested on any impacts to local businesses, any emergency services and anticipated construction schedules. The community will need and will receive assurances during all phases of a project. Our Public Outreach Specialist will be the point of contact for the Community, alleviating the burden on City's staff.

The ARDURRA team fully understands the impact that any transportation planning or design project may propose alternatives that could impact access to business establishments (driveway consolidation) and/or recommend median openings or new intersections. These proposed alternatives impact traffic flow patterns and in turn need to be communicated to citizens in general. In addition, with the emphasis on multimodal facilities and roadway equity, feedback from the community is needed to better implement elements of infrastructure that will allow for a safer and more comfortable use of the roads.

During project implementation/construction impacts from operations zones such as moving trucks and backhoes, excavation activities, material storage and staging areas may at times affect ingress and egress points for residential neighborhoods, schools, arterial businesses and industrial operations. These impacts need to be communicated to all the stakeholders of the area. Mobility through the City may be inconvenienced by:

- Traffic delays due to traffic signage, flagmen, and detours through the existing narrow two-way streets
- Dust and noise annoyances as a consequence of equipment operation
- Health and safety concerns by residents having to tolerate the inflated dust levels and heightened risk of accidents that result when trucks are detoured to unfamiliar routes
- Access restrictions to business in the vicinity of the construction zone, resulting in potential loss of revenue
- Heavy vehicle stalling that arises when trucks are forced to remain idle in long traffic queues
- Possible disruptions to power, telephone, and water if there are accidental breaks during construction
- Disturbed driveways and green areas due to heavy equipment activities

Our Team is fully aware of the expected Community concerns and will employ every measure to mitigate them. To address community impacts and minimize complaints, the Team will develop and implement a community outreach plan in close coordination with the City. It may include organizing public campaigns, hosting town hall meetings, circulating literature, or creating webcasts in an effort to inform the community about the project and rally support for the project within the community. The goals of the community outreach plan will include:

- Implementation of the City's Public Involvement Plan
- Educating the community as to the importance of the project
- Informing affected residents of all the potential impacts of the construction activities prior to construction start date. The community will be fully informed of the project's construction schedule, traffic delays at school zone areas, business access and egress restrictions, dust and noise annoyance issues, dewatering activities, and material and equipment staging locations that may affect driver and pedestrian maneuverability.
- Establishing points of contact with the news reporting community (TV and radio) to ensure all traffic situations are advertised before they occur.

As mentioned earlier ARDURRA recently acquired 300 Engineering Group which has recent experience working with the City in community involvement activities. 300 Engineering was tasked in early 2019 to complete a City-wide Sanitary Sewer Smoke Testing as required by the Florida Department of Environmental Protection (FDEP). Right at the onset of the project 300 Engineering Group discussed with the City's Project Manager the importance of conducting a thorough and robust Community Outreach Program. As such, 300 Engineering Group performed the following actions

- Contacted and Informed City of Coral Gables Fire Department
- Contacted and Informed City of Coral Gables Police Department
- Contacted and Informed 911
- Prepared notice posted at City's website
- Prepared and distributed over 11,000 door hangers to City's Residents and Businesses
- Responded to questions and concerns by the City's Residents and Stakeholders

As a result, zero incidents and complaints were recorded by the City.

On a separate project, 300 Engineering Group assisted the City with the Design of Drainage Infrastructure to address local flooding issues. The project was initiated by a complaint from a City resident. This complaint was routed to 300 Engineering Group to perform a field assessment to evaluate the conditions of the street, drainage infrastructure, sidewalk, swales and other relevant information. 300 Engineering Group went above and beyond and, with the City's permission, contacted the property owner to obtain input of the issue at hand. This conversation was key to better understand how the property was being affected by stormwater ponding and runoff during rainfall events. This is an example on how keeping residents informed of the progress of the project is key to successfully complete a project. Our approach to dealing with the community complaints will entail engaging them, having them understand and appreciate the value of the project, presenting amicable solutions to the inconveniences, and always forewarning them of delays and detours.

### 3.6 Working with Others

**Transportation Planning and Engineering is synonymous to team effort.** Transportation planning projects or design projects require a group of effective ideas, from different disciplines, to work together to provide meaningful solutions.

A team is not only defined by the group of individuals or firms that agree to work together. As a project evolves, the definition of team may change to include companies that are working in adjacent projects, representatives from other departments within the City of Coral Gables or professionals actually working on the construction of the project that has been designed. Whichever the role may be ARDURRA staff has vast experience working with other consultants.



ARDURRA's professionals have worked in numerous Planning, PD&E Studies, Design and D/B projects. These types of projects require close coordination with many different consultants. The coordination with other consultants (outside of the project team) may emerge to provide consistent design between adjacent projects. Also, coordination with other consultants may be necessary in order to obtain data, electronic files, models, etc. from previous phases of the project.

Due to the advances in technology, Our Team may need to coordinate with other City's consultants that provide different services such as technical equipment, aesthetics elements and public involvement.

Other cases where coordination with other consultants may arise could be coordination with consultants providing multi-modal services (new stops for trolley/bus, improving headways and frequency) that need to be incorporated into an arterial traffic analysis.

As mentioned previously, open and effective communication are key to the success of any project.



# SECTION IV

## Past Performance & References



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## SECTION IV: PAST PERFORMANCE AND REFERENCES

### 4.1 Recent and Relevant Projects

#### SR-836/I-395/I-95 DESIGN-BUILD RECONSTRUCTION

The I-395/SR 836/I-95 Design-Build Project is a reconstruction project that improves capacity and safety in three of Miami-Dade's highways, SR 836, I-95, and I-395. This project boasts a double-decker over the SR 836 and Miami River, new lanes on I-95, a new Signature Bridge on I-395 over Biscayne Boulevard, and a 55-acre Heritage Trail underneath I-395 which will forever connect Downtown Miami and will revitalize the Overtown community.



We are working closely together with the Archer Western – de Moya Group JV Team to manage and oversee all design elements throughout the three corridors for this \$838 million construction effort. Our staff will additionally be responsible for the maintenance of traffic on all corridors and Structures work throughout the project.

The improvements along SR 836 begin west of NW 17th Ave. and end at the I-95 interchange. A new double-decker bridge will be erected over SR 836 that will begin near NW 17th Ave., by the Marlins Stadium, and continue east to MacArthur Causeway bypassing I-95 providing a direct connection to Miami Beach and Downtown Miami, dramatically improving traffic flow! The double-decker bridge will provide spectacular views of Miami including the skyline as you cross the Miami River over 100 feet above ground. The project includes a spectacular 1,025-foot iconic Signature Bridge that will span over Biscayne Boulevard and features six arches springing from one central arch thrust block – a first for bridge design. The tallest arch reaches 330 feet in height. The bridge deck is suspended by steel cables that traffic will drive through as they arrive or depart Miami Beach.

*A transformative and extraordinary infrastructure project that will make history, while improving mobility and safety!*

#### ALHAMBRA CIRCLE PAVEMENT MARKINGS

ARDURRA, formerly known as 300 Engineering, LLC - was contracted by the City of Coral Gables Public Works Department to provide design services for the Alhambra Circle Pavement Markings project. The project area is along Alhambra Circle from Le Juene Rd to Segovia Circle, approximately 1,600 LF in length. The Water and Sewer Department recently installed a new water main within the project area disturbing the existing pavement. The City of Coral Gables took initiative from the water main's pavement restoration and performed a study to determine if any additional design services would be beneficial. Existing conditions prior to this project included a 12-foot driving lane with a 4-foot-wide bike lane. This narrow bike lane posed a safety hazard for bicyclist within the project area due to its characteristic high traffic.



*ARDURRA provided design services for the widening of the existing bike lane from 4-feet to 5-feet wide, in addition to reducing the over-sized travel lane to compensate for the wider bike lane.* Design services included a design drawing set from a topographic survey showing the limits of asphalt restorations, pavement markings design and a typical cross section. In addition, a quantity take-off table was provided with all proposed design features which was used for construction estimating and execution.





## PD&E STUDY FOR SR 836 SW EXTENSION FROM NW 137 AVE TO SW 136 STREET\*

This study proposes a new transportation corridor extending SR 836 in the southwest region of Miami-Dade County. The project is envisioned as a 4-lane limited access, tolled facility that will provide better mobility, connectivity and enhanced accessibility. Several alternatives in different corridors were considered and evaluated through the Alternative Corridor Evaluation (ACE) process. The project is a complex mosaic of natural, cultural and community features. A comprehensive Public Involvement Plan (PIP) was carried out to involve concerned stakeholders.

The PIP included the following techniques: **1) Environmental Forum (agencies and environmental groups), 2) Citizens Advisory Committee, 3) Cultural Resource Committee, 4) Scoping meeting, 5) Corridor Workshop, 6) bi-lingual (Spanish) collaterals and 7) website updates.**



## I-75 AT SR 951 INTERCHANGE DESIGN BUILD PROJECT

This project has been envisioned for many years to provide safety and mobility improvements to this vital interchange. Recent growth in the area led to several previous improvements, including the widening of Collier Blvd. to eight lanes and operational improvements at the I-75 interchange and the SR 84 intersection. The RFP concept, approved by FHWA, prioritizes the large volumes to/from Marco Island and Ft. Myers/Tampa by bridging the SR 84 intersection. The de Moya / PHD team presented several Alternative Technical Concepts (ATC's) that reduced overall cost, enhanced safety, improved mobility and reduced overall construction duration. Our team's bid was approximately 20% lower than the 2nd place team.

### Key features include:

- **Ramp A1: Grade separation of SB I-75 to SB Collier Blvd. over SR 84**
- **Ramp C2: Grade separation of NB Collier Blvd. to NB I-75 over SR 84 and a barrier separated loop ramp under I75**
- **Ramp A3: New loop ramp for SB Collier Blvd. to SB I-75 to replace the at grade left-turn.**



ARDURRA is responsible for the overall design of the new interchange of I-75 at SR 951 (Collier Boulevard). The new interchange includes two new ramps over SR 84 (Davis Boulevard) to provide direct interstate access. The existing I-75 bridges over SR 951 will remain. New bridges to accommodate ramp traffic will be constructed adjacent to the existing I-75. ARDURRA also led the development of Interchange Modification Report (IMR) Re-evaluation triggered by the interchange layout changes considered in the Design-Build Concept (ATC). Tasks ranged from preparation of the scope of work and the hour estimate, to preparation of the Methodology Letter of Understanding (MLOU) and IMR Re-evaluation Report. Tasks related to traffic engineering encompassed review of Travel Demand Forecasting results, and development of Traffic Operational Analysis for AM and PM peak hours along the limited access facility using the Highway Capacity Software (HCS).

## SR-9/I-95 FROM SOUTH OF SR-870/COMMERCIAL BLVD TO NORTH OF CYPRESS CREEK

Study to increase capacity on I-95, the interchanges at Commercial Boulevard and Cypress Creek Road, and the adjacent intersections to both interchanges. **The project was evaluated to improve safety and accessibility within the study area, including access to I-95 and the adjacent arterial intersections.** Secondary considerations for the purpose and need of this project include system linkage, modal interrelationships, transportation demand, social demands and economic development, evacuation, coordination with adjacent projects and building consensus via Public Involvement. The improvements proposed as part of this project complement the I-95 Express Lanes improvements with the addition of auxiliary lanes in both the northbound and southbound directions. Key components of the study included coordination with the Park and Ride facility to facilitate ingress/egress and incorporate transit needs.





## 4.2 Past and Present Contracts with the City

ARDURRA has never had a contract with the City of Coral Gables. However, 300 Engineering Group, LLC, has had two (2) contracts with the City (RFQ 2015-09-04 & RFQ 2019-015)

## 4.3 Discontinued Use of Proposers Services

ARDURRA has never failed to complete a project nor any of our clients have discontinued the use of our services within the past two years.

## 4.4 Litigation Record

Ardurra Group, Inc., its affiliated entities, and their officers and directors have no prior or ongoing criminal or civil litigation, investigations, arbitration, or administrative proceedings that would affect the successful delivery of this contract. Because of our size and volume of business, ARDURRA has occasionally been named in litigation arising out of the ordinary conduct of its business, most of which are unrelated to the performance of its professional services (such as slip-and-fall claims). It is the opinion of management that the resolution of any ongoing actions will not materially affect the consolidated financial position of the company, the company's operations, or the company's ability to perform the services being solicited.

Below is a list of litigation related to ARDURRA's professional services commenced in the five years preceding the date of submission of this response:

- Mozghan Ellison Courtois et al. vs. City of Manhattan Beach. 2019 personal injury matter in California. Matter was settled.
- Joseph Dennis Gilberti, Jr. vs. Ardurra Group, Inc., King Engineering Associates, Inc. Henningson, Duram & Richardson, Inc., Stantec Consulting Services, Inc., Carollo Engineers, Inc., Progressive Water Resources, LLC, and Hazen and Sawyer, PC. 2019 Florida matter involving frivolous claims against design firms. Matter was dismissed.
- Bowen and Kron Enterprises Inc. and Vapor Industries, LLC vs. Ardurra Group, Inc. 2022 matter in Texas involving construction costs. Matter was closed.
- Marissa Velasquez v. Hunter Industries, Ltd., Hogan Murray, Inc. d/b/a Murray Construction, Bryan J. Spina, LNV, LLC, and LNV, Inc. 2022 motor vehicle accident in Texas. Matter is ongoing. ARDURRA denies any allegation of fault.
- City of San Diego vs. The 5125 Company, 2GS, LLC d/b/a Earthworks Enterprise, Ardurra Group, Inc. d/b/a LNV and f/k/a LNV, LLC and f/ka/ LV, Inc., and Robert Viera, P.E. 2022 matter brought by municipality in Texas regarding construction of a drainage improvement project. Matter is ongoing. ARDURRA denies any allegation of fault.
- Christopher Hernandez v. City of Doral, A.U.M. Construction, Inc., & 300 Engineering Group, P.A. 2023 motor vehicle accident in Florida. Matter is ongoing. ARDURRA denies any allegation of fault.
- AFR LLC v. Atlantic Subsea, Inc. & Sea Gate Association and Atlantic Subsea, Inc. vs. CG 3PL Engineering Design Professional Corporation and Rogers Surveying, PLLC. 2024 matter arising from construction of bulkhead in New York. Matter is ongoing. ARDURRA denies any allegation of fault.

# SECTION V

## *Agreement Comments*



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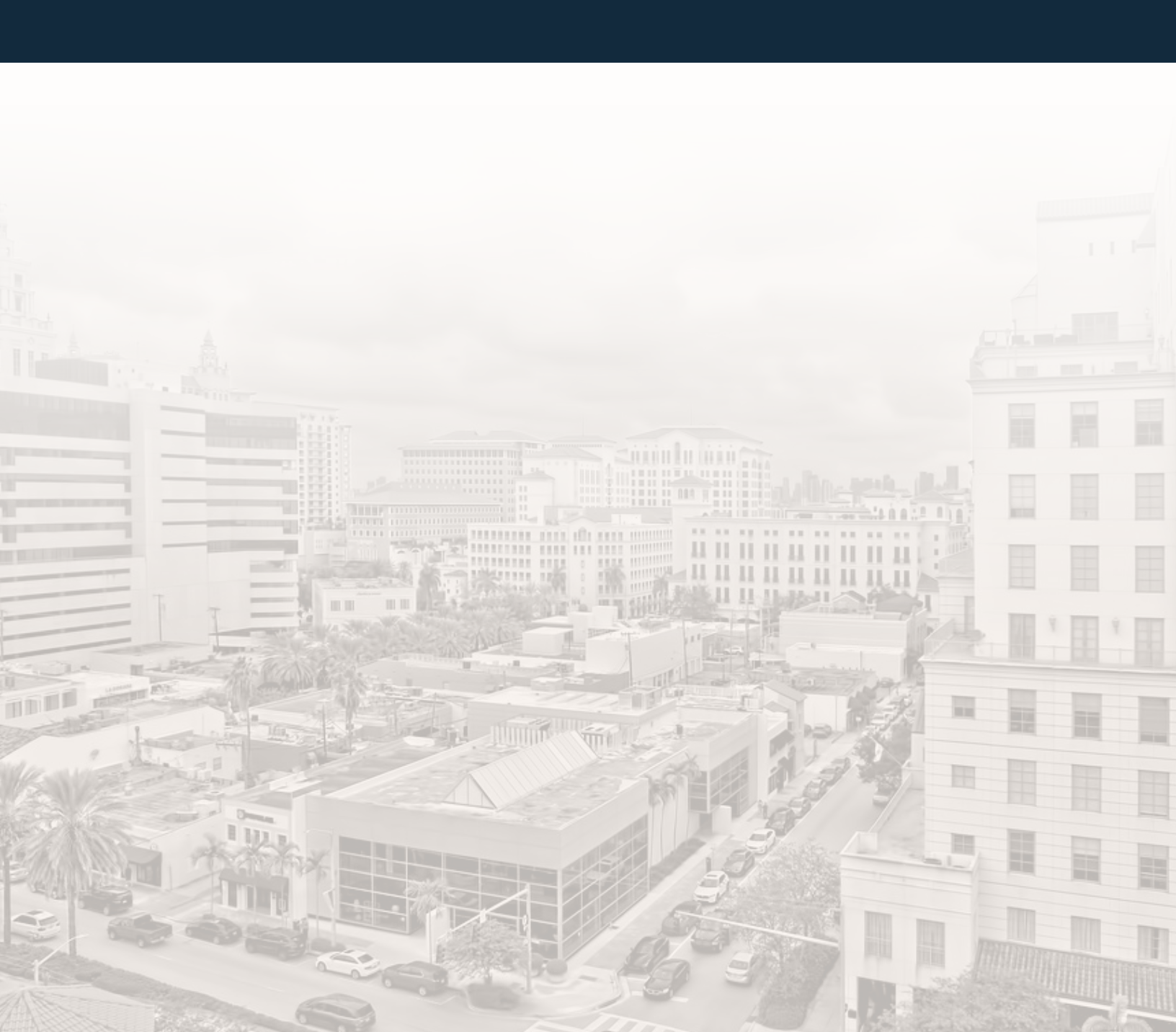
  
**ARDURRA**

## SECTION V: AGREEMENT COMMENTS

ARDURRA respectfully requests that Sections 5.1 to 5.3 of the Agreement be replaced with Sections 4.5 and 4.5.1 of the agreement dated September 25, 2019, between the City of Coral Gables and 300 Engineering Group, P.A.







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