

**HBC Engineering**

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Item #	Line Item	Notes	Unit Price	Qty/Unit	Attch. Docs	
12716-626--01-01	UPLOAD ATTACHMENTS HERE	<b>Supplier Product Code: 12716-626</b>	<b>First Offer -</b>	1 / each	<b>Y</b>	<b>Y</b>

Supplier Total **\$0.00**

**HBC Engineering**Item: **UPLOAD ATTACHMENTS HERE****Attachments**

12716-626 Riverwalk North Seawall.pdf





Upper Tampa Bay Trail Bridge Underpass &amp; Seawall



Saint Marks Commercial Dock &amp; Seawall



Upper Peace Legacy Trail Bridge &amp; Seawall



Bridge &amp; Boardwalk Approaches Over Gordon River

REQUEST FOR QUALIFICATIONS

# CONSULTANT SERVICES FOR RIVERWALK NORTH SEAWALL REPLACEMENT (P11722)

SOLICITATION 12716-626



CITY OF FORT LAUDERDALE



September 29, 2022

**Ms. Maureen Lewis, MBA, CPPB**

Senior Procurement Specialist

City of Fort Lauderdale, Procurement Services Division

100 N. Andrews Avenue, 6<sup>th</sup> Floor

Fort Lauderdale, FL 33301

**HBC Engineering Company**

8935 NW 35th Ln Suite 201,

Doral, FL 33172

(305) 232-7932

**RE: RFQ # 12716-626****CCNA – Consultant Services for Riverwalk North Seawall Replacement**

Dear Ms. Maureen Lewis and Selection Committee Members:

The **HBC Engineering Company (HBC)** is pleased to submit our proposal presenting our qualifications in response to The City of Fort Lauderdale **RFQ # 12716-626 “CCNA – Consultant Services for Riverwalk North Seawall Replacement”**. We, at HBC have acquired experience in seawall replacement projects of this type; and we feel confident that our team will be able to assist the City of Fort Lauderdale with a successful completion of this project.

HBC is a full-service multi-disciplined engineering firm founded in 2006 and headquartered in Doral with offices in Ft Lauderdale and Boca Raton. We provide engineering consulting services for transportation in general, including bridge and seawalls design, pipeline, and drainage infrastructure improvements, in addition to other types of project and construction management disciplines. Our staff has experience executing structural marine structures design, roadway design, traffic engineering studies, highway lighting, water/wastewater systems, project management, and construction engineering inspection. We continuously hone our skills while providing superior service. We seek innovative solutions that benefit our clients while our engineers stay abreast of developments and issues facing the City of Fort Lauderdale.

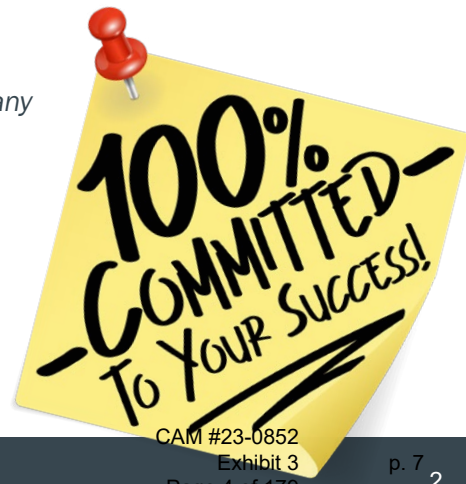
We offer a uniquely qualified team of professionals with proven expertise and extensive knowledge developed over decades to ensure project success from beginning to end. Our company has the foresight to tackle any situation that may arise. HBC possesses the right combination of skills that has enabled our team to continually succeed and most importantly improve with every issue we have come across. We can confidently provide the services needed to get the job done, through the quality and availability of our management team. We are familiar with all the county regulations, and we understand the scope of work at hand.

In summary, HBC Engineering Company is a homegrown and local team that is poised to successfully take on all projects within our technical capabilities, for the ever-growing needs of the City of Fort Lauderdale. For this seawall replacement project which includes the demolition of the existing catwalk replaced by a system of floating docks and concrete docks, and the addition of upgraded electrical systems and overall revamp of the colorful brick walkways of this area, HBC is eager to provide you with our expertise and professional services to take this project to its successful completion. We will thoroughly identify and resolve critical issues by finding reliable solutions while always providing a hands-on level of service. Our team's dedication to the success of this project will ensure that the job is on time, on budget, and with the highest quality of standards. We are grateful for the opportunities from the City of Fort Lauderdale and look forward to continuing our relationship.

Sincerely,



HBC Engineering Company  
**Adebayo Coker, PE,**  
President



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# SECTION 2

## EXECUTIVE SUMMARY



CITY OF FORT LAUDERDALE



New Orleans Hurricane Risk Reduction Project

### HBC ENGINEERING COMPANY (HBC)

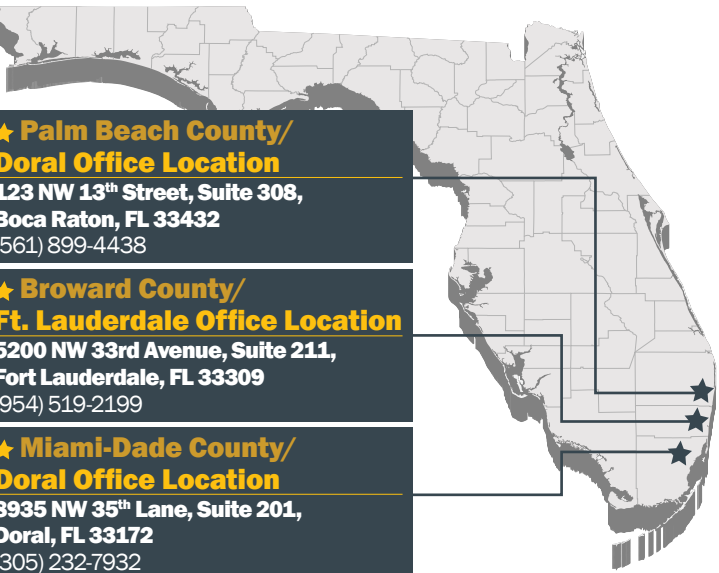


HBC is a Broward County certified County Business Enterprise (CBE) and a State of Florida certified Minority Business Enterprise (MBE) firm.



**HBC Engineering Company** is a full-service multidisciplinary engineering firm incorporated in Florida in 2006. HBC is a Broward County certified County Business Enterprise (CBE) and a State of Florida certified Minority Business Enterprise (MBE) firm.

### OFFICE LOCATIONS



★ <b>Palm Beach County/ Doral Office Location</b> 123 NW 13 <sup>th</sup> Street, Suite 308, Boca Raton, FL 33432 (561) 899-4438
★ <b>Broward County/ Ft. Lauderdale Office Location</b> 5200 NW 33 <sup>rd</sup> Avenue, Suite 211, Fort Lauderdale, FL 33309 (954) 519-2199
★ <b>Miami-Dade County/ Doral Office Location</b> 8935 NW 35 <sup>th</sup> Lane, Suite 201, Doral, FL 33172 (305) 232-7932

Although HBC's Broward County branch office located in Fort Lauderdale will be servicing this **City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Wall Seawall Replacement (P11722) Project**, all of HBC's offices, staff members, and resources will be available to the City of Fort Lauderdale for the effective and efficient execution of this Project.



## COMPANY BACKGROUND

During the past 16 years, HBC has established a long history of successfully delivering a wide variety of civil engineering projects on schedule and budget for various public and private sector clients throughout Miami-Dade, Broward, and Palm Beach Counties. In addition, HBC has developed a reputation for providing clients with innovative and cost-effective engineering design solutions for a diverse collection of projects throughout South Florida, including waterfront infrastructure projects. HBC has assembled a multidisciplinary Team of qualified and experienced professionals to provide the City of Fort Lauderdale with all the engineering services required to deliver this Riverwalk North Seawall Replacement Project on time and within budget. HBC will provide the professional civil, structural, and electrical engineering design services, as well as the utility coordination and bidding and post-design services required for the successful execution of this Project.

**Please see Section 3: Firm Qualifications and Experience for personnel qualifications and subconsultant qualifications.**

## DESIGN OF KEY ELEMENTS/ STRUCTURAL ENGINEERING



Arlington Park Bridge & Seawall Replacement

HBC will provide the design for a new seawall replacement consisting of sheet piling in front (riverside) of the existing concrete Riverwalk North Seawall, starting from the Andrews Avenue Bridge and continuing 500 feet west toward the Ferromex (FXE) train track; the demolition of the existing

concrete catwalk located in front (riverside) of the existing concrete Riverwalk North Seawall; the new docks attached to the new seawall; the design for the installation and attachment of new floating docks and amenities; the design for the relocation of existing utilities attached to the concrete catwalk; and the design for the replacement of utility stations located on the existing concrete catwalk. HBC's designs will consider sea wall ordinance, location of existing tiebacks, access to new floating docks, impacts to existing monument, and coordination with local stakeholders such as restaurants and apartment buildings.

## EXPERIENCE WITH SIMILAR PROJECTS



Belleair Floating Docks

Having recently worked on marine projects implementing floating platforms, HBC's Project Manager and Structural Engineer, Miguel Villegas, PE, expects the floating docks to be pile-guided floating platforms designed to be strong enough to allow for unexpected drastic tidal changes, as well as easy to maintain and replace. The proposed seawall will be designed to have adequate structural capacity, stability, and redundancy to sustain all potential forces that may be imposed on it. Other design parameters will consider corrosion, scour, and ship impact. It is highly recommended that the proposed seawall be laterally stabilized by methods other than Deadman anchors, since that option would notably increase construction cost and time, as well as create unnecessary, excessive demolition to adjacent property.

## ELECTRICAL ENGINEERING

HBC will also provide the electrical design for the replacement of various existing electrical shore-tie pedestals and pier



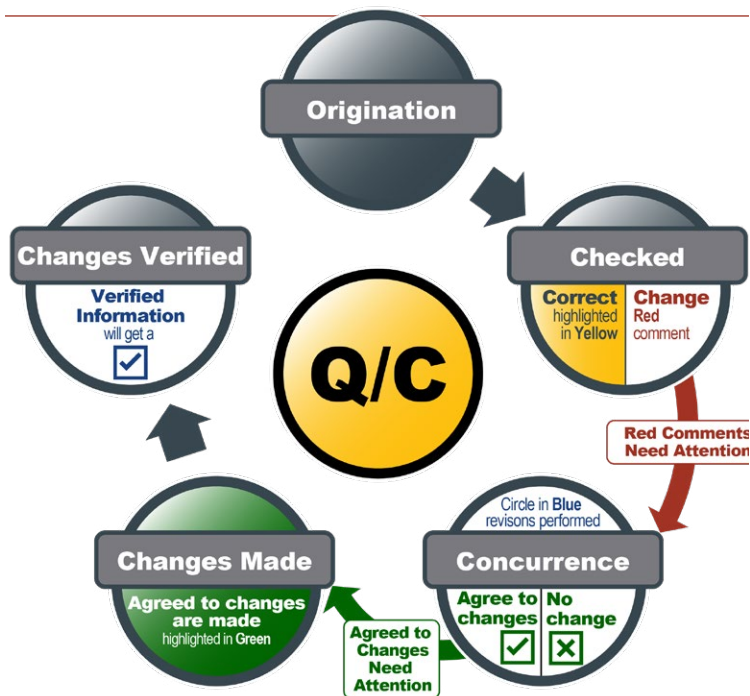
lighting fixtures. The pier lighting fixtures will be water/salt resistant and follow federal, state, and Authorities Having Jurisdiction (AHJs) to mitigate the impact to sea turtles. All electrical conduits will be Polyvinyl Chloride (PVC) and the cables will be rated for wet locations.

## STANDARDS CODES COORDINATION



HBC will be responsible for determining the standards the work will meet and obtain all required regulatory approvals. HBC's designs will include, but will not be limited to, the Plans, Specifications, & Estimates (PS&E), which will describe all systems, elements, details, components, materials, equipment, and any other information necessary for construction. HBC designs will also be accurate, coordinated between disciplines, adequate for construction, and in compliance and conformity with all applicable laws, codes, permits, and regulations.

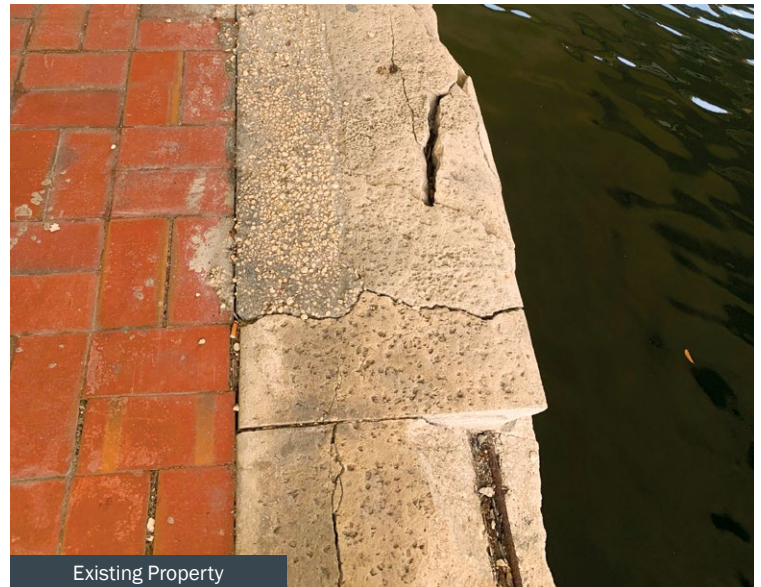
## QUALITY CONTROL/ QUALITY ASSURANCE (QA/QC)



HBC will be responsible for the Quality Control (QC) of its work and the work of its subconsultants, as well as the professional quality, technical accuracy, and coordination of all pre-design services, designs, drawings, specifications, and other services provided by the HBC Team. HBC will independently and continually QC its plans, specifications, reports, electronic files, progress payment applications, schedules, and all project deliverables required for this Project. HBC will provide the City of Fort Lauderdale with a marked-up set of plans and/or specifications showing its QC review with scheduled deliverables.

## STRUCTURAL ASSESSMENT AND REHAB

The HBC Team will perform evaluation, analysis, and recommendations or soil strengthening and remediation if required. The HBC Team will also conduct field inspections of deteriorated structure elements on-site and prepare designs and specifications for appropriate repairs and/or replacements.



Existing Property



Existing Property



# SECTION 3

## FIRM QUALIFICATIONS AND EXPERIENCE



CITY OF FORT LAUDERDALE



New Orleans Hurricane Risk Reduction Project

### QUALIFICATIONS OF THE PROJECT MANAGER, MIGUEL VILLEGAS, MS, PE



Saint Marks Concrete Dock & Seawall



**Miguel Villegas, MS, PE**, will serve the roles of *Project Manager* and *Structural Engineer* and will oversee all design subconsultants. Miguel earned his Bachelor of Science in Civil Engineering (BSCE) and Master of Science in Civil Engineering (MSCE) at the University of South Florida (USF). Miguel is a licensed

Professional Engineer (PE) in Alabama (# 29630) and Florida (# 68768), as well as with the National Council of Examiners for Engineering & Surveying (NCEES) (# 39125). Miguel has acquired over 25 years of diversified structural engineering experience working on numerous projects for various municipalities and the Florida Department of Transportation (FDOT) involving commercial/municipal ports, seawalls, fixed and pile-guided floating piers, connecting gangways, bridges over rivers and canals, trail/park pedestrian bridges over water, bridge underpasses, and boardwalks. Miguel successfully managed and demonstrated exemplary leadership and management skills on similar projects, which included serving as an Engineer of Record (EOR). His areas of expertise are the assessment, design, production, and management of all phases of structural/seawall/marine design projects, including the preparation of probable construction estimates and specification packages. He has managed and provided technical leadership on a number of public and private sector projects. He has taken numerous projects from the initial inspection/assessment phase all the way through design, post-design, and final Construction Engineering Inspection (CEI). He has been responsible for providing early and proactive coordination with clients, subconsultants, permitting agencies, and diverse project disciplines, as well as the implementation of effective Quality Assurance/Quality Control (QA/QC) plans and the supervision



of project personnel on major projects. He has led teams that offered redundancy in every staff category to ensure that adequate staff resources were available to the client, identified goals, and approved scope, budget, and schedule. Miguel possesses the design expertise needed to produce innovative, feasible, and cost-effective concepts and recommendations. Throughout his years of experience, Miguel has acquired familiarity with City of Fort Lauderdale policies and procedures that enable him to promptly respond to City's needs and exceed its expectations.

### **EXPERIENCE OF THE PROJECT MANAGER, MIGUEL VILLEGAS, MS, PE**

#### **City of Delray Beach, Atlantic Dunes Park Seawalls Replacement | Palm Beach County, FL (2019-2021)**

*Structural Engineer/EOR* for this project consisting of Atlantic Dunes Park improvements. Responsibilities included analysis and design of cantilevered retaining walls following FDOT standards on precast sheeting concrete panels. This project is currently under construction.

#### **Hillsborough County, Gran Kaymen Way Seawall Replacement | (September 2022) Structural Engineer/EOR**

for this seawall replacement design project. A soldier pile and panel system were designed to replace the existing failing seawall retaining the lift station for this community in Apollo Beach, Florida. Directed by Hillsborough County, Miguel assessed the condition of the existing seawall; and, based on his findings, recommended a seawall replacement. This project has been recently constructed.



Hillsborough County Seawall Replacement

#### **City of Delray Beach, Island Drive Bridge Rehabilitation and Seawall Replacement | Palm Beach County, FL (2019-2021)**

*Structural Engineer/EOR* for the rehabilitation of the Island Drive Bridge, which is approximately 70 feet long by 32 feet wide and spans over a waterway canal.

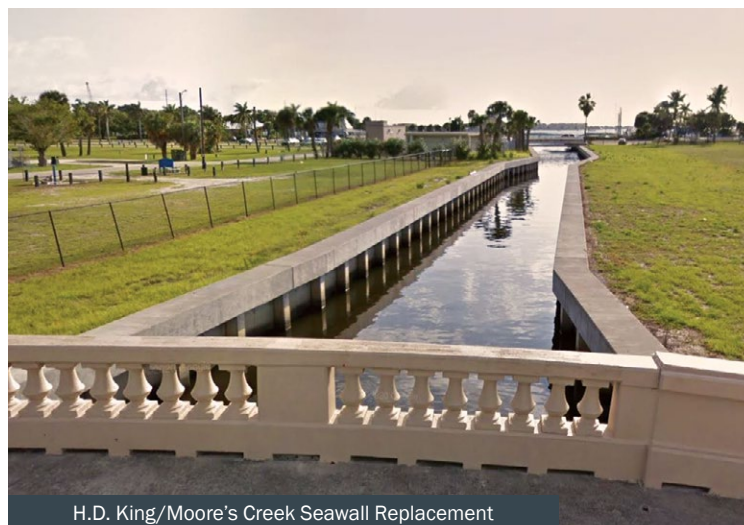
Responsibilities included a bridge condition assessment report, repair contract plans, and analysis and design of a cantilevered retaining wall to replace the existing retaining wall. This project is currently under construction.



Delray Beach, Island Drive Bridge Rehabilitation and Seawall Replacement

#### **H.D. King Seawall Replacement | Fort Pierce, FL (2016-2017)**

*Senior Structural Engineer/EOR* responsible for the design of two 500 linear feet of concrete soldier panel seawall systems that replaced the existing seawalls along both sides of Moore's Creek.



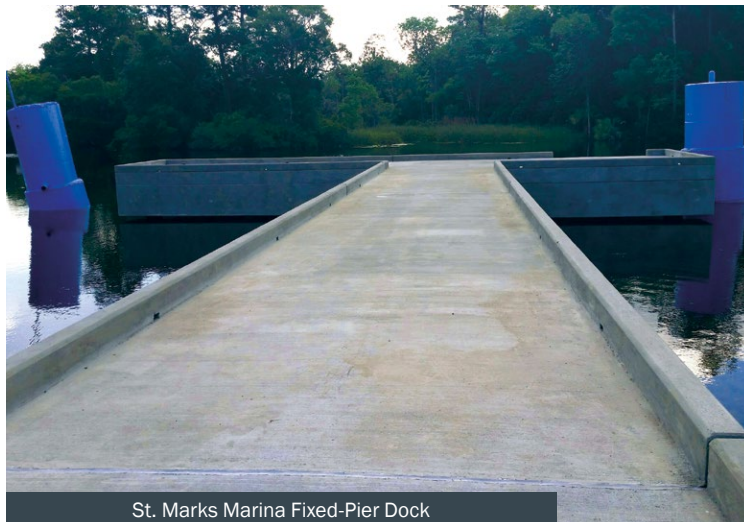
H.D. King/Moore's Creek Seawall Replacement

#### **Gordon River Trail Bridge and Boardwalks | City of Naples, FL (2015-2018)**

*Senior Structural Engineer/EOR* for a unique trail bridge designed with an IPE wood deck attached to American Association of State Highway and Transportation Officials (AASHTO) type-II simply supported prestressed beams for a total of four spans over the Gordon River. Special connections were designed to connect the wood deck to the prestressed concrete beams. Other features included the design of a Look-out Pavilion on Pier 3. Boardwalk approaches to the main bridge were also designed using IPE wood for the deck and railing and supported on southern pine piles.



**St. Marks Marina Fixed-Pier Dock | City St. Marks, FL (2015-2016)** EOR for a successfully built commercial concrete pier dock. The pier was designed with a concrete deck on steel pipe piles for HL-93 AASHTO Vehicular Live Loading. This project also involved over 200 linear feet of anchored steel sheet-pile design.



St. Marks Marina Fixed-Pier Dock

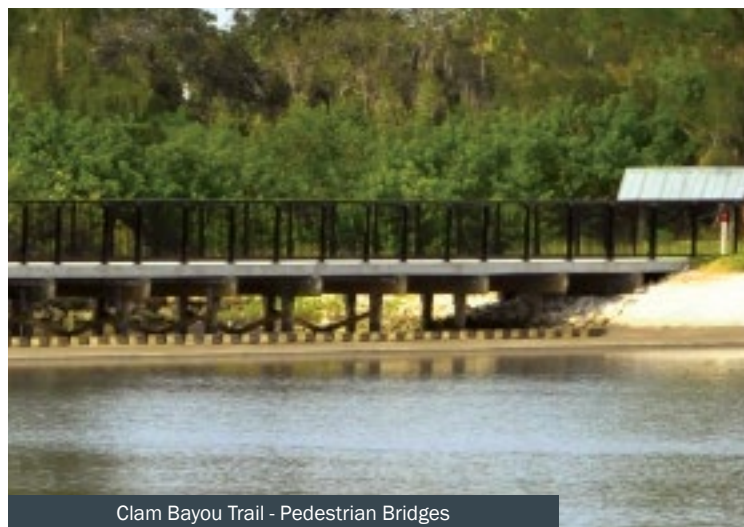
**Arlington Park Pedestrian Bridge Replacement and Park Improvements | City of Sarasota, FL (2015)** Senior Structural Engineer/EOR responsible for a bridge replacement and a variety of park improvement design tasks, including spread footing design and coordination with bridge fabricator on layout, geometry, and loads. Other design tasks included the realignment of bridge approaches, new scour protection and analysis, and the design of a vinyl sheeting retaining wall.



Arlington Park Pedestrian Bridge Replacement and Park

**Upper Tampa Bay Trail Underpass Structure at Sheldon Road | FDOT District 7 / Hillsborough County, FL (2013-2014)** EOR responsible for the design of an underpass cantilever retaining wall structure integrally attached to a sheet pile wall that ran parallel to Channel "A."

**Clam Bayou Trail - Pedestrian Bridges | FDOT District 7 / City of Saint Petersburg, FL (2012-2013)** Structural Engineer/EOR responsible for the design of six elevated structures for a total of 1,500 linear feet crossing over channels, existing gabion walls, and mangroves. The foundation consisted of 10-inch butt diameter timber piles, two piles per bent, and spaced at every ten feet along the trail. The superstructure consisted of a five-span continuous concrete slab. This trail bridge was designed for an H-10 AASHTO Emergency Vehicle Live Load.



Clam Bayou Trail - Pedestrian Bridges

**Coffee Pot Bayou & Vinoy Park Seawalls | City of St. Petersburg, FL (1997-1998)** Structural Engineer responsible for the restoration of existing seawalls and the layout and design of new anchored seawalls using FDOT standard precast concrete panels.

**SR-739 (Metro Parkway) Bridge over North Colonial Waterway, Seminole Gulf Railroad, Ten Mile Canal, and Palm Avenue, FL | FDOT District 1 / Fort Myers, FL (2008-2012)** Structural Engineer responsible for major design upgrades, including Bridge Development Report revisions and updates to latest FDOT standards. Bridge Hydraulics Report was also revised and resubmitted. The project involved a six-span prestressed girder bridge approximately 794 feet long and 121.1 feet wide spanning over a Chessie Seaboard Express (CSX) railroad, two bodies of water, and Palm Avenue that required reanalysis of the superstructure, including the deck, AASHTO prestressed concrete beams, and the multi-column concrete piers. The capacity of deep foundations, consisting of 24-inch square precast prestressed concrete piles, was reassessed, and confirmed. A variety of miscellaneous structures, such as culverts, mast arms, multi-post ground signs, Mechanically Stabilized Earth (MSE) walls, and noise walls were reanalyzed and designed.

**US-19 (SR-55) Bridges over SR-60 and Seville Blvd.,  
FDOT Pinellas County, Florida: SR-55 (US-19) from  
South of Seville Blvd. to North of SR-60 | Pinellas  
County, FL, FDOT District 7, (2005-2007)**

This project consisted of two steel box girder bridges. The single span structure over Seville Blvd. was 217 feet long and had a radius of 11,709 feet. The structure over SR-60 had spans of 173.5', 240', and 173.5'. The first two spans had a straight alignment, and the third span had a radius of 11,709 feet. Both structures involved phased construction for effective Maintenance of Traffic (MOT). As part of the structures design team, responsibility included deck design, steel box girder design of both bridges using MDX software, multi-column hammerhead piers over SR-60 using RC-Pier and the end bents for both structures. Other responsibilities included QA/QC of field splices, end diaphragms, lateral bracing, cross-frames, superstructure connections, and bearings. This project also required analysis and design of cantilever sign structures and span trusses.

**I-275 & CR-296 Interchange-Phase III | Clearwater, FL,  
FDOT District 7, (2005-2006)**

Phase III was the addition of Ramps F & G (third and fourth levels) to existing interchange in a constricted right-of-way corridor with MSE walls at the end bents. Both ramps consisted of an approximately 1,500' high-level flyover and a 1,500' long viaduct. The flyover portions consisted of a three-span continuous structure using curved welded plate girder units with spans ranging from 123' to 244'. A viaduct portion consisted of 145' spans using 78" Florida Bulb Tees (FBTs) and a 200' welded plate girder span. Responsibilities included the write-up of the bridge development report, considering various substructure and superstructure arrangements. Several bridge configurations were analyzed, including plate girders, prestressed beams, steel boxes, multi-column piers, hammerheads, and straddle bents. Cost estimates of alternatives were prepared and summarized.

### QUALIFICATIONS OF KEY PROJECT TEAM MEMBERS

#### HBC ENGINEERING COMPANY (HBC)



During the past 16 years, HBC has established a long history of successfully delivering a wide variety of civil engineering projects on schedule and budget for various public and private sector clients throughout Miami-Dade, Broward, and Palm Beach Counties. In addition, HBC has developed a reputation for providing clients with innovative and cost-effective engineering design solutions for a diverse collection of projects throughout South Florida, including waterfront infrastructure projects. HBC has strategically assembled a multidisciplinary Team of highly qualified and experienced professionals to provide the City of Fort Lauderdale with all the engineering services required to successfully deliver this Riverwalk North Seawall Replacement Project on time and within budget. HBC is a State of Florida certified Minority Business Enterprise (MBE) and will provide the professional civil, structural, and electrical engineering design services, as well as the utility coordination and bidding and post-design services required for the successful execution of this Project.

#### HBC'S PERSONNEL

##### Adebayo Coker, PE: Principal-in-Charge

**29**  
Yrs of Exp works out of HBC's main office in Doral, and will serve the role of Principal-in-Charge.

##### Miguel Villegas, MS, PE: Project Manager & Structural Engineer

**25**  
Yrs of Exp works out of HBC's branch office in Fort Lauderdale

##### Edgar Diaz, MS, PE: Constructability Reviewer

**36**  
Yrs of Exp works out of HBC's main office in Doral

##### Teodoro Tefel, PE: Quality Assurance/ Quality Control (QA/QC) Manager

**33**  
Yrs of Exp works out of HBC's main office in Doral

##### Andres Cardona, PE: Civil Engineer

**26**  
Yrs of Exp works out of HBC's branch office in Fort Lauderdale

##### Claudia Bustamante, MS, PE: Civil Engineer

**17**  
Yrs of Exp works out of HBC's branch office in Fort Lauderdale



**HBC'S PERSONNEL****Jose Lopez, PE:** *Civil Engineer***17****Yrs of Exp**

works out of HBC's main office in Doral

**Gonzalo Barrera, PE:** *Civil Engineer***4****Yrs of Exp**

works out of HBC's main office in Doral

**Roberto Rubio, MS, PE:** *Structural Engineer***32****Yrs of Exp**

works out of HBC's branch office in Fort Lauderdale

**Willy Giron Matute, PhD, PE, LEED AP BD+C:**  
*Structural Engineer***10****Yrs of Exp**

works out of HBC's branch office in Fort Lauderdale

**Maikel Fiallo, PE:** *Electrical Engineer***21****Yrs of Exp**

works out of HBC's main office in Doral

**Orlando Penate, PE:** *Electrical Engineer***15****Yrs of Exp**

works out of HBC's main office in Doral

**Sonny Abia, PhD, PE:** *Utility Coordinator***33****Yrs of Exp**

works out of HBC's main office in Doral

**David Coker, EI:** *Electrical Engineer***5****Yrs of Exp**

works out of HBC's main office in Doral

**TIERRA SOUTH FLORIDA, INC. (TSF)**

**TSF is a State of Florida certified  
Minority Business Enterprise (MBE).**

**Tierra South Florida, Inc. will provide  
the City with the Geotechnical Testing and  
Report services required for this Project.**

HBC has selected **Tierra South Florida, Inc.** to provide the City of Fort Lauderdale with the Geotechnical Testing and Report services required for this Project. TSF is a State of Florida certified Minority Business Enterprise (MBE) and long-time HBC partner that has consistently provided effective and efficient geotechnical services on numerous and diverse projects. TSF is a full-service consulting

geotechnical engineering, construction materials testing, and inspections firm with the capability to provide test borings, engineering analyses and reports, AutoCAD and MicroStation plan sheets, laboratory soils testing, and Construction Engineering Inspection (CEI) services. **TSF's President, Raj Krishnasamy, MS, PE,** has over 35 years of experience, works out of TSF's main office in West Palm Beach, and will serve the role of *Geotechnical Engineer*. **Kumar Vedula, PE,** has over 26 years of experience, works out of TSF's main office in West Palm Beach, and will serve the role of *Geotechnical Engineer*.

**CHEN MOORE AND ASSOCIATES, INC. (CMA)**

**Chen Moore and Associates, Inc. will provide  
the City with the Environmental Permitting, Natural  
Resources/Species Evaluation, and Landscape  
Architecture services required for this Project.**

HBC has selected **Chen Moore and Associates, Inc.** to provide the City of Fort Lauderdale with the Environmental Permitting, Natural Resources/Species Evaluation, and Landscape Architecture services required for this Project. CMA is a multidisciplinary firm with several branch offices throughout Florida and a main office in Fort Lauderdale that specializes in civil engineering, water resources, water and sewer, landscape architecture, irrigation, electrical engineering, transportation, planning, environmental engineering, and construction administrative services. **Brian Voelker, MS, SPWS, CA, CLI,** has over 25 years of experience, works out of CMA's main office in Fort Lauderdale, and will provide the *Environmental Permitting services*. **Daniel E. Davila, PE,** has over 23 years of experience, works out of CMA's main office in Fort Lauderdale, and will provide the *Environmental Permitting services*. **Cristobal Betancourt, PLA, AICP,** has over 27 years of experience, works out of CMA's main office in Fort Lauderdale, and will serve the role of *Landscape Architect*. **Eric Harrison, PLA,** has over 19 years of experience, works out of CMA's main office in Fort Lauderdale, and will serve the role of *Landscape Architect*.

## MILIAN, SWAIN & ASSOCIATES, INC. (MSA)



**MSA is a State of Florida certified Minority Business Enterprise (MBE).**

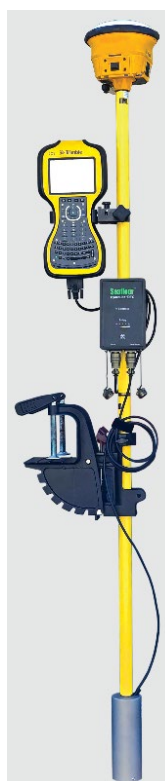
**Milian, Swain & Associates, Inc. will provide the City with the Sea Level Rise expertise required for this Project.**

HBC has selected **Milian, Swain & Associates, Inc.** to provide the City of Fort Lauderdale with the Sea Level Rise expertise required for this Project. MSA is a State of Florida certified Minority Business Enterprise (MBE) with a diverse workforce and a proven commitment to affirmative action. MSA is a multidisciplinary firm established in Miami-Dade County in 1989 that specializes in civil and environmental engineering. MSA's principals and staff recognize the threat Sea Level Rise poses to low-lying coastal areas and have been working towards remediation diligently. MSA's President, **Arsenio Milian, MS, PE**, has over 50 years of experience as a Civil Engineer, works out of MSA's main office in Miami, and will serve the role of expert Sea Level Rise consultant. Arsenio is a former board member of the South Florida Water Management District (SFWMD) and was an appointed participant in the Sea Level Rise Task Force of Miami-Dade County. *Arsenio will provide his expertise in selecting effective adaptation measures to mitigate the hazards and risks posed by Sea Level Rise and progressive flooding on low-lying coastal areas like the City of Fort Lauderdale.* **Michael Landrum, REM**, has over 39 years of experience as an Environmental Scientist, works out of MSA's main office in Miami, and will serve the role of Sea Level Rise consultant. **Gabriel Milian, MS, PE, ENV SP, LEED**, Green Associate has over 20 years of experience as a Civil and Environmental Engineer, works out of MSA's main office in Miami, and will serve the role of Sea Level Rise consultant.

## GPI GEOSPATIAL, INC. (GPI)



**GPI Geospatial, Inc. will provide the City with the Topographic and Hydrographic Surveying services required for this Project.**



HBC has selected **GPI Geospatial, Inc. (GPI)** to provide the City of Fort Lauderdale with the Topographic and Hydrographic Surveying services required for this Project. GPI is a long-time HBC partner with numerous offices throughout the United States of America that has established itself as a premier provider of geospatial solutions for over 47 years. GPI's mission is to map the foundation for infrastructure improvements that enhance the connectivity between people and communities. It is GPI's vision to be the most trusted provider of precision mapping, imagery, Light Detection and Ranging (LiDAR), and surveying services within the transportation, planning, design, construction, and government communities. **Julio Delgado, PSM**, has over 25 years of experience, works out of GPI's branch office in Doral, and will serve the role of Professional Surveyor and Mapper (PSM). **Frank Paruas, PSM**, has over 22 years of experience, works out of GPI's branch office in Doral, and will serve the role of Professional Surveyor and Mapper (PSM).

**For more information on the qualifications of our team such as our resumes and similar projects, please see Section 9: Required Forms & Other Documents**





SR-5/US-1 Overseas Hwy. from N. Dolphin Ave. to Kyle Ave.

## COMMITMENT TO CONSERVATION, SUSTAINABILITY & RESILIENCY

### OUR REDUCE-REUSE-RECYCLE COMMITMENT

HBC is committed to sustainable and environmentally sensitive programs and demonstrates this in its overall approach to implementing practices that foster efficiency and energy savings for its clients. HBC's corporate culture and policies promote Reduce, Reuse, and Recycle. Since its establishment in 2006, HBC has embraced the stewardship of maintaining environmentally friendly policies and activities in how it develops its staff, performs its services, and relates to its clients. HBC's commitment to environmental responsibility is fundamental to its corporate leadership, and this dedication transcends to all staff and offices. HBC has maintained a commitment to perform its services in a manner that minimizes negative impacts to the environment and promotes positive contributions for sustainability. HBC invests the effort of identifying opportunities to ensure that its designs are efficient, low-maintenance, economical, and most importantly, environmentally conscious.

### OUR METHODS

Some of HBC's methods include:

- Limiting impacts and disturbances to the project construction site and adjacent areas.
- Recommending connections to water reuse pipelines for irrigation, where available.
- Incorporating devices in stormwater management infrastructure, such as hydrodynamic separation devices, which have proven to be a major success factor for water quality improvements.
- Directing drainage of stormwater from green areas to underground cisterns to be used for irrigation needs.

- Utilizing sustainable construction materials.
- Employing smart water management solutions.
- Selecting low-maintenance grass and vegetation for rooftop landscaping, so that it can be sustained solely by natural rainwater.

### OUR INNOVATION TO RESILIENCY

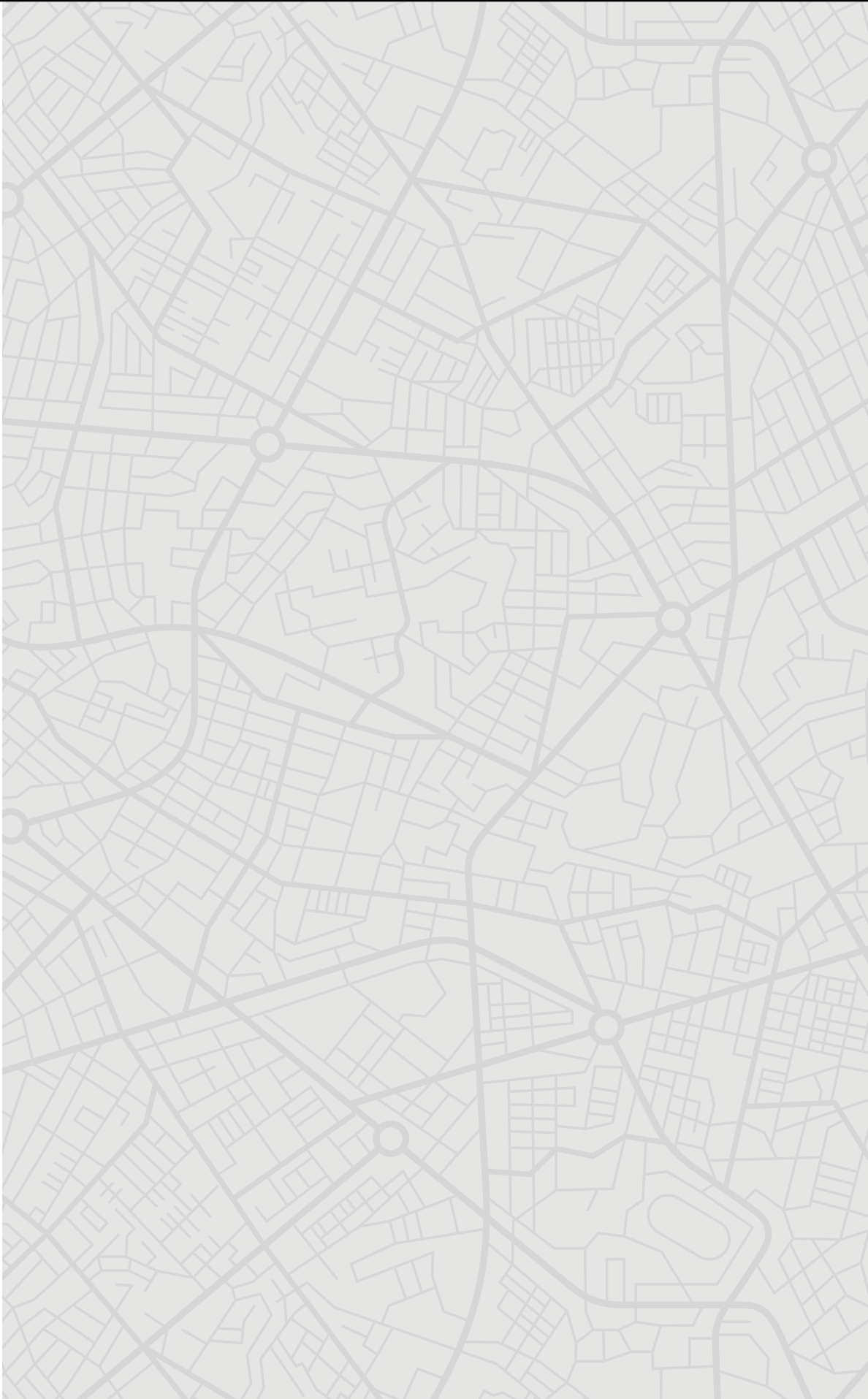
As a dedicated steward of the environment, HBC maintains a commitment to design and performs its services in a manner that minimizes negative impacts to the environment and promotes positive contributions for sustainability. HBC also acknowledges the importance of designing and implementing innovative and effective resiliency measures on civil engineering projects to combat the many negative impacts caused by aging water and wastewater infrastructure, insufficient stormwater drainage, and King Tides and sea level rise.



Upper Peace Legacy Trail environmentally sensitive design/construction



**RESILIENCY IS THE KEY IN  
BUILDING FOR THE FUTURE.**



CITY OF FORT LAUDERDALE

9/29/2023

BidSync

# ARCHITECT-ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

Consultant Services for Riverwalk North Seawall Replacement, Fort Lauderdale, FL

2. PUBLIC NOTICE DATE

08-11-2022

3. SOLICITATION OR PROJECT NUMBER

City of Fort Lauderdale RFQ # 12716-626

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Adebayo Coker, PE, President

5. NAME OF FIRM

HBC Engineering Company

6. TELEPHONE NUMBER

(305) 232-7932

7. FAX NUMBER

(305) 232-7933

8. E-MAIL ADDRESS

acoker@hbcengineeringco.com

### C. PROPOSED TEAM

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

	(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V	PARTNER	SUBCON-TRACTOR			
a.	<input checked="" type="checkbox"/>				HBC Engineering Company <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	5200 NW 33rd Avenue, Suite 211 Fort Lauderdale, FL 33309	Civil, Structural, and Electrical Engineering Services, Utility Coordination, Bidding Services, and Post-Design Services
b.				<input checked="" type="checkbox"/>	Chen Moore and Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	500 West Cypress Creek Road, Suite 630, Fort Lauderdale, FL 33309	Environmental Permitting, Natural Resources/Species Evaluation, and Landscape Architecture Services
c.				<input checked="" type="checkbox"/>	GPI Geospatial, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	8935 NW 35th Lane, Suite 100 Doral, FL 33172	Topographic and Hydrographic Surveying Services
d.				<input checked="" type="checkbox"/>	Tierra South Florida, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411	Geotechnical Testing and Report Services
e.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ (Attached)

AUTHORIZED FOR LOCAL REPRODUCTION

STANDARD FORM 330 (REV. 7/2021)





## State of Florida Department of State

I certify from the records of this office that HBC ENGINEERING COMPANY is a corporation organized under the laws of the State of Florida, filed on June 15, 2006.

The document number of this corporation is P06000082280.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 4, 2022, 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 Fourth day of January, 2022*



*Jonathan R. Satter*  
Secretary of State

Tracking Number: 1832685688CC

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

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



OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

**CERTIFIED**

### THIS CERTIFICATE IS AWARDED TO HBC ENGINEERING COMPANY

AS SET FORTH IN THE BROWARD COUNTY BUSINESS OPPORTUNITY ACT OF 2012, THE CERTIFICATION REQUIREMENTS HAVE BEEN MET FOR:

**County Business Enterprise (CBE)**


SANDY-MICHAEL MCDONALD  
Digitally signed by SANDY-MICHAEL MCDONALD  
Date: 2022.02.07 18:11:43 -0500

AUTHORIZED REPRESENTATIVE

**Anniversary Date: February 7th**

THE OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT MUST BE NOTIFIED WITHIN 30 DAYS OF ANY MATERIAL CHANGES IN THE BUSINESS WHICH MAY AFFECT OWNERSHIP AND CONTROL. FAILURE TO DO SO MAY RESULT IN THE REVOCATION OF THIS CERTIFICATE AND/OR IMPOSITION OF OTHER SANCTIONS.  
A SERVICE OF THE BROWARD COUNTY BOARD OF COUNTY COMMISSIONERS  
BROWARD.ORG/SMALLBUSINESS

GOVERNMENTAL CENTER ANNEX 115 S. ANDREWS AVENUE, ROOM A680 FORT LAUDERDALE, FL 33301  
TEL: 954-357-6400 • FAX: 954-357-5674 • TTY: 954-357-5664



CITY OF FORT LAUDERDALE BUSINESS TAX YEAR 2021-2022

Business Tax Division  
700 NW 19TH AVE. | FORT LAUDERDALE, FL 33311 | (954) 828 - 5195

Business ID: BL-1803157 Business Name: COKER,ADEBAYO

Business Address: 5200 NW 33 AVE #211

COKER,ADEBAYO  
8935 NW 35 LN # 201  
DORAL FL 33172

**TAX CATEGORIES**  
408800 ENGINEER

Contact: COKER,ADEBAYO  
Business Email: Acoker@Hbcengineeringco.com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email [businesstax@fortlauderdale.gov](mailto:businesstax@fortlauderdale.gov) and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to [businesstax@fortlauderdale.gov](mailto:businesstax@fortlauderdale.gov) and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.  
Fort Lauderdale, FL 33311  
TEL 954 828 5195  
WWW.FORTLAUDERDALE.GOV

## State of Florida Minority Business Certification

### HBC ENGINEERING COMPANY

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
01/19/2021 to 01/19/2023

*Jonathan R. Satter*  
Jonathan R. Satter, Secretary  
Florida Department of Management Services



Office of Supplier Diversity  
4050 Esplanade Way, Suite 380  
Tallahassee, FL 32399  
850-487-0955  
www.dms.myflorida.com/osd



# Florida Department of Transportation

RON DESANTIS  
GOVERNOR

JARED W. PERDUE, P.E.  
SECRETARY

June 7, 2022

Adebayo Coker, President  
HBC ENGINEERING COMPANY  
8935 NW 35<sup>th</sup> Lane, Suite 201  
Doral, Florida 33172

Dear Mr. Coker:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

**Group 3 - Highway Design - Roadway**

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 3.3 - Controlled Access Highway Design

**Group 4 - Highway Design - Bridges**

- 4.1.1 - Miscellaneous Structures

**Group 6 - Traffic Engineering and Operations Studies**

- 6.1 - Traffic Engineering Studies
- 6.2 - Traffic Signal Timing
- 6.3.1 - Intelligent Transportation Systems Analysis and Design
- 6.3.2 - Intelligent Transportation Systems Implementation
- 6.3.3 - Intelligent Transportation Traffic Engineering Systems Communications
- 6.3.4 - Intelligent Transportation Systems Software Development

**Group 7 - Traffic Operations Design**

- 7.1 - Signing, Pavement Marking and Channelization
- 7.2 - Lighting
- 7.3 - Signalization

**Group 10 - Construction Engineering Inspection**

- 10.1 - Roadway Construction Engineering Inspection

1

**Group 13 - Planning**

- 13.3 - Policy Planning
- 13.4 - Systems Planning
- 13.5 - Subarea/Corridor Planning
- 13.6 - Land Planning/Engineering
- 13.7 - Transportation Statistics

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2023, for contracting purposes.

**Approved Rates**

Home/ Branch Overhead	Field Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense	Field Direct Expense
250.95% <sup>A</sup>	194.40% <sup>A</sup>	0.091%	Reimbursed	No	0.00%	1.69% <sup>*</sup>

<sup>\*</sup>Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

<sup>A</sup>For multi-year contracts, DOT has adjusted the overhead rates to mitigate the adverse impacts of Payroll Protection Program loan forgiveness. For information on the adjusted overhead rates, contact the district Procurement Office.

**Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.**

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell  
Professional Services  
Qualification Administrator

2

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



Department of Business  
& Professional Regulation

[HOME](#) [CONTACT US](#) [MY ACCOUNT](#)

### ONLINE SERVICES

- [Apply for a License](#)
- [Verify a Licensee](#)
- [View Food & Lodging Inspections](#)
- [File a Complaint](#)
- [Continuing Education Course Search](#)
- [View Application Status](#)
- [Find Exam Information](#)
- [Unlicensed Activity Search](#)
- [AB&T Delinquent Invoice & Activity List Search](#)

### LICENSEE DETAILS

4:51:59 PM 3/31/2022

#### Licensee Information

Name: **HBC ENGINEERING COMPANY (Primary Name)**  
Main Address: **8935 NW 35TH LANE  
SUITE 201  
DORAL Florida 33172**  
County: **DADE**  
License Mailing: **18842 SW 74TH COURT  
CUTLER BAY FL 33157**  
County: **DADE**

#### License Information

License Type: **Registry**  
Rank: **Registry**  
License Number: **27160**  
Status: **Current**  
License Date: **09/15/2006**  
Expires:

Special Qualifications: **Qualification Effective**

#### Alternate Names

[View Related License Information](#)  
[View License Complaint](#)

### BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000  
VALID OCTOBER 1, 2021 THROUGH SEPTEMBER 30, 2022

DBA: **HBC ENGINEERING COMPANY** Receipt #: **315-241832**  
Business Name: **ENGINEER (ENGINEERING FIRM)**  
Owner Name: **HBC ENGINEERING COMPANY** Business Opened: **06/09/2011**  
Business Location: **5200 NW 33 AVE STE 211** State/County/Cert/Reg: **27160**  
PT LAUDERDALE Exemption Code:  
Business Phone: **305-232-7932**

Rooms	Seats	Employees	Machines	Professionals		
		5				
For Vending Business Only						
Number of Machines:			Vending Type:			
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

**THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS**

#### THIS BECOMES A TAX RECEIPT

#### WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:  
HBC ENGINEERING COMPANY  
8935 NW 35 LN STE 201  
MIAMI, FL 33172

Receipt #: **315-241832**  
Paid 08/11/2021 30.00

**2021 - 2022**

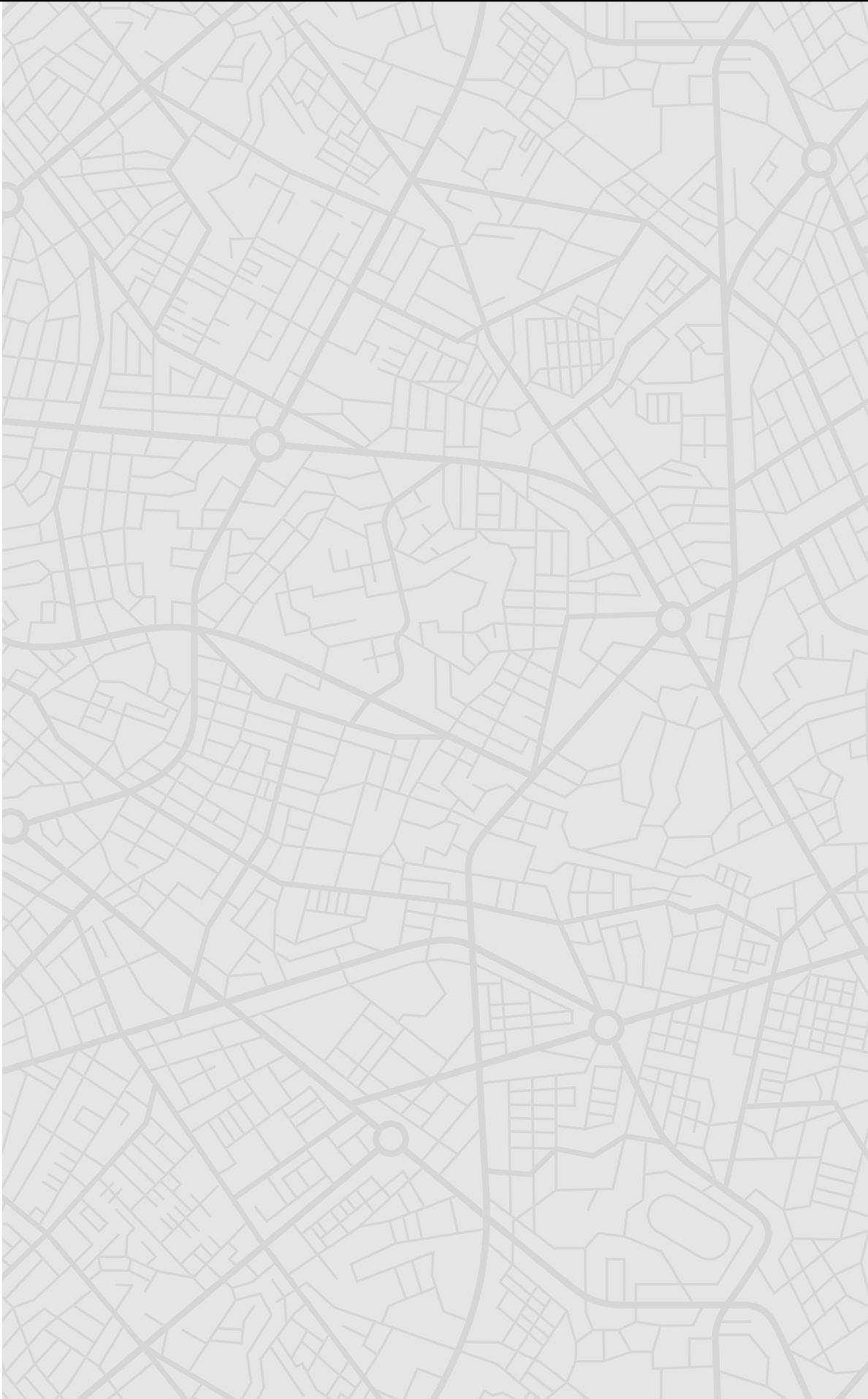
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30.00	0.00	0.00	0.00	0.00	0.00	30.00

Receipt #: **315-241832**  
Paid 08/11/2021 30.00



CITY OF FORT LAUDERDALE

**ARCHITECT – ENGINEER QUALIFICATIONS****PART I – CONTRACT SPECIFIC QUALIFICATIONS****A. CONTRACT INFORMATION**1. TITLE AND LOCATION *(City and State)*

CONSULTANT SERVICES FOR RIVERWALK NORTH SEAWALL REPLACEMENT

2. PUBLIC NOTICE DATE

3. SOLICITATION OR PROJECT NUMBER

RFQ # 12716-626

**B. ARCHITECT - ENGINEER POINT OF CONTACT**

4. NAME AND TITLE

Daniel Davila, P.E., Director of Water and Sewer-Principal Engineer

5. NAME OF FIRM

Chen Moore and Associates, Inc.

6. TELEPHONE NUMBER

(954) 730-0707 x1085

7. FAX NUMBER

(954) 730-2030

8. E-MAIL ADDRESS

ddavila@chenmoore.com

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.			X	Chen Moore and Associates, Inc.  <input type="checkbox"/> CHECK IF BRANCH OFFICE	500 West Cypress Creek Road Suite 630 Fort Lauderdale, FL 33309	Civil Engineering Landscape Architecture Environmental Sciences
b.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
g.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

1. SOLICITATION NUMBER (If any)  
RFQ # 12716-626

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

<b>9. EMPLOYEES BY DISCIPLINE</b>			
a. Function Code	b. Discipline	c. No. of Employees (1) FIRM    (2) BRANCH†	
02	Administrative	14	8
08	CADD Technician	10	3
12	Civil Engineer	36	16
15	Construction Inspector	5	4
16	Construction Manager	2	1
39	Landscape Architect	11	0
47	Planners (our planners are also registered landscape architects)	2	0
21	Electrical Engineer	15	1
60	Transportation Engineer	6	0
	Other Employees	101	33


  

<b>10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS</b>		
a. Profile Code	b. Experience	c. Revenue Index Number <i>(see below)</i>
C10	Commercial Building; (low rise); Shopping	1
C15	Construction Management	4
C18	Cost Estimating; Cost Engineering and	2
E02	Education Facilities; Classrooms	3
E09	Environmental Impact Studies,	1
G04	GIS development, analysis, data	2
H07	Highways; Streets; Airfield; Parking	3
L03	Landscape Architecture	4
P05	Planning (Community, Regional)	3
P06	Planning (Site, Installation)	4
P13	Public Safety Facilities	5
R04	Recreation Facilities (Parks, etc.)	3
R06	Rehab. (Buildings, Structures)	1
R11	Rivers Canals; Waterways; Flood Control	3
S04	Sewage Collection & Treatment	4
S11	Sustainable Design	2
S13	Stormwater Handling & Facilities	5
T02	Testing & Inspection Services	4
T03	Traffic & Transportation	4
V01	Value Analysis; Life-Cycle Costing	1
W03	Water Supply, Treatment, Distrib.	5



<b>11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS</b> <i>(Insert revenue index number shown at right)</i>		<b>PROFESSIONAL SERVICES REVENUE INDEX NUMBER</b>	
a. Federal Work	2	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	8	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

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

a. SIGNATURE	b. DATE
	9/9/2022
c. NAME AND TITLE	
Peter Moore, P.E., F.ASCE, ENV SP, LEED AP, President and CEO	







**CITY OF FORT LAUDERDALE BUSINESS TAX YEAR 2021-2022**

**Business Tax Division**  
700 NW 19TH AVE. | FORT LAUDERDALE, FL 33311 | (954) 828 - 5195

**Business ID:** BL-1200320      **Business Name:** MOORE, PETER

**Business Address:** 500 NW 62 ST # 630

MOORE, PETER  
500 NW 62 ST # 630  
FORT LAUDERDALE FL 33309

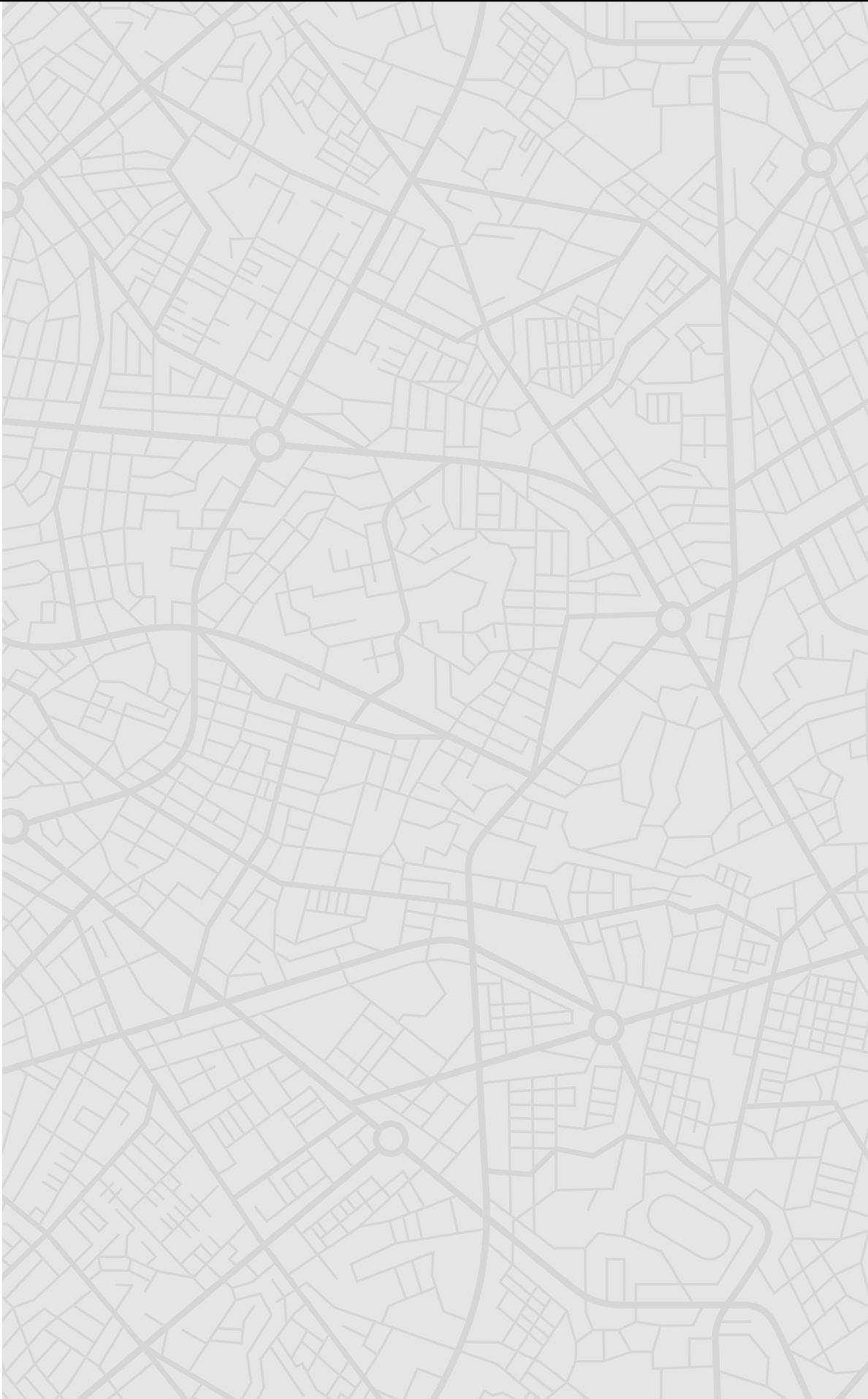
**TAX CATEGORIES**  
412300 LANDSCAPE ARCHITECT

**Contact:** MOORE, PETER  
**Business Email:** Pmoore@Chenmoore.Com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email [business@fortlauderdale.gov](mailto:business@fortlauderdale.gov), and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to [business@fortlauderdale.gov](mailto:business@fortlauderdale.gov), and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.  
Fort Lauderdale, FL 33311  
TEL 954 828 5195  
WWW.FORTLAUDERDALE.GOV



CITY OF FORT LAUDERDALE



## ARCHITECT-ENGINEER QUALIFICATIONS

### PART I - CONTRACT-SPECIFIC QUALIFICATIONS

#### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

2. PUBLIC NOTICE DATE

3. SOLICITATION OR PROJECT NUMBER

#### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

5. NAME OF FIRM

6. TELEPHONE NUMBER

7. FAX NUMBER

8. E-MAIL ADDRESS

#### 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.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
b.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		

#### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☐ *(Attached)*

**ARCHITECT – ENGINEER QUALIFICATIONS**

1. SOLICITATION NUMBER (if any)

**20-D-00049****PART II – GENERAL QUALIFICATIONS***(If a firm has branch offices, complete for each specific branch office seeking work.)*

2a. FIRM (OR BRANCH OFFICE) NAME GPI Geospatial, Inc.			3. YEAR ESTABLISHED 1973	4. DUNS NUMBER 078592486
2b. STREET 8935 NW 35 <sup>th</sup> Lane, Suite 100			5. OWNERSHIP a. TYPE Corporation	
2c. CITY Doral	2d. STATE FL	2e. ZIP CODE 33172	b. SMALL BUSINESS STATUS N/A	
6a. POINT OF CONTACT NAME AND TITLE Frank Paruas, PSM – Doral Office Manager/Sr. Survey Manager			7. NAME OF FIRM (if block 2a is branch office)	
6b. TELEPHONE NUMBER 407-937-0896		6c. E-MAIL ADDRESS fparuas@gpinet.com		
8a. FORMER FIRM NAME(S) (if any) N/A			8b. YR. ESTABLISHED N/A	8c. DUNS NUMBER N/A

**9. EMPLOYEES BY DISCIPLINE****10. PROFILE OF FIRM'S EXPERIENCE  
AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS**

a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	7		002	Aerial Photography	6
03	Aerial Photographer	8		R07	Remote Sensing	6
08	CADD Technician	6				
29	Geographic Information System Specialist	3				
38	Land Surveyor	46	8			
46	Photogrammetrist	23				
49	Remote Sensing Specialist	18	1			
	Other Employees	6				
<b>Total</b>		<b>117</b>	<b>9</b>			

**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	2	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	8	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	8	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

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

a. SIGNATURE 	b. DATE October 2, 2021
c. NAME AND TITLE <b>Matthew LaLuzerne, PSM - Vice President</b>	

## State of Florida Department of State

I certify from the records of this office that GPI GEOSPATIAL, INC. is a corporation organized under the laws of the State of Florida, filed on December 29, 2003.

The document number of this corporation is P04000000100.

I further certify that said corporation has paid all fees due this office through December 31, 2021, that its most recent annual report/uniform business report was filed on January 19, 2021, 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 Nineteenth day of January,  
2021*



*Ramón R. Roca*  
**Secretary of State**

Tracking Number: 7727901148CC

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

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



Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500  
800HELPLA(435-7352) or (850) 488-2221

February 24, 2021

GPI GEOSPATIAL, INC.  
3051 E LIVINGSTON ST STE 300  
ORLANDO, FL 32803-5045

SUBJECT: Professional Surveyor and Mapper Business Certificate # LB6748

Your application / renewal as a professional surveyor and mapper business as required by Chapter 472, Florida Statutes, has been received and processed.

The license appears below and is valid through February 28, 2023.

You are required to keep your information with the Board current. Please visit our website at [www.800helpfla.com/psm](http://www.800helpfla.com/psm) to create your online account. If you have already created your online account, you can use the website to maintain your license. You can also find other valuable information on the website.

If you have any questions, please do not hesitate to call the Division of Consumer Services, Board of Professional Surveyors and Mappers at 800-435-7352 or 850-488-2221.

Detach Here



Florida Department of Agriculture and Consumer Services  
Division of Consumer Services  
Board of Professional Surveyors and Mappers  
2005 Apalachee Pkwy Tallahassee, Florida 32399-6500

License No: LB6748

Expiration Date February 28, 2023

### Professional Surveyor and Mapper Business License Under the provisions of Chapter 472, Florida Statutes

GPI GEOSPATIAL, INC.  
3051 E LIVINGSTON ST STE 300  
ORLANDO, FL 32803-5045

*Nicole Fried*

NICOLE "NIKKI" FRIED  
COMMISSIONER OF AGRICULTURE

This is to certify that the professional surveyor and mapper whose name and address are shown above is licensed as required by Chapter 472, Florida Statutes.

2022

### LOCAL BUSINESS TAX RECEIPT

CITY OF DORAL, FLORIDA  
8401 NW 53RD TERRACE  
DORAL, FL 33186  
(305) 593-8631

10/01/2021  
GPI GEOSPATIAL INC  
GPI GEOSPATIAL INC  
8835 NW 36 LN UNIT 100  
DORAL 33172

LICENSE NO. 2021008532  
License Fee Paid: \$60.00

FOR THE PERIOD COMMENCING OCTOBER 1 AND ENDING SEPTEMBER 30, THE ABOVE-NAMED BUSINESS IS LICENSED TO ENGAGE IN THE FOLLOWING BUSINESS FOR THE LICENSE YEAR:

P.A./CORP/PARTNERSHIP/FIRM

Square Footage: 2434  
No. of Seats/Tables: 0  
No. of Units/Spaces:

Machines:  
Employees: 8  
No. of Trucks:

State License #: LB6748

CONDITIONS:  
DORAL: PROFESSIONAL SURVEYOR AND MAPPER BUSINESS OFFICE, NO OUTSIDE STORAGE OR DISPLAYS, OFFICE USE ONLY, DRY USE ONLY

*Kenia Palau*  
Kenia Palau  
Chief Licensing Official

This Document Must Be Posted



# Florida Department of Transportation

RON DESANTIS  
GOVERNOR

605 Suwannee Street  
Tallahassee, FL 32399-0450

JARED W. PERDUE, P.E.  
SECRETARY

July 11, 2022

Michael Zoltek, Associate Vice President  
GPI GEOSPATIAL, INC.  
3051 E Livingston Street, Suite 300  
Orlando, Florida 32803

Dear Mr. Zoltek:

The Florida Department of Transportation has reviewed your application for prequalification package and determined that the data submitted is adequate to technically prequalify your firm for the following types of work:

- Group 8 - Survey and Mapping
- 8.1 - Control Surveying
  - 8.2 - Design, Right of Way & Construction Surveying
  - 8.3 - Photogrammetric Mapping
  - 8.4 - Right of Way Mapping

Your firm is now technically prequalified with the Department for Professional Services in the above referenced work types. The overhead audit has been accepted, and your firm may pursue projects in the referenced work types with fees of any dollar amount. This status shall be valid until June 30, 2023, for contracting purposes.

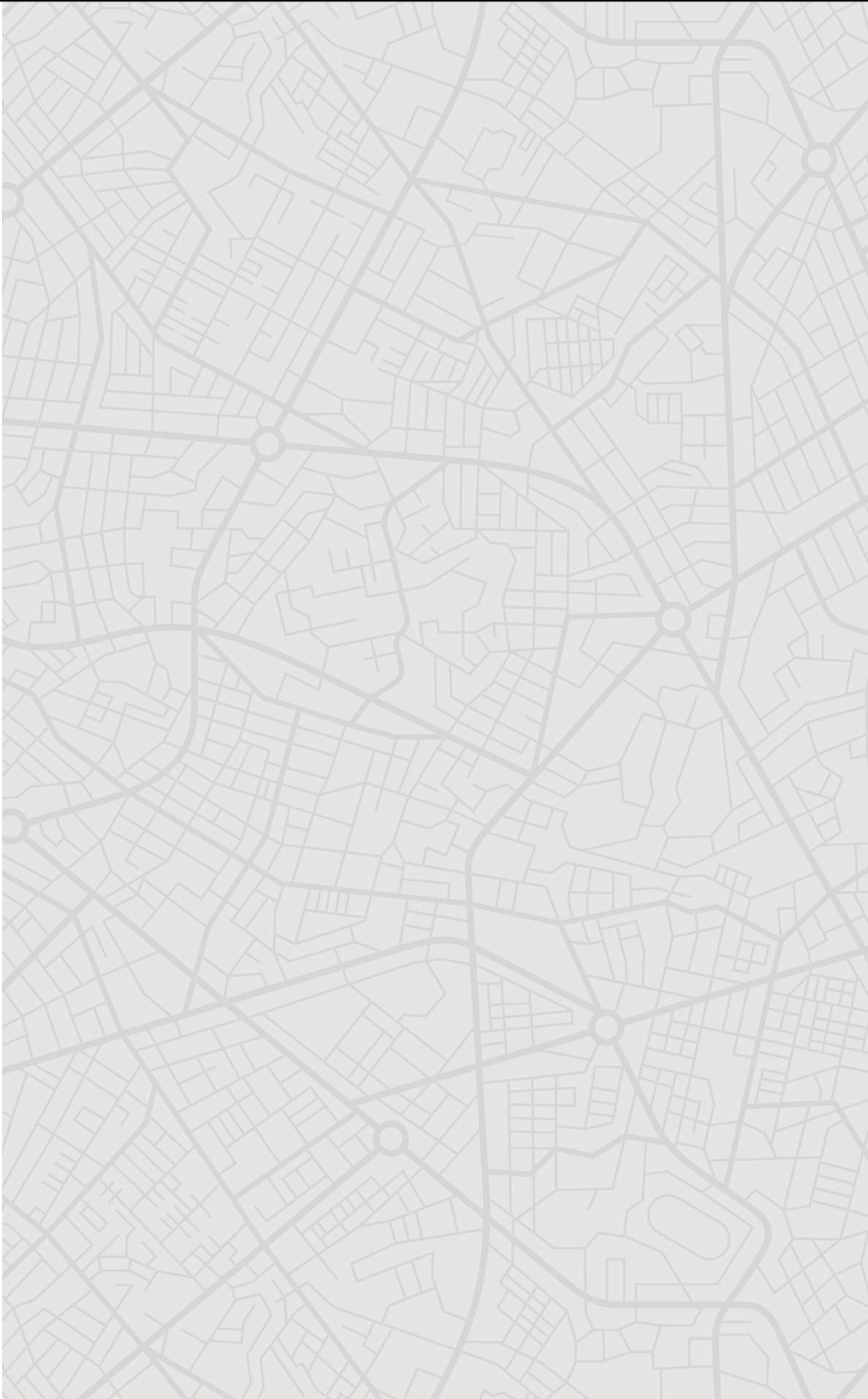
## Approved Rates

Home/ Branch Overhead	Facilities Capital Cost of Money	Premium Overtime	Reimburse Actual Expenses	Home Direct Expense
253.18%	1.391%	Reimbursed	No	6.27%

**Per Title 23, U.S. Code 112, there are restrictions on sharing indirect cost rates. Refer to Code for additional information.**

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,



CITY OF FORT LAUDERDALE

9/29/2023

BidSync

**HBC** Engineering  
Company

CAM #23-0852  
Exhibit B  
Page 31 of 170




1. SOLICITATION NUMBER (If any)  
City of Fort Lauderdale  
RFQ # 12716-626

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

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. Number of Employees		a. Profile Code	b. Experience	c. Revenue Index Number <i>(see below)</i>
		(1) FIRM	(2) BRANCH			
02	Administrative	2		C15	Construction Management	2
08	CADD Technicians	2		E08	Engineering Economics	4
12	Civil Engineers	11		E09	Environmental Impact Studies	2
15	Construction Inspection	2		E11	Environmental Planning	2
63	Engineering Tech	2		E12	Environmental Remediation	1
20	Economist	4		E13	Env. Testing & Analysis	1
				H12	Hydraulics & Pneumatics	2
				L06	Lighting: Ext.St.Memorials	1
				R11	Rivers, Canals, Watrways, Flood	3
				S04	Sewage Coil., Treatment/Disp	4
				S13	Stormwater Handling&Facility	4
				T02	Testing & Inspection Svcs.	2
				W02	Water Resources, Hydrology	1
				W03	Watter Supply, Treatment	4
	Other Employees					
<b>Total</b>		22				

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

*The foregoing is a statement of facts.*

a. SIGNATURE	b. DATE
	09/16/2022
c. NAME AND TITLE	
Julio Menache - Director of Engineering	

## State of Florida Department of State

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

The document number of this corporation is K58420.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 21, 2022, 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-first day of January,  
2022*



*Samuel R. Butter*  
**Secretary of State**

Tracking Number: 3066341445CU

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

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

9/17/21, 2:03 PM

Related License Information

Print

### Licensee

Name: **MILIAN, ARSENIO** License Number: **13134**  
Rank: **Professional Engineer** License Expiration Date: **02/28/2023**  
Primary Status: **Current** Original License Date:  
Secondary Status: **Active**

### Related License Information

License Number	Status	Related Party	Relationship Type	Relation Effective Date	Rank	Expiration Date
5460	Current	MILIAN, SWAIN & ASSOCIATES, INC.	Registry	03/24/2005	Registry	

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



Department of Business  
& Professional Regulation

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[Find Exam Information](#)  
[Unlicensed Activity Search](#)  
[AB&T Delinquent Invoice & Activity List Search](#)

### LICENSEE DETAILS

4:25:29 PM 9/15/2022

#### Licensee Information

Name: **MILIAN, SWAIN & ASSOCIATES, INC. (Primary Name)**  
Main Address: **2025 SW 32ND AVENUE**  
**MIAMI Florida 33145**  
County: **DADE**

#### License Information

License Type: **Registry**  
Rank: **Registry**  
License Number: **5460**  
Status: **Current**  
License Date: **10/02/1989**  
Expires:

Special Qualifications Qualification Effective

Alternate Names

[View Related License Information](#)  
[View License Complaint](#)

## State of Florida Minority Business Certification

**Milian, Swain & Associates, Inc.**

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
12/21/2020 to 12/21/2022

*Jonathan R. Sutter*  
Jonathan R. Sutter, Secretary  
Florida Department of Management Services



Office of Supplier Diversity  
4050 Esplanade Way, Suite 380  
Tallahassee, FL 32399  
850-487-0955  
[www.dms.myflorida.com/osd](http://www.dms.myflorida.com/osd)



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

March 23, 2021

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

**Approval Date:** January 31, 2021 - Small Business Enterprise - Architectural & Engineering (SBE-A&E)  
**Expiration Date:** January 31, 2024

Dear Arsenio Milian,

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

This Small Business Enterprise - Architectural & Engineering (SBE-A&E) certification is valid for three years provided that you submit a "Continuing Eligibility Affidavit" on or before your anniversary date, January 31, 2022. The affidavit must indicate any changes or no changes in your firm pertinent to your certification eligibility. The submittal of a "Continuing Eligibility Affidavit" annually with specific supporting documents on or before your Anniversary Date is required to maintain the three-year certification. You will be notified of this responsibility in advance of the Anniversary Date. Failure to comply with the said responsibilities may result in immediate action to decertify the firm.

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

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

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

Sincerely,

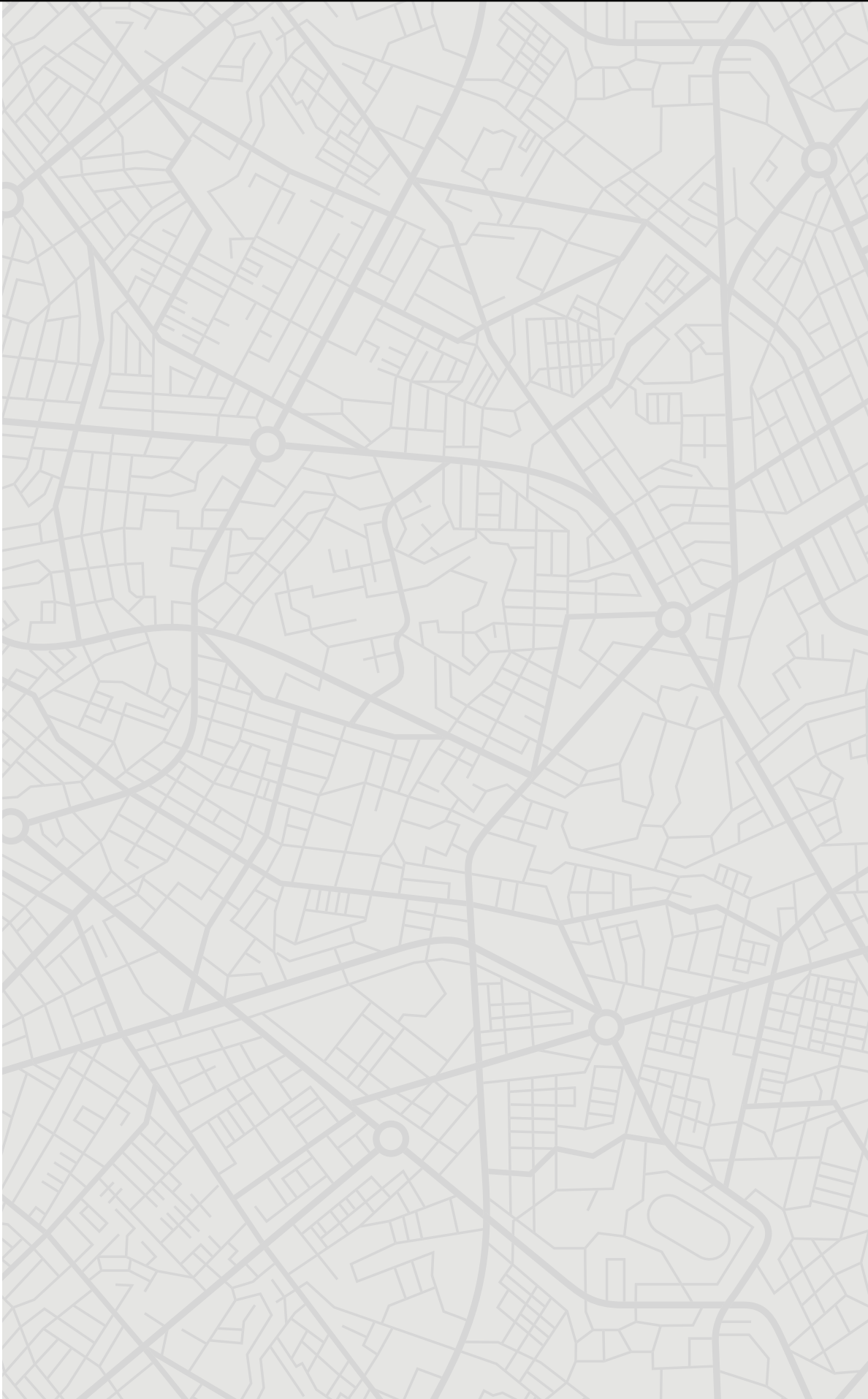
Gary Hartfield  
Director of Small Business Development

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

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

MDC-TCC 10-01: STORMWATER DRAINAGE DESIGN ENGINEERING SERVICES  
MDC-TCC 10-03: BIOLOGY SERVICES  
MDC-TCC 10-05: CONTAMINATION ASSESSMENT AND MONITORING  
MDC-TCC 16: GENERAL CIVIL ENGINEERING  
MDC-TCC 17: ENGINEERING CONSTRUCTION MANAGEMENT  
NAICS 541330: ENGINEERING SERVICES





CITY OF FORT LAUDERDALE

9/29/2023

BidSync

**HBC** Engineering  
Company

CAM #23-0852  
Exhibit B  
Page 35 of 170

# ARCHITECT - ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

#### 1. TITLE AND LOCATION (City and State)

City of Fort Lauderdale: Consultant Services for Riverwalk North Seawall Replacement Project.

#### 2. PUBLIC NOTICE DATE

#### 3. SOLICITATION OR PROJECT NUMBER

12716-626

### B. ARCHITECT-ENGINEER POINT OF CONTACT

#### 4. NAME AND TITLE

Raj Krishnasamy, P.E., President

#### 5. NAME OF FIRM

Tierra South Florida, Inc. dba (TSFgeo)

#### 6. TELEPHONE NUMBER

(561) 687-8536

#### 7. FAX NUMBER


(561) 687-8570

#### 8. E-MAIL ADDRESS

raj@tsfgeo.com

### C. PROPOSED TEAM

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.			<input checked="" type="checkbox"/>	 <input type="checkbox"/> CHECK IF BRANCH OFFICE	2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411	Geotechnical Engineering Services
b.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.				<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☐ (Attached)

## H. ADDITIONAL INFORMATION

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

### Company Profile

Tierra South Florida, Inc. (TSFgeo) is a multi-disciplinary geotechnical, materials engineering, and inspection firm, offering professional engineering and associated consulting services to both the public and private sectors. The primary service areas are:

1. Geotechnical Engineering
2. Field and laboratory construction materials engineering inspection and testing
3. Threshold/Special Inspections

The geotechnical and materials engineering services provide clients with the comprehensive range of siting, planning, design, construction, and quality control disciplines required for major construction projects.

Mr. Raj Krishnasamy, P.E. qualifies as a minority by Federal Guidelines. Mr. Krishnasamy is a licensed Engineer with more than 35 years of experience in geotechnical, material engineering, and inspection services. TSFgeo is a certified **Disadvantaged Business Enterprise (DBE)** with the Florida Department of Transportation and a certified **Minority Business Enterprise (MBE)** with the State of Florida's Office of Supplier Diversity. Additionally, TSFgeo is a certified **Small Business Enterprise (SBE)** with the SFWMD and Pinellas County. Our main office is in West Palm Beach, Florida with branch offices in Miami Lakes, Tampa, and Orlando, Florida.

### Geotechnical Engineering

TSFgeo provides a complete range of geotechnical engineering services. These services include site assessments, planning, field and laboratory investigations, design specifications and recommendations, quality control, instrumentation, and performance studies. Applications are for all types of buildings, airport facilities, transportation systems, landfills, dams, and other civil and private projects. Tierra South Florida's primary market is minority business set aside by City, County, State, and Federal agencies.

### Construction Materials Engineering and Testing

TSFgeo offers materials engineering, testing, and inspection services applicable to the governmental, construction, and manufacturing industries. TSFgeo will evaluate and then develop recommendations regarding both existing structures and new construction. During construction, monitoring and quality control services will cover every phase of construction and all materials used. TSFgeo's field and laboratory technicians hold industry-recognized certifications (ACI/CTQP /PCI/FPCA) for aggregates, asphalt, concrete, and earthwork testing as well as the drilled shaft, auger cast pile, and pile driving monitoring.

### Laboratory Facilities

TSFgeo owns and operates three fully equipped in-house soils, concrete, aggregate, and asphalt testing laboratories certified by Construction Materials Engineering Council (CMEC). TSFgeo labs follow the American Society for Testing and Materials (ASTM) and American Association of State Highway and Transportation Officials (MSHTO) standards, and our West Palm Beach laboratory is also validated by FOOT and the United States Army Corp of Engineers (USACE). These laboratories provide specialized testing services associated with geotechnical engineering, and construction materials to better meet the needs of their clients. TSFgeo's laboratory facilities are designed and operated to provide fast, reliable information to assure the meeting of clients' needs. The trained and certified laboratory staff will routinely perform physical properties testing of soil, rock, concrete, steel, asphalt, and composite building materials. These testing services are performed in support of all project phases, including site investigations and assessments, design, and construction.

### Corporate and Project Management Philosophy

The Tierra South Florida Inc. organization is committed to minimizing corporate administrative control which allows both branch management and specific technical teams to take correct and timely actions to meet the objectives of their clients. Employees stress quality and responsive services in which they will take a great deal of pride. Client satisfaction with the quality of Tierra South Florida's work, past, and future, will result in a large percentage of work to be performed for repeat clients.

### Interaction with Regulatory Agencies

Tierra South Florida Inc. has an excellent working relationship with the Florida Department of Transportation as well as the South Florida Water Management District. When working within the right of way of these agencies, Tierra South Florida will submit an application to request a work permit and obtain the proper authorization prior to proceeding with work. Tierra South Florida will then follow up with a meeting to explain the scope in detail and notify the agency at completion.

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

September 16, 2022

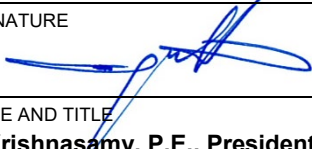
33. NAME AND TITLE

Raj Krishnasamy, P.E., President/Principal Engineer

**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 <b>TIERRA SOUTH FLORIDA, INC. dba (TSFgeo)</b>				3. YEAR ESTABLISHED <b>2003</b>		4. DUNS NUMBER <b>829296222</b>	
2b. STREET <b>2765 Vista Parkway, Suite 10</b>				5. OWNERSHIP			
2c. CITY <b>West Palm Beach</b>		2d. STATE <b>FL</b>		2e. ZIP CODE <b>33411</b>		a. TYPE <b>Corporation</b>	
6a. POINT OF CONTACT NAME AND TITLE <b>Raj Krishnasamy, P.E., President</b>				b. SMALL BUSINESS STATUS <b>MBE - Florida Statewide OSD</b>			
6b. TELEPHONE NUMBER <b>(561) 687-8536</b>		6c. E-MAIL ADDRESS <b>Raj@tsfgeo.com</b>		7. NAME OF FIRM (If block 2a is a branch office) <b>N/A</b>			
8a. FORMER FIRM NAME(S) (If any) <b>N/A</b>				8b. YR. ESTABLISHED <b>N/A</b>		8c. DUNS NUMBER <b>N/A</b>	
9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)	
		(1) FIRM	(2) BRANCH				
2	Administrative	6	6	S05	Soils and Geologic Studies; Foundations	6	
8	CADD Technician	2	2	T02	Testing and Inspection Services	6	
27	Foundation/Geotechnical Eng.	7	7				
58	Technician/Analyst	27	27				
15	Construction Inspector	5	5				
16	Construction Manager	2	2				
Total		49	49				
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		6		1. Less than \$100,000.			
b. Non-Federal Work		6		2. \$100,000 to less than \$250,000			
c. Total Work		7		3. \$250,000 to less than \$500,000			
				4. \$500,000 to less than \$1 million			
				5. \$1 million to less than \$2 million			
				6. \$2 million to less than \$5 million			
				7. \$5 million to less than \$10 million			
				8. \$10 million to less than \$25 million			
				9. \$25 million to less than \$50 million			
				10. \$50 million or greater			

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

a. SIGNATURE 		b. DATE <b>September 16, 2022</b>
c. NAME AND TITLE <b>Raj Krishnasamy, P.E., President/Principal Engineer</b>		



## State of Florida Department of State

I certify from the records of this office that TIERRA SOUTH FLORIDA, INC. is a corporation organized under the laws of the State of Florida, filed on October 7, 2003, effective October 17, 2003.

The document number of this corporation is P03000110144.

I further certify that said corporation has paid all fees due this office through December 31, 2022, that its most recent annual report/uniform business report was filed on January 6, 2022, 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 Sixth day of January, 2022*



*Randy R. Lee*  
Secretary of State

Tracking Number: 9960383519CC

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

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

## State of Florida Minority Business Certification

**Tierra South Florida, Inc.**

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
09/17/2021 to 09/17/2023

*Jonathan R. Satter*  
Jonathan R. Satter, Secretary  
Florida Department of Management Services



Office of Supplier Diversity  
4050 Esplanade Way, Suite 300  
Tallahassee, FL 32399  
850-487-0955  
[www.dms.myflorida.com/osd](http://www.dms.myflorida.com/osd)

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



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### LICENSEE DETAILS

11:10:52 AM 9/1/2022

#### Licensee Information

Name: **TIERRA SOUTH FLORIDA, INC. (Primary Name)**  
Main Address: **2765 VISTA PKWY, STE 9  
WEST PALM BEACH Florida 33411**  
County: **PALM BEACH**

#### License Information

License Type: **Registry**  
Rank: **Registry**  
License Number: **28073**  
Status: **Current**  
Licensure Date: **04/13/2008**  
Expires:

Special Qualifications **Qualification Effective**

Alternate Names

[View Related License Information](#)  
[View License Complaint](#)

# State of Florida



**Board of Professional Engineers**

*Attest that*  
**Tierra South Florida, Inc.**

*Has satisfied the requirements of Section 471.023, Florida Statutes. In recognition thereof, the Board of Professional Engineers hereby authorizes this firm to offer engineering services in the State of Florida in accordance with Chapter 471, Florida Statutes, and the rules of the Board.*



CERTIFICATE OF AUTHORIZATION NO. **28073**  
FEMC-CA-022809-108-I

*Witness the Seal of the Board and the Signature  
of the Board's duly authorized Chair*  
this **13** day of **APR**, 20**08**  
*John C. Satter*  
CHAIR

# SECTION 4

City of Fort Lauderdale

12716-626

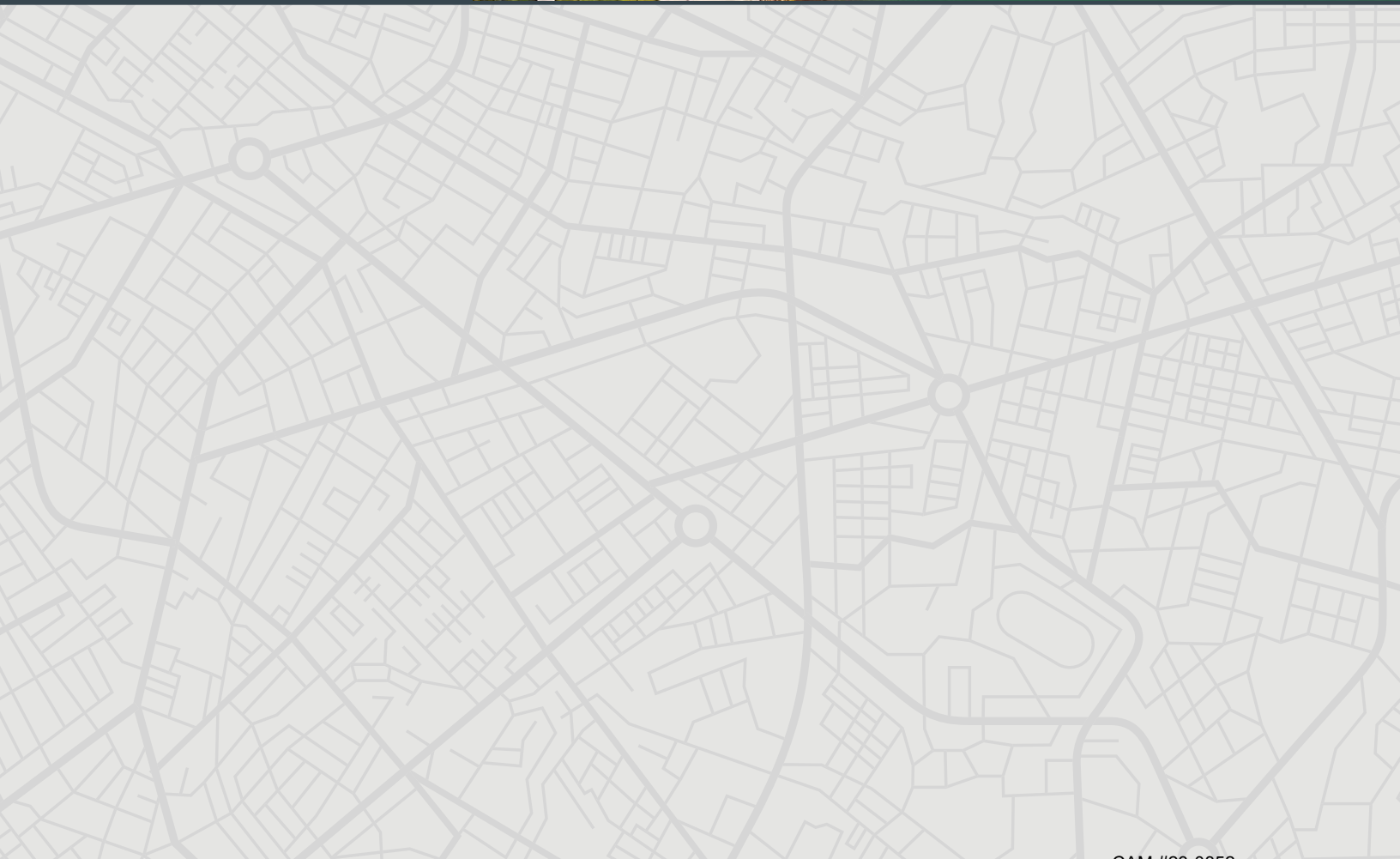
## QUALIFICATIONS OF THE PROJECT TEAM



CITY OF FORT LAUDERDALE



Alberto Pallot Park Shoreline Protection







CITY OF FORT LAUDERDALE

ORGANIZATIONAL CHART



CITY OF FORT LAUDERDALE  
Contract Administrator & Project Manager



Principal-in-Charge

Adebayo Coker, PE  
Exp. 29 | **HBC**



Project Manager

Miguel Villegas, MS, PE  
Exp. 25 | **HBC**

Quality Assurance/  
Quality Control



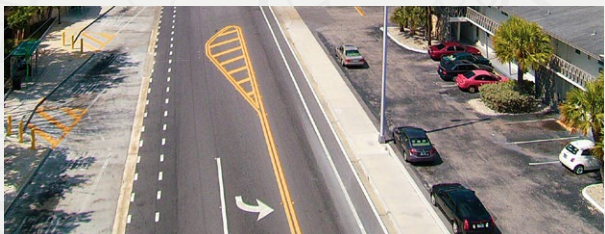
Teodoro Tefel, PE  
QA/QC Manager  
Exp. 33 | **HBC**



Edgar Diaz, MS, PE  
Constructibility Reviewer  
Exp. 36 | **HBC**

LEGEND

Exp. . . . . Years of experience  
HBC. . . . . HBC Engineering Company  
CMA. . . . . Chen Moore and Associates, Inc.  
GPI. . . . . GPI Geospatial, Inc.  
MSA. . . . . Milian, Swain & Associates, Inc.  
TSF . . . . . Tierra South Florida, Inc.



Civil Engineering



Andres Cardona, PE  
Exp. 26 | **HBC**



Jose Lopez, PE  
Exp. 17 | **HBC**



Gonzalo Barrera, PE  
Exp. 4 | **HBC**



Claudia Bustamante,  
MS, PE  
Exp. 17 | **HBC**



Structural Engineering



Miguel Villegas, MS, PE  
Exp. 25 | **HBC**



Roberto Rubio, MS, PE  
Exp. 32 | **HBC**



Willy Giron Matute PhD,  
PE, LEED AP BD+C  
Exp. 10 | **HBC**



Geotechnical Engineering



Raj Krishnasamy, PE  
Exp. 35 | **TSF**



Kumar Vedula, PE  
Exp. 26 | **TSF**



Electrical Engineering



Orlando Penate, PE  
Exp. 15 | **HBC**



Maikel Fiallo, PE  
Exp. 21 | **HBC**

Supporting Services



Sonny Abia, PE, PhD  
Utility Coordinator  
Exp. 33 | **HBC**



David Coker, EI  
Utility Coordinator  
Exp. 5 | **HBC**



Brian Voelker, MS, SPWS, CA, CLI  
Environmental Permitting  
Exp. 25 | **CMA**



Daniel E Davila, PE  
Environmental Permitting  
Exp. 23 | **CMA**



Cristobal Betancourt, PLA, AICP  
Landscape Architect  
Exp. 27 | **CMA**



Eric Harrison, PLA  
Landscape Architect  
Exp. 19 | **CMA**



Frank Paruas, PSM  
Surveyor  
Exp. 23 | **GPI**



Julio Delgado, PSM  
Surveyor  
Exp. 25 | **GPI**



Arsenio Milian, PE  
Sea Level Rise/Chief Civil Engineer  
Exp. 50 | **MSA**



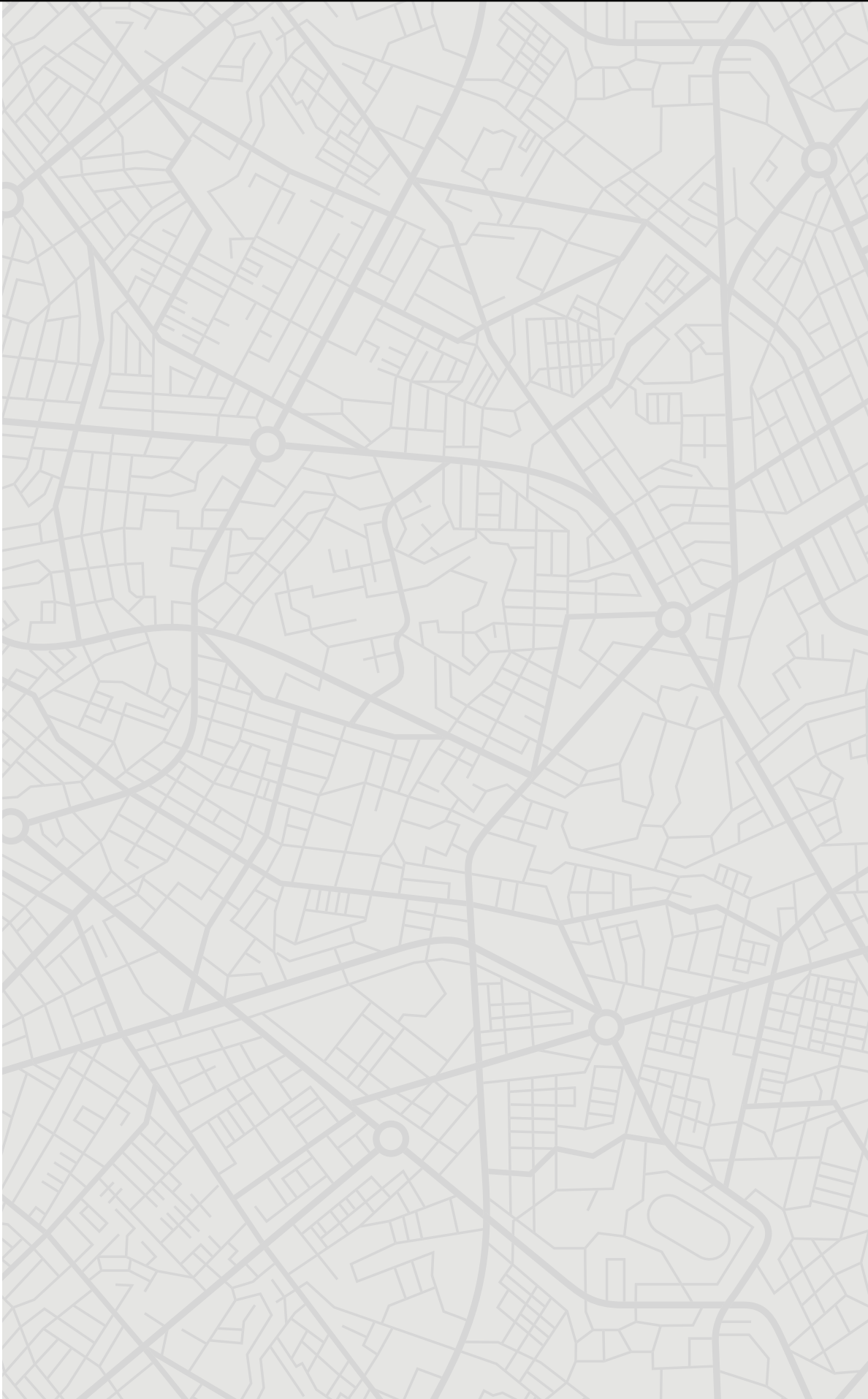
Michael Landrum, REM  
Sea Level Rise/Environmental Scientist  
Exp. 39 | **MSA**



Gabriel Milian, PE, ENV SP, LEED  
Sea Level Rise/Senior Engineer  
Exp. 20+ | **MSA**

For more information on the qualifications  
of our team such as our resumes and  
similar projects, please see  
**Section 9: Required Forms & Other Documents**





CITY OF FORT LAUDERDALE

9/29/2023



BidSync

**HBC Engineering Company**

CAM #23-0852  
Exhibit B  
Page 42 of 170



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**COKER, ADEBAYO T.**  
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258  
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Professional Engineer	<a href="#">TEFEL, TEODORO J.</a>	Primary	50106 Prof Engineer	Current, Active 02/28/2023

Main Address\*: 15421 SW 47 STREET MIAMI, FL 33185

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STATE OF FLORIDA

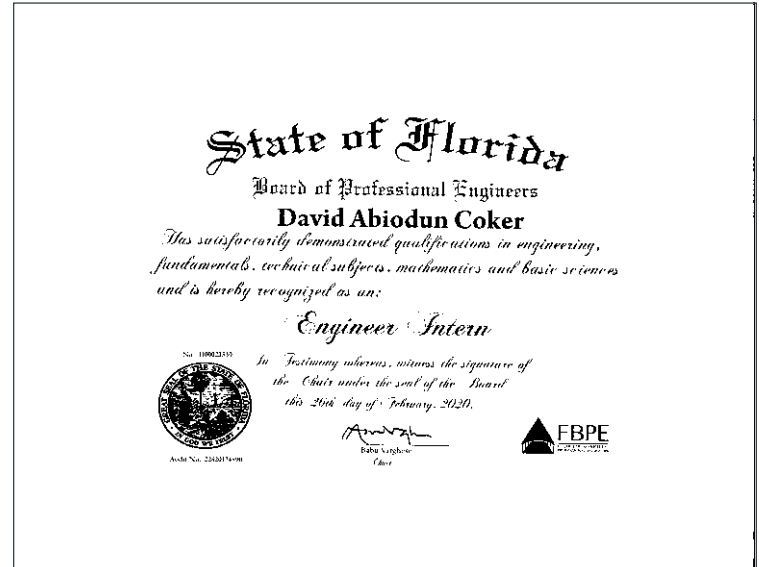
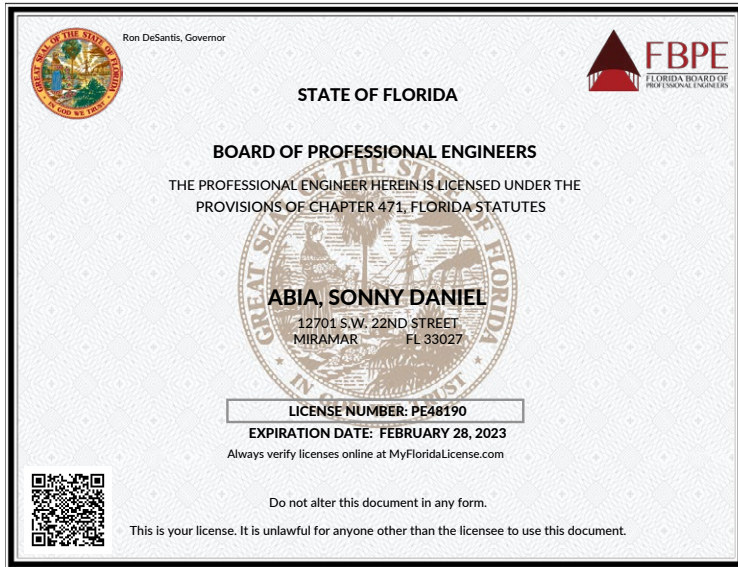
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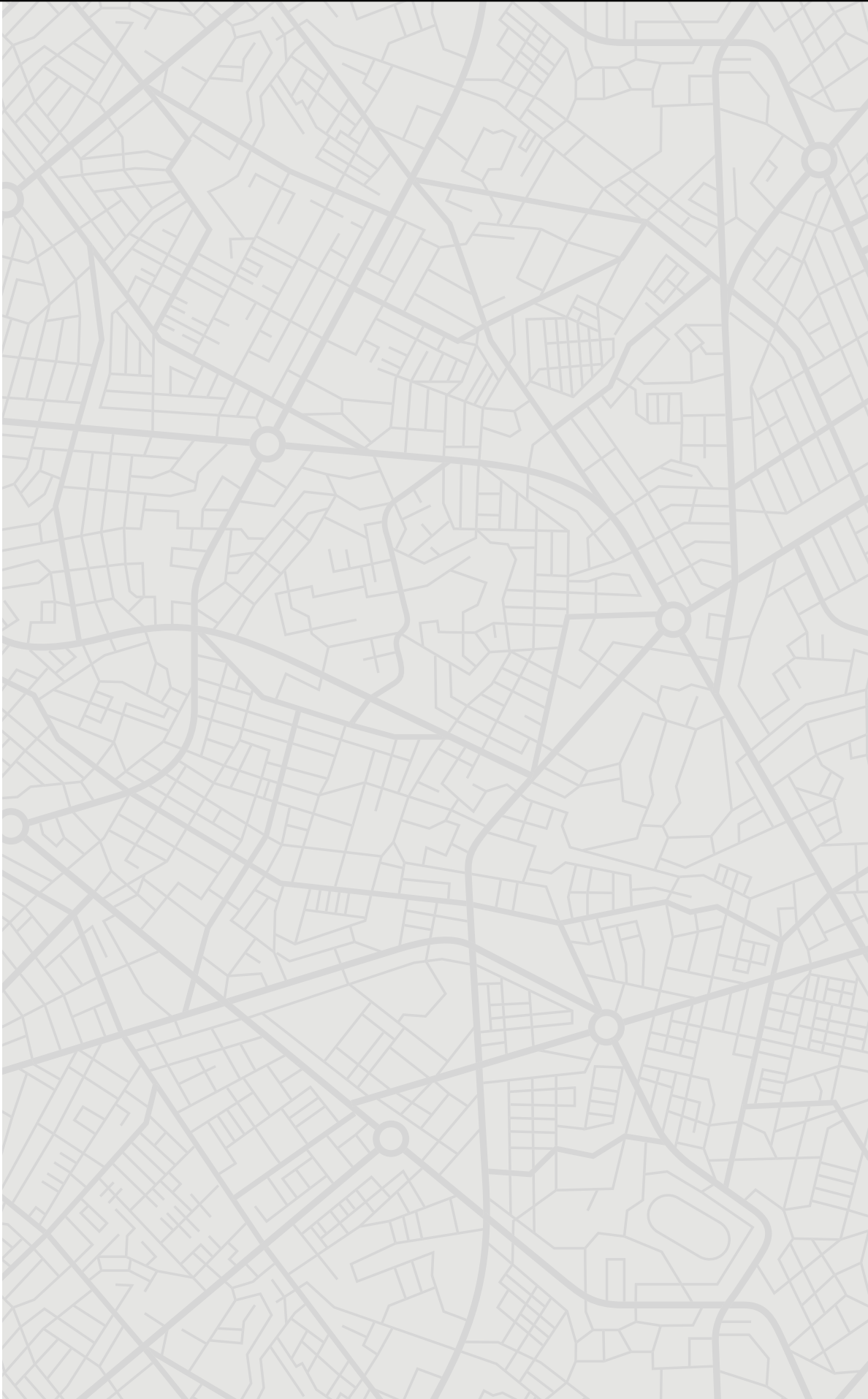
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



CITY OF FORT LAUDERDALE



*Society of Wetland Scientists*  
**Professional Certification Program, Inc**  
 renews the designation  
**Professional Wetland Scientist**  
 For  
**Brian Patrick Voelker**

In recognition of all the professional requirements approved by the Society of Wetland Scientists Certification Renewal Program, and verified by the Society's Certification Renewal Review Panel. Professional Wetland Scientist Number 1355 issued on 12/10/2002 and recertified on 2/23/2018. Due to recertify again by 12/10/2023.

  
 James E. Perry, PhD, FWS  
 President  
  
 Pat Fried, FWS  
 Certification Renewal Chair



**The International Society of Arboriculture**

Hereby Announces That

*Brian Voelker*

Has Earned the Credential

**ISA Certified Arborist®**

By successfully meeting ISA Certified Arborist certification requirements through demonstrated attainment of relevant competencies as supported by the ISA Credentialing Council

  
 Caitlyn Pollihan  
 CEO & Executive Director

28 January 2006      30 June 2024      FL-5378A  
 Issue Date      Expiration Date      Certification Number



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Julie I. Brown, Secretary



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**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**

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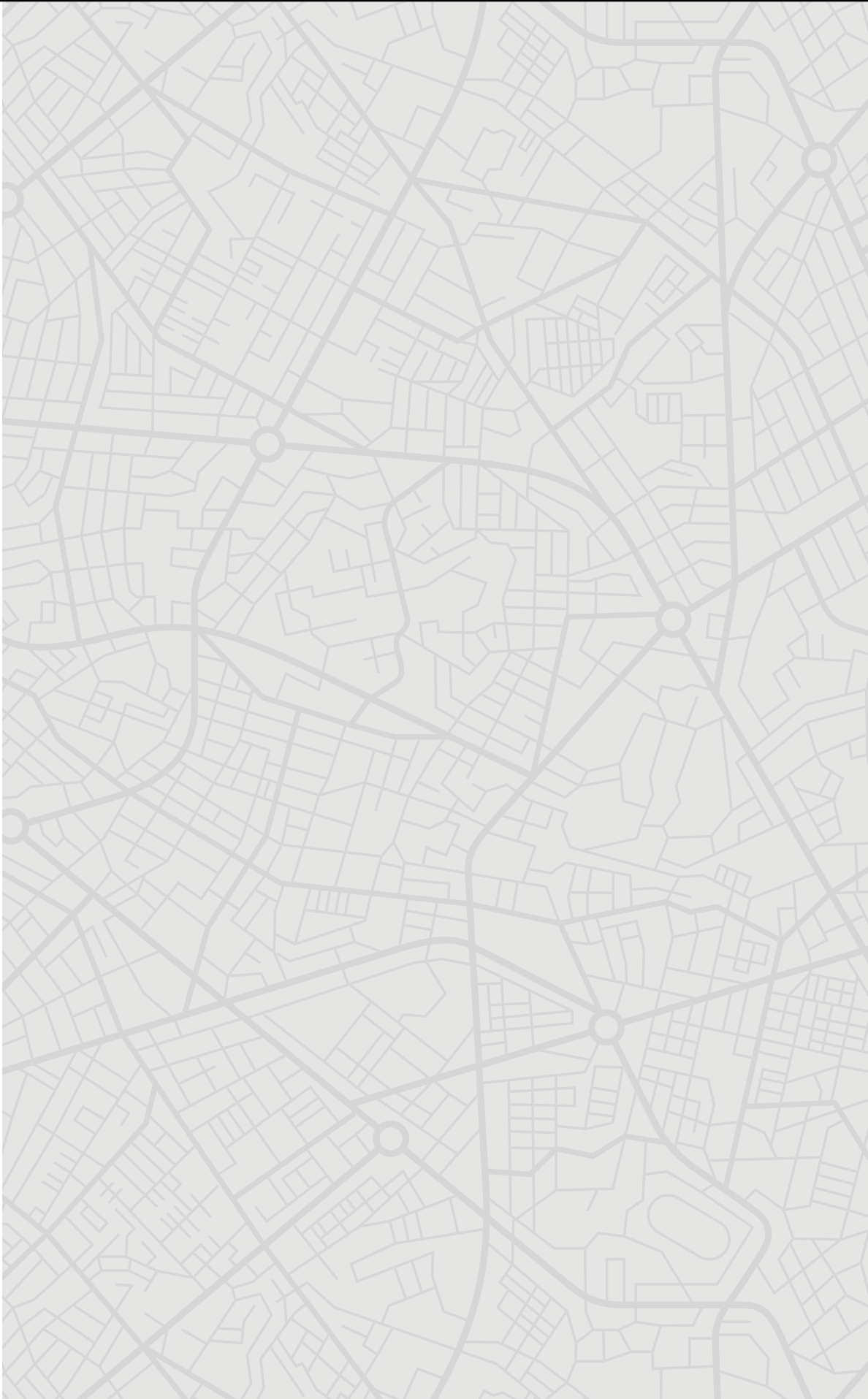
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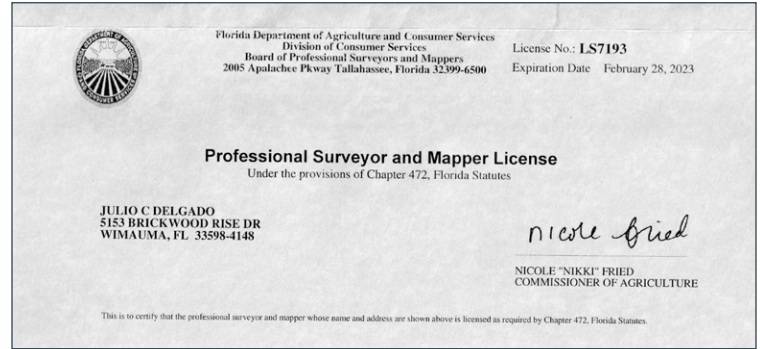
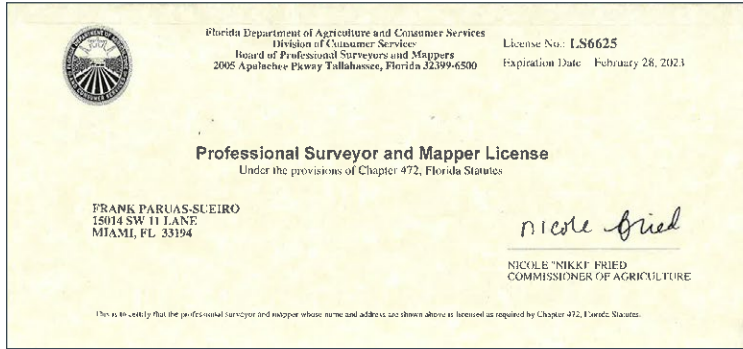


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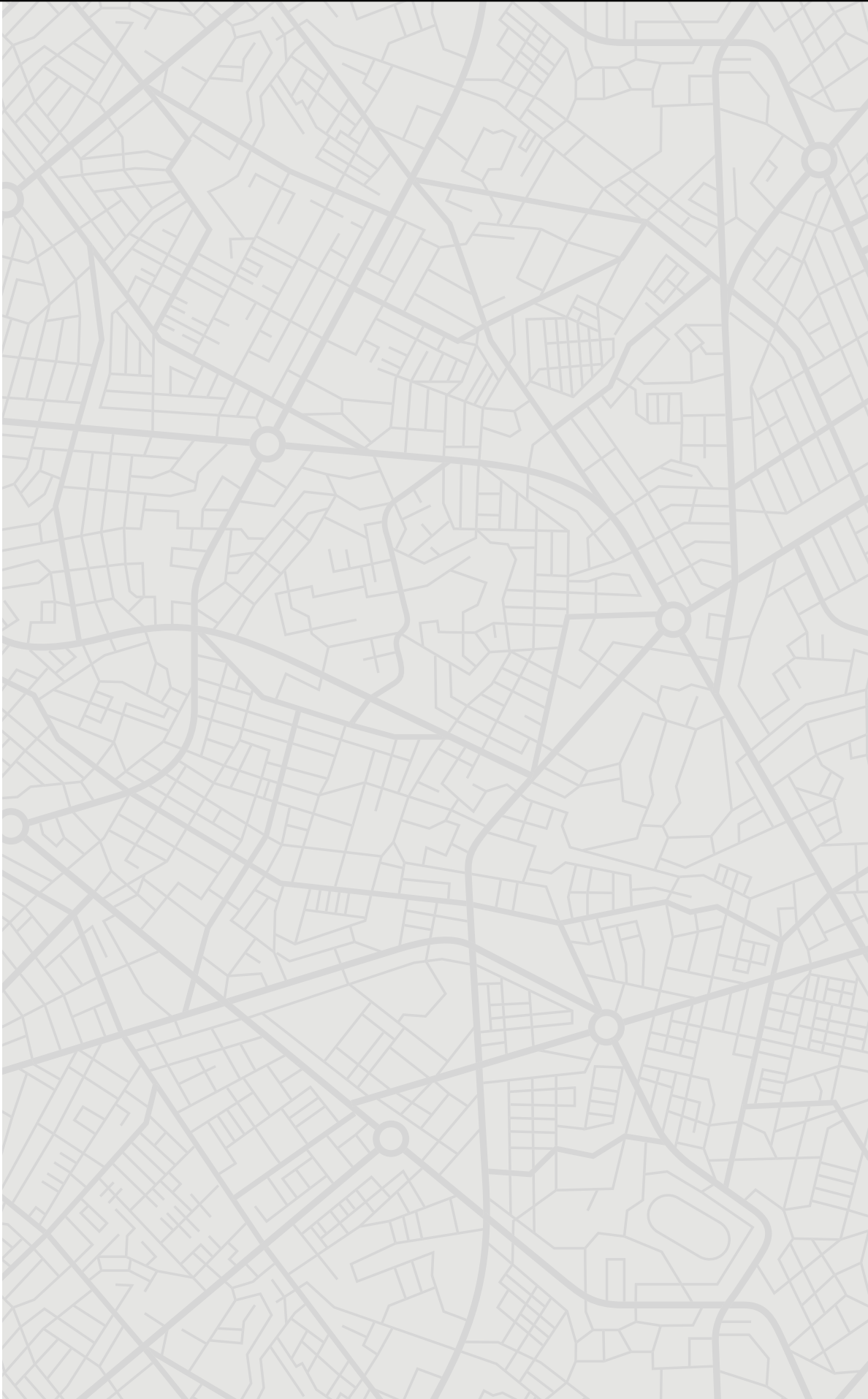
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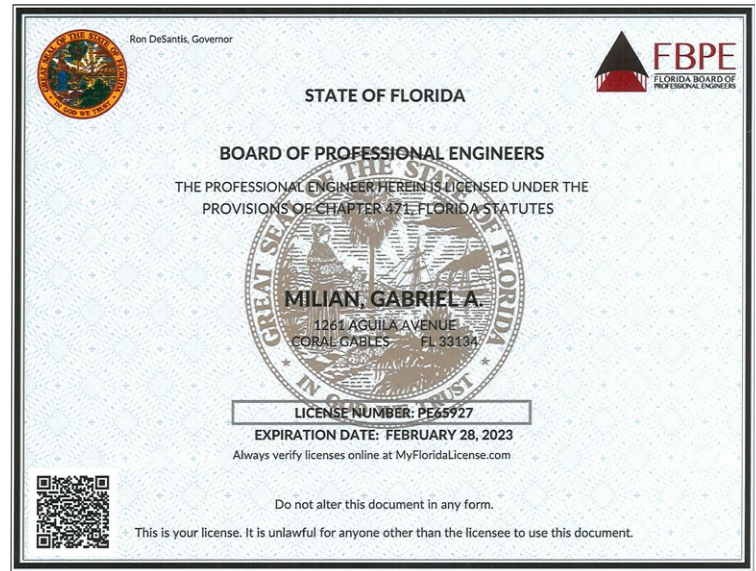
CITY OF FORT LAUDERDALE

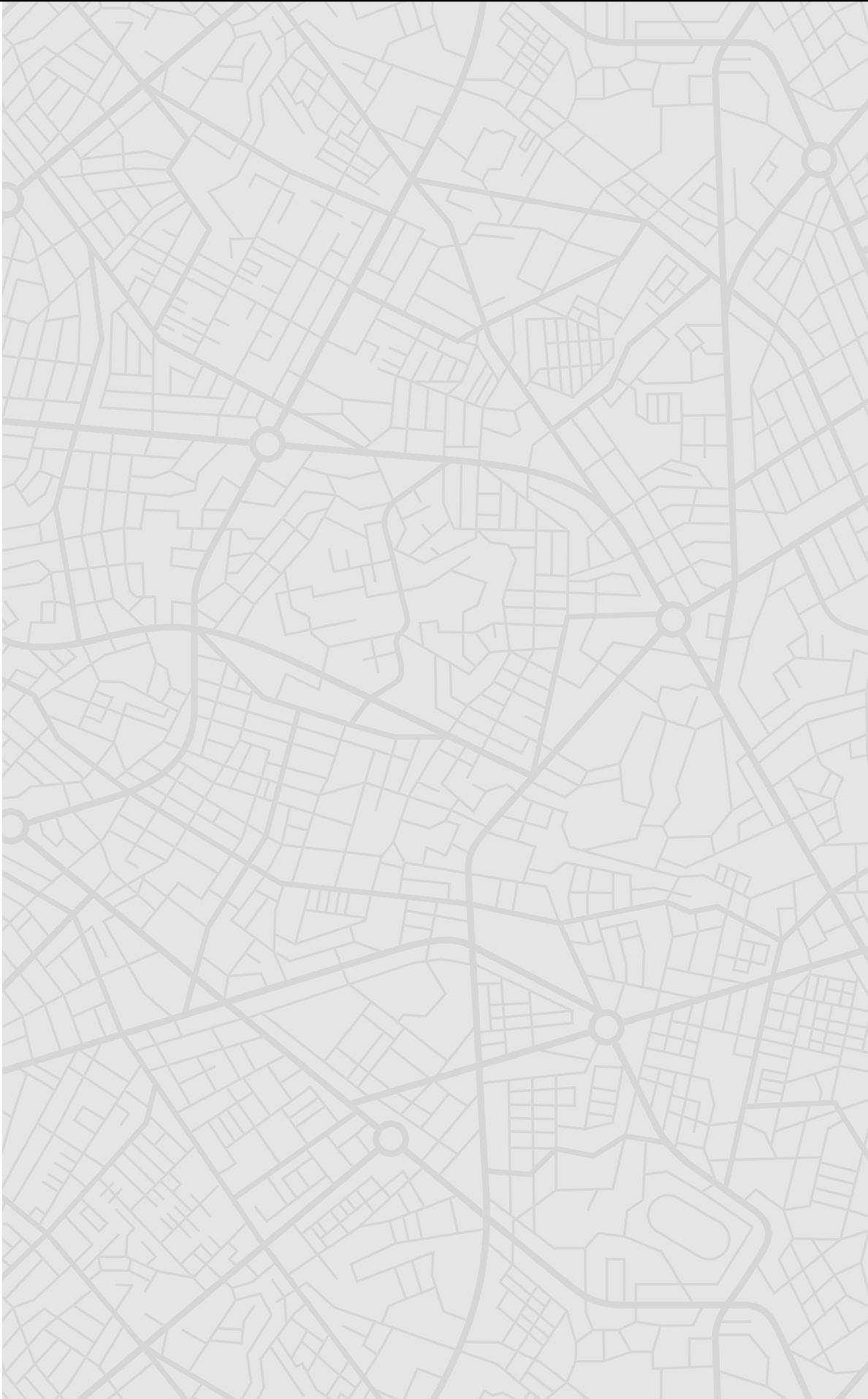






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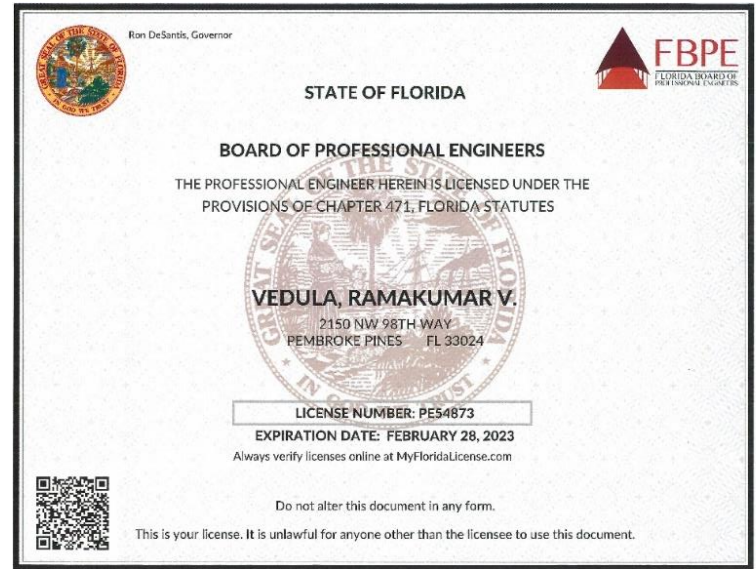
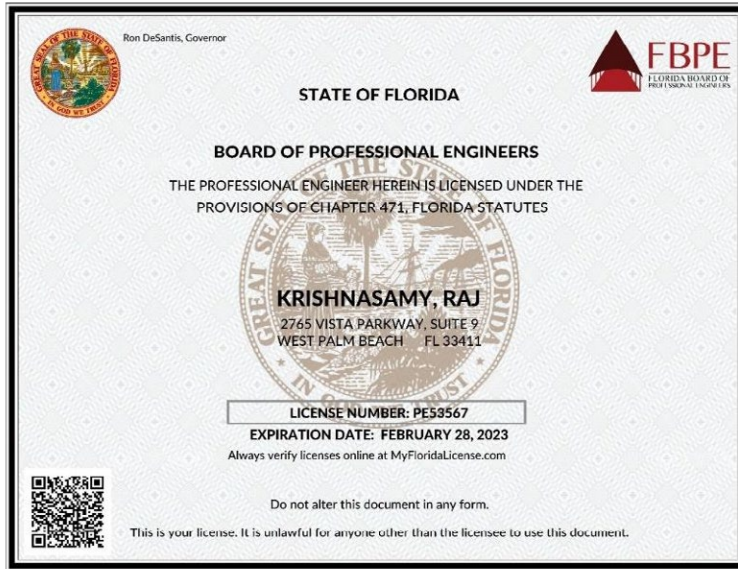


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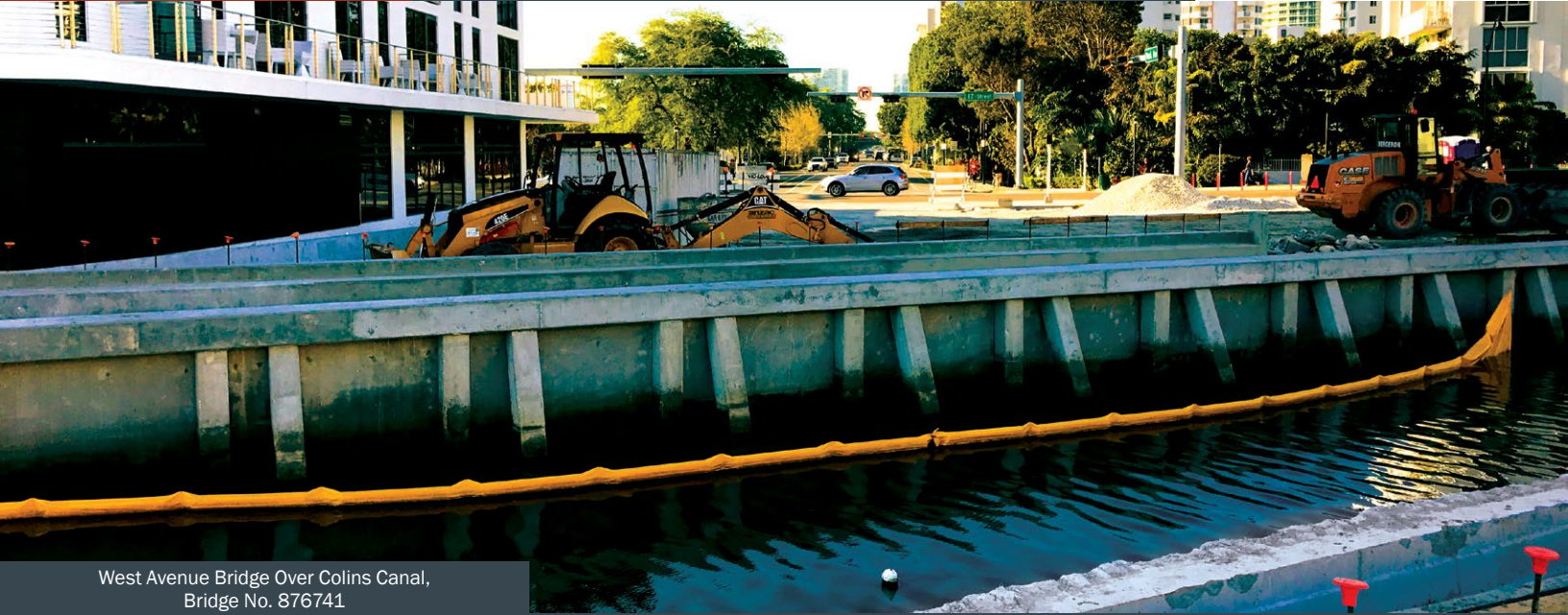


# SECTION 5

## APPROACH TO SCOPE OF WORK



CITY OF FORT LAUDERDALE



West Avenue Bridge Over Colins Canal,  
Bridge No. 876741



Existing Condition

### UNDERSTANDING THE CITY OF FORT LAUDERDALE'S NEEDS

The existing conditions of the 500' segment of the concrete Riverwalk North Seawall from the Andrews Avenue Bridge to the Ferromex (FXE)/Brightline railroad tracks require immediate repairs and replacement, which has prompted the City of Fort Lauderdale (City) to seek an experienced team of design professionals to prepare a complete and comprehensive set of construction contract documents to replace this section of the concrete Riverwalk North Seawall, as well as the adjacent concrete catwalk. The scope of work will also include the replacement and/or enhancement of

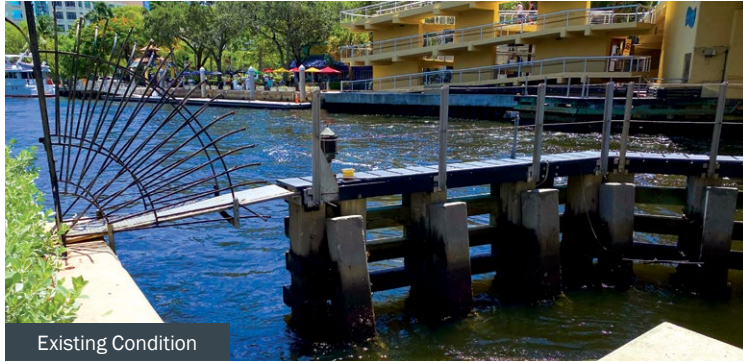
the New River walkway connected to the concrete catwalk, all lighting and electrical fixtures, and existing utilities, such as water, storm drainage, and sewer. Furthermore, there will be areas along the new seawall with floating docks, as well as fixed docks. All new seawall construction will be designed taking into consideration sea level rise, resiliency, and eliminating or minimizing impacts to natural resources, wildlife, ecosystems, local residents, nearby businesses, visiting tourists, and the overall surrounding community.

### OVERVIEW OF OUR PROPOSED VISION, IDEAS, AND METHODOLOGY

HBC will provide the City with construction contract documents for the design of a new Riverwalk North Seawall, along with a fixed pier and floating docks, for a stretch of approximately 500 feet. This new development will begin under the bascule bridge at Andrews Avenue and extend west until reaching the City's pump house, just east of the Ferromex (FXE)/Brightline railroad tracks. It is of utmost importance to design a seawall system that, while enhancing and protecting the shoreline, can be easily constructed with minimal impacts to its surroundings. Early and proactive coordination with the City, Broward County, permitting agencies, Authorities Having Jurisdiction (AHJs), Utility/Agency Owners (UAOs), and our Team of strategically selected staff and subconsultants will



be crucial to develop a set of construction documents that can be followed for the successful completion of this Project.



Existing Condition

## COORDINATION/DATA COLLECTION

As the project design phase starts, HBC will gather all available information on existing conditions within the limits of the project, such as as-built plans or drawings of the existing seawall and catwalk, existing plans of the walkway, existing underground utilities, overhead power lines, monuments, and miscellaneous items that will be affected and/or replaced during construction. As information is collected, coordination with the City and our Team of professionals will continue.

## SURVEY/HYDROGRAPHIC SURVEY

HBC's Topographic and Hydrographic Surveying Subconsultant, GPI Geospatial, Inc. (GPI), will be promptly dispatched to collect all the pertinent data required to create the topographic and hydrographic plan. This information will be essential to locate existing features, such as the seawall and its elevation, the catwalk layout and its supports, mudline elevation, and all other connected elements of this Project.

## GEOTECHNICAL SOIL BORING COLLECTION

At the same time, HBC's Geotechnical Testing and Report Subconsultant, Tierra South Florida, Inc. (TSF), will collect soil borings to gather information on existing soils, which will be needed for the development and completion of the geotechnical report. Based on this report and recommendations therein, our Structural Team will confirm the most cost-effective and constructable type of seawall for this Project. At this point, the seawall design will have all the variables needed to be completed and construction plans developed.

## ENVIRONMENTAL/PERMITTING

HBC's Environmental Permitting, Natural Resources/Species Evaluation, and Landscape Architecture Subconsultant, Chen Moore and Associates, Inc. (CMA), will initiate early and proactive coordination with city, county, state, and federal agencies and Authorities Having Jurisdiction (AHJs)

over this area to provide all the information required to obtain the permit for the seawall construction. In addition, CMA will identify the potential presence of protected natural resources at the Project site. Some of these resources will include seagrasses, corals, oyster shoals, and protected wildlife species, including manatees and sea turtles.

## CIVIL ENGINEERING/UTILITY COORDINATION

Concurrently, HBC's Civil/Drainage/Utilities professionals will determine the Utility/Agency Owners (UAOs) that will be impacted during construction. HBC's Utility Coordinators, Sonny Abia, PhD, PE and David Coker, EI, will make sure to gather all the information on all UAOs within the Project area and identify these UAOs on the construction plans. Through this coordination, the need for utility replacement and/or improvement will be established. Furthermore, the Civil Team will investigate any necessary improvements for the red paver walkway regarding pavement, drainage, lighting, and other potential miscellaneous enhancements.

## HBC'S CURRENT WORKLOAD AND COMMITMENT TO THIS PROJECT



## PROFESSIONAL PERSONNEL: AVAILABLE & READY

HBC's workload has been steadily growing since it started operations over 16 years ago. With this growth, HBC has also grown its staff and company resources in a very careful and meticulous manner. HBC is very sensible when hiring personnel. HBC always looks for highly qualified and experienced professionals with goals that are aligned with our beliefs, vision, and especially our relentless pursuit of the highest quality work, while providing the responsiveness our clients demand, deserve, and have come accustomed to receiving from us.

## ABILITY TO MANAGE MULTIPLE PROJECTS

At HBC, we have always managed multiple projects and assignments simultaneously. When we decide to pursue a



project, we carefully balance all our needs, resources, current workload, and client expectations to continue our legacy of delivering outstanding work quality on time and on budget. If we have any doubts about meeting our clients' goals, needs, or hopes, that is the time we decide to NO GO a pursuit. We only pursue projects we know we will succeed in delivering on time, within budget, and to the clients' complete satisfaction. HBC strongly believes that our success is ultimately measured by how well we meet our clients' expectations.

### APPROACH TO MANAGING CURRENT WORKLOAD

For prompt responsiveness to our clients in or near the City of Ft. Lauderdale, HBC has been working out of its Fort Lauderdale office for a few years. In addition, HBC has been working hard to develop the City of Ft. Lauderdale as one of our most important clients. At any given time, HBC manages, from just a few to as many as 30 or more, task orders in different locations and involving a variety of technical disciplines. We have been very successful delivering projects on time, within budget, and to our clients' complete satisfaction utilizing our proven project management strategy.

As a general rule, our policies and procedures dictate that our project managers need to perform the following activities:

- Identify all project stakeholders and request their requirements. Project stakeholders may include only the City Project Manager or several members of the community, Utility/Agency Owners (UAOs), and Authorities Having Jurisdiction (AHJs).
- Create a detailed project scope statement that identifies the project's goals and objectives.
- Create a work breakdown structure to map all the necessary activities and tasks.
- Detail the process by which the activities and tasks will be developed, maintained, and approved.
- Carefully select and assign personnel to execute the different activities and tasks.
- Detail and communicate the roles and responsibilities of the project team.
- Establish the process for formal acceptance of completed deliverables.
- Determine how to control and document change order requests against the scope statement.
- Create frequent project progress reports to maintain management and client current with all project information.

As a specific rule for this Project, our policies and procedures dictate that HBC's project manager, staff, and subconsultants need to adhere to the following procedures:

### Define the Scope of Work and Client Vision



- Meet with the client.
- List all project expectations, goals, and objectives.
- Define what is considered project success.

### Prepare Proposal and Formalize the Scope of Work for the Project

- Submit proposal to client and initiate the approval process.
- Implement changes, as needed or requested by client.
- Develop schedule work breakdown structure and milestones.
- Obtain client approval and endorsement.

### Start of the Work

- Conduct kickoff meeting.
- Answer all questions before starting the work.
- Establish roles, responsibilities, and communications protocol.
- Establish schedule of activities baseline.

### Priority of Project Tasks

- Understand the priority of project tasks, according to importance and deadlines.
- Implement a calendar in Primavera with deadlines, milestones, and resources.
- Actively track calendar on a daily basis and produce reports on a weekly basis.
- Proactively anticipate and mitigate schedule slippage risks.

### Schedule Tracking

- Track all project tasks, activities, milestones, deadlines, and resources allocation on a daily basis.
- Provide weekly reporting.

## Allocate Resources Between Active Projects

- Allocate resources, according to needs and specialties.
- Ensure staff is never idle. Anticipate resources needs and act on information.
- Allocate team members and resources, as needed, to ensure goals and objectives are met.

## Work Assignment

- We have leaders and managers. Our leaders provide the vision and inspiration, as well as boost morale. Our managers ensure policies and procedures are followed.
- Our leaders challenge our managers to keep project quality high.
- Workload assignment is taken seriously to properly balance staff workload and maximize quality, while minimizing risk.

## Progress Reporting

- Monitor work progress on a daily basis.
- Provide reporting on a weekly basis.
- Project manager will enforce schedule corrections as often as necessary.

## Client Feedback

- The HBC Team's project manager will always be in close contact with the City project manager to ensure expectations are being met.
- The client will always be kept informed of the progress of our tasks and activities.
- We will continue to interact with the client to ensure all project expectations, goals, and objectives are fully met.

## HBC'S CURRENT STRUCTURES GROUP WORKLOAD

Following is a list of HBC's current Structures Group workload:



**FDOT District 4 | SR 7 Transit Corridor Improvements:** Responsibilities include cantilever wall design and construction plans. This project is currently at 60% completion and is anticipated to be completed by March 2023.



**FDOT District 6 | Districtwide Contract:** Responsibilities include the design of miscellaneous structures. It is anticipated to be completed by December 2023.

**Palm Beach County | Boca Rio Road Widening:** Responsibilities include the design of miscellaneous structures, including strain pole/span wire traffic signal support structures and the design of several bridge culverts. This project has not started yet. Its completion date is estimated to be July 2023.

**Florida's Turnpike Enterprise (FTE) | Design-Build for Wrong-Way Vehicle Detection System (WWVDS) Implementation:** This project involves the implementation of WWVDS along Florida's Turnpike ramps in Miami-Dade, Broward, and Palm Beach Counties. Responsibilities include the design of miscellaneous structures. This project is anticipated to be completed by September 2023.

**FDOT District 4 | University Drive from Nova Drive to SR-84:** Responsibilities include the design of miscellaneous structures. It is anticipated to be completed by December 2023.

## HBC'S RESOURCES

## HBC'S OFFICE LOCATIONS



HBC acknowledges the necessity of providing an office in each county of Southeast Florida's tri-county region, which consists of Miami-Dade County, Broward County, and Palm Beach County. These strategically placed offices offer



accessibility and convenience to a large concentration of public and private sector clients on Florida's Gold Coast. HBC currently has a Miami-Dade County main office located at 8935 NW 35th Lane, Suite 201, Doral, FL 33172 with phone number (305) 232-7932. HBC also has a Broward County branch office located at 5200 NW 33rd Avenue, Suite 211, Fort Lauderdale, FL 33309 with phone number **(954) 519-2199**. In addition, HBC has a Palm Beach County branch office located at 123 NW 13th Street, Suite 308, Boca Raton, FL 33432 with phone number **(561) 899-4438**.

### HBC'S STAFF



HBC currently has 43 staff members, including professional engineers with extensive experience successfully executing comprehensive services for a wide variety of civil engineering disciplines including, but not limited to, transportation, traffic, structural, mechanical, electrical, water and wastewater infrastructure, civil/site development, planning, design, project management, construction management, and Construction Engineering and Inspection (CEI).

### HBC'S COMPANY FLEET VEHICLES



HBC currently has six (6) company fleet vehicles consisting of two (2) 2022 Toyota Tacoma pickup trucks, one (1) 2018 Toyota Highlander Sport Utility Vehicle (SUV), one (1) 2018 Toyota Tacoma pickup truck, one (1) 2012 Ford F-150 pickup truck, and one (1) 2008 Ford F-150 pickup truck.

### HBC'S DRONES



HBC currently has two (2) professional drones consisting of one (1) Yuneec Typhoon H Plus Hexacopter and one (1) Yuneec Typhoon H Hexacopter. In addition, HBC has the latest digital cameras and SD cards to photograph and document projects, sites, structures, existing conditions, and critical issues.

### HBC'S TECHNOLOGICAL RESOURCES

Since state-of-the-art technology is critical for maintaining a competitive edge in today's technically advanced engineering industry, HBC has the latest smart phones loaded with applications that facilitate and accelerate communication. Similarly, HBC has the latest tablets, laptops, and desktops containing the most recent computer software programs, including Adobe Pro, AGi32, ASAD, AUTOCAD, AUTODESK Infrastructure Design Suite, AUTOTURN, BENTLEY MicroStation CONNECT Edition and SS10, Bluebeam REVU, ChaosGroup-VRAY, CorelDraw, Culver Service Life Estimator, Google Earth Pro, Guidesign, ICPR, JAMAR PetraPro V2, JAMAR TaxPro V2, Microsoft Office 365, Oracle Primavera P6 Professional, QGIS, SAGE, Synchro 10, and Vissim 2021.

### HBC'S TOOLS & EQUIPMENT

HBC has all the tools and equipment necessary to perform all its respective professional civil engineering services. For example, HBC has toolboxes filled with pliers, vise grip pliers, wrenches, Allen wrenches, socket wrench sets, wire strippers, box cutters, cutting shears, flat-head and Phillips head screwdrivers, hammers, sledgehammers, tape measures, rulers, torpedo levels, signaling flashlights, masking tape, electrical tape, wire connectors, Gorilla tape, reflective tape, cable ties, chains, and WD-40 spray. HBC also has one (1) Black and Decker cordless drill and charger, five (5) Lufkin measuring wheels, two (2) Empire Smart Levels, one (1) Hyper Tough standing light, one (1) 2-gallon gasoline canister. In addition, HBC has three (3) walkie talkies with charges, twenty (20) Miovision Scout pole-mounted traffic



data collection cameras, eight (8) JAMAR Trax Apollyon tube traffic counters, two (2) JAMAR TDC Ultra Traffic Data Collectors, and one (1) Bushnell Speed Gun. In an effort to promote and ensure safety, HBC has hard hats, neon yellow reflective safety vests, traffic cones, traffic flags, gloves, ear plugs, and safety goggles.

### PROPOSED SCHEDULE

Our Team of professionals is ready and available to begin working on this Project. During the next few weeks, some of our current projects will be near completion. This will allow our Team members to fully commit their time to the City's

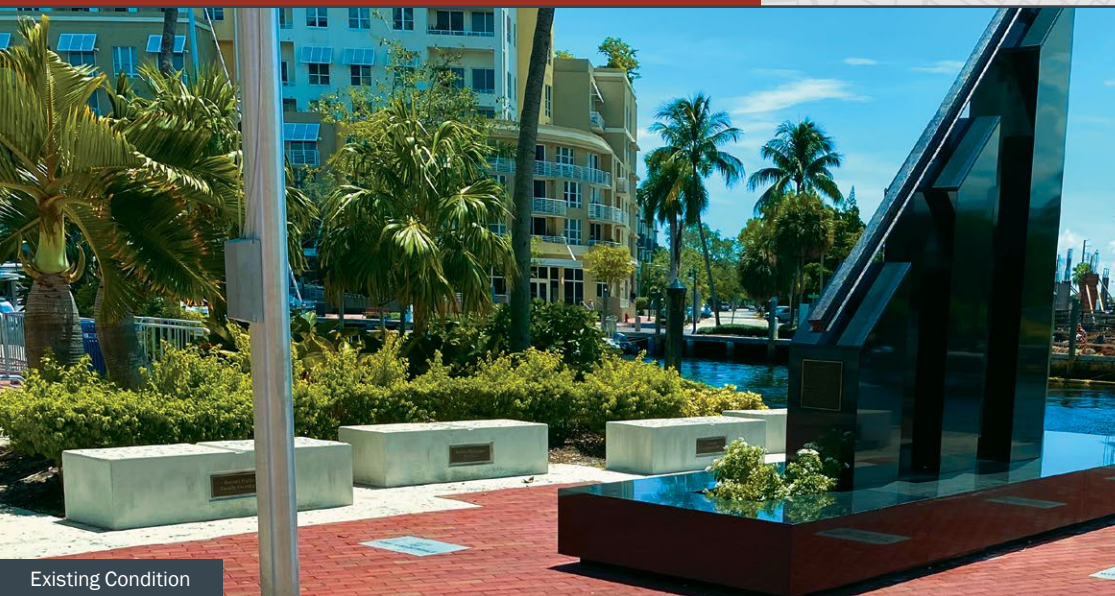
Riverwalk North Seawall Replacement (P11722) Project. Other projects on our agenda will not start for another few months. Furthermore, we have coordinated with our subconsultants regarding their availability, and confirmed their commitment to this Project. To fulfill the City's needs, HBC has strategically selected highly qualified and experienced subconsultants and staff members that are committed to the successful delivery of this Project on time and within budget.

Based on our experience with this type of seawall projects, contract plans can be completed within four to six months. The following is a tentative schedule for the completion of this project.



### PROPOSED SCHEDULE

	Completion Date
Estimated <b>Notice to Proceed</b>	<b>January 3<sup>rd</sup>, 2023</b>
Survey and Hydrographic Survey	<b>January 20<sup>th</sup>, 2023</b>
Geotechnical – Soil Borings	<b>January 20<sup>th</sup>, 2023</b>
Environmental/Permitting	<b>Ongoing</b>
<b>30% Contract Plans Design Phase Deliverable</b>	<b>Completion Date</b>
<b>30%</b> Contract Plans to Army Corps of Engineers	<b>February 24<sup>th</sup>, 2023</b>
City Plans Review	<b>March 17<sup>th</sup>, 2023</b>
<b>Geotechnical Report Submittal Deliverable</b>	<b>Completion Date</b>
Geotechnical Report Submittal	<b>March 31<sup>st</sup>, 2023</b>
<b>90% Contract Plans Design Phase Deliverable</b>	<b>Completion Date</b>
<b>90%</b> Contract Plans to Army Corps of Engineers	<b>May 26<sup>th</sup>, 2023</b>
City Plans Review	<b>June 16<sup>th</sup>, 2023</b>
Public Outreach Presentation	<b>June 23<sup>rd</sup>, 2023</b>
<b>100% Contract Plans Design Phase Deliverable</b>	<b>Completion Date</b>
<b>100%</b> Contract Plans to Army Corps of Engineers	<b>June 30<sup>th</sup>, 2023</b>
City Plans Review	<b>July 14<sup>th</sup>, 2023</b>
<b>Final Signed and Sealed Contract Plans Documents Deliverable</b>	<b>Completion Date</b>
Final Signed and Sealed Contract Plans Documents Submittal	<b>July 31<sup>st</sup>, 2024</b>
<b>Project Duration</b>	<b>28 Weeks</b>



## DESIGN CONSIDERATIONS

This City of Fort Lauderdale Riverwalk North Seawall Replacement (P11722) Project is located in the heart of Fort Lauderdale's downtown area within the Riverwalk Arts & Entertainment (A&E) District, which is Broward County's most popular destination for local residents, visitors, and tourists interested in experiencing diverse options for the enjoyment of recreational activities, exercise, arts and entertainment, shopping, dining, people watching, and nightlife.

## UNDERSTANDING RIVERWALK

Riverwalk is a linear park with 10 parks and a shared-use walkway along the New Rive consisting of wide areas with brick pavers, hardscape and landscape features, and several amenities for pedestrians and bicyclists, including exercise stations and rentals for the enjoyment of various recreational activities. The Riverwalk is flanked by the New River on the south side and by art galleries, retail stores, dining and entertainment establishments, and condominiums on the north side. We will coordinate with all stakeholders, such as Riverwalk Trust, Downtown Development Authority, Broward Center for the Performing Arts, Riverwalk A&E District Consortium, Riverwalk Fort Lauderdale, and local area associations, businesses, and organizations.

## HBC'S APPROACH

Our design will consider special events at Riverwalk throughout the year and will restrict construction operations during these dates. Impacts to the walkway will be incidental to the seawall replacement and will be minimized to the maximum extent possible to maintain the regular operations of all businesses and enjoyment of all patrons of the area. As a lesson learned from past similar projects, the contractor will be required to salvage any brick paver that needs to be

removed, so that it can be reused to save costs and avoid differences in color.

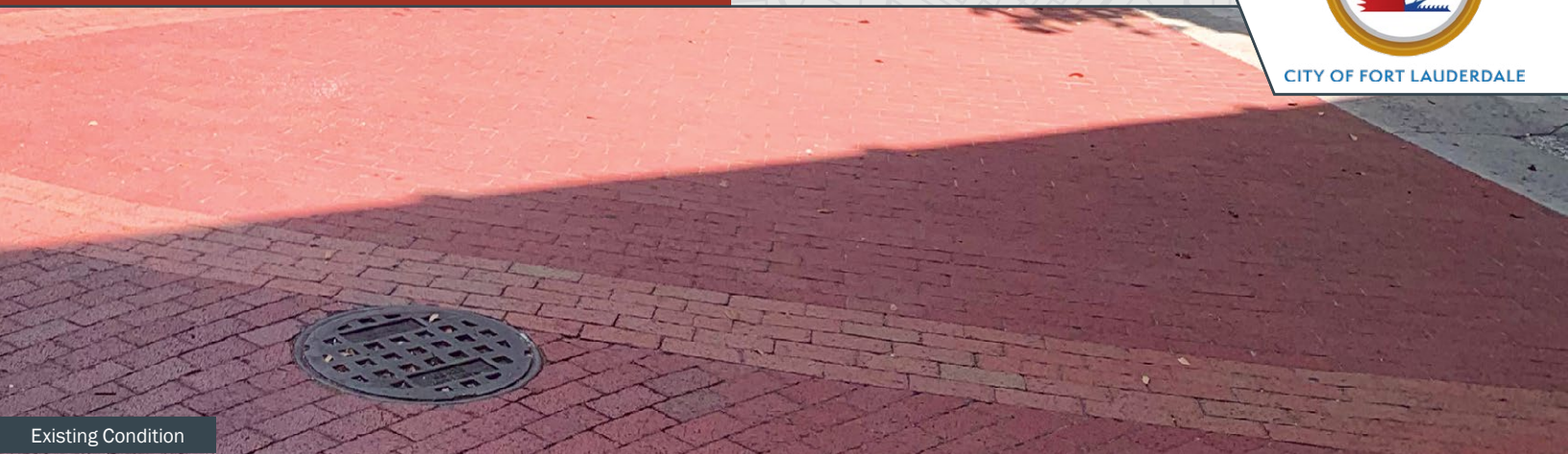
## THE 911 EXISTING MONUMENT

The existing Riverwalk 911 Monument is in very close proximity to the proposed demolition and construction activities. Therefore, in order to ensure that the Riverwalk 911 Monument is preserved in its existing condition and not impacted by the demolition of the concrete catwalk and construction of the proposed seawall, fixed docks, floating docks, and amenities including electrical shore-tie pedestals and pier lighting fixtures, we will coordinate with the City of Fort Lauderdale and Broward County for agreement on a feasible and cost-effective solution to this critical issue. The temporary relocation of the Riverwalk 911 Monument to a safe location during demolition and construction activities is one option that will assure it is not impacted by said activities.

## MAINTENANCE OF TRAFFIC (MOT)

Our Team's approach to Maintenance of Traffic (MOT) is to design a robust Temporary Traffic Control Plan (TTCP) that focuses on providing safe and efficient work zones, while maintaining pedestrian and bicyclist traffic and minimizing impacts to businesses, local residents, visitors, and tourists. During the design, we will coordinate with the City of Fort Lauderdale and local stakeholders for consensus on the proposed MOT approach. Our TTCP will ensure an accessible ADA-compliant pedestrian walkway. Signs directing pedestrians and bicyclists along the walkway and pedestrian Longitudinal Channelizing Devices (LCDs) will be provided to ensure a safe route for pedestrians and bicyclists during construction. Standard Plans 102-660, supplemented with pedestrian detour plans illustrating the work, will be used to safely accommodate pedestrian and bicyclist traffic along the work zone limits.





Existing Condition

## DRAINAGE DESIGN CONSIDERATION

From our field visit and the existing record drawings and documents we researched, it was found that the current drainage system near the existing Riverwalk North Seawall consists of French drains, inlets, solid pipes, gravity wells, and an outfall for overflow discharge to the New River Canal.

A portion of the existing system was constructed over 20 years ago, connecting to the existing system and outfall at the time, as part of a development north of the seawall.

## HBC'S ANALYSIS & DESIGN APPROACH

As an initial approach to the improvements of the existing stormwater facilities under this Riverwalk North Seawall Replacement Project, the proposed work along the existing concrete Riverwalk North Seawall will require the adjustment of the existing outfall, to allow for the new seawall structure to be constructed. A temporary outfall will be provided during construction. Subsequently, after we perform our drainage analysis and modeling using specialized computer software programs such as Hydrologic Engineering Centers River Analysis System (HEC-RAS) and Interconnected Channel and Pond Routing (ICPR) Model, a potentially better location for the outfall will be established. Moreover, some existing drainage inlets located within the work area might be affected during construction and might be modified or replaced. Coordination with the South Florida Water Management District (SFWMD) will be required for an Environmental Resource Permit (ERP), pursuant to Florida Statutes, or Rule 62-330.051(5)(d) of the Florida Administrative Code. The existing Riverwalk North Seawall serves as a docking facility, which is located on state-owned Sovereign Submerged Lands (SSL). The activities are authorized under an existing SSL lease found in the Board of Trustees (BOT) File No. 060024586. Furthermore, coordination for the Section 408 Program with the Florida Department of Environmental Protection (FDEP) for the United

States Army Corps of Engineers (USACE) will be necessary, due to the Project location and type of work to be developed.

## EXISTING DRAINAGE CONDITIONS

Historically, no general ponding issues appear to occur, but some areas adjacent to the Project show depression and settlement as a result of apparent subsurface deficiencies. This condition is allowing some of the stormwater flow to travel to the subsurface, increasing the potential for greater structural and drainage issues. HBC's Team will analyze the conditions of the existing systems and network to determine if a new location for some of the stormwater facilities is necessary. Because of the aging of the system, the two existing drainage wells will likely need redevelopment and their associated structures will be analyzed for further improvements. With the proposed improvements along the seawall, adjacent walkway areas, and drainage system, the runoff water will be properly conveyed to the French drains and wells, as the system is intended.

## POLLUTION PREVENTION

As a standard requirement, the existing drainage inlets within the Project area will be protected from pollution during construction. HBC will develop and enforce an effective Stormwater Pollution Prevention Plan (SWPPP) to ensure that stormwater is not polluted by construction activities. The HBC Team also recommends a desiltation of the existing system, in addition to the improvements to the existing facilities, to improve the stormwater capacity.

## COORDINATION WITH CITY

The HBC Team will contact the City of Fort Lauderdale and Broward County at the very early stages of the Project for any other concerns or planned improvements adjacent to the Riverwalk area that may impact the existing conditions of the drainage system and may require coordination during design or construction.



# SECTION 6

## REFERENCES

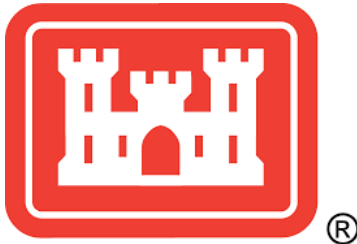


CITY OF FORT LAUDERDALE



Crandon Park Marina Boat Ramp Repairs

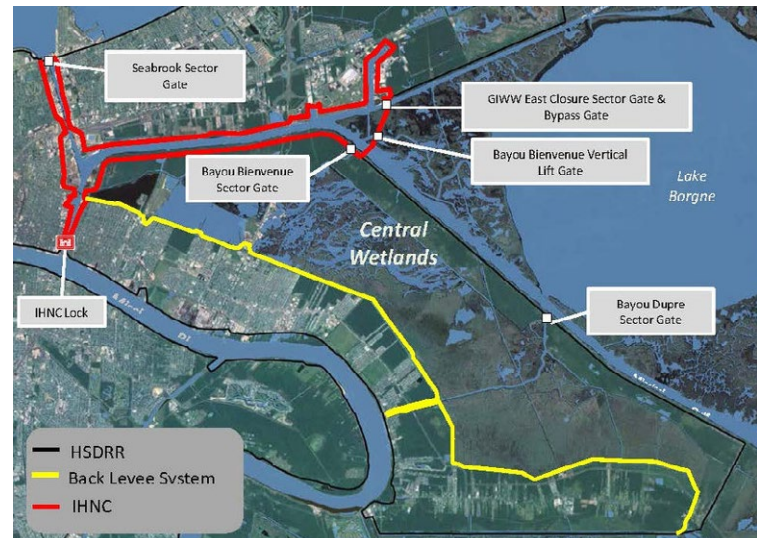
### HBC REFERENCE 1: Roberto Rubio, MS, PE



**Client Name:** United States Army Corps of Engineers  
**Address:** 7400 Leake Ave,  
New Orleans, LA 70118  
**Contact Person:** Victor Zillmer  
**Telephone:** (903) 520-8749  
**E-mail:** victor@zillmerfarms.com  
**Completion Date:** 2013  
**Construction Cost Est.:** \$800 Million  
**Construction Cost Act.:** \$1.3 Billion

### DESCRIPTION OF WORK:

#### City of New Orleans Hurricane Risk Reduction Project



Lead engineer for the design of the pivot structure for the new 150 ft long by pass floating gate or swing gate at the Gulf Intracoastal Waterway (GIWW). The gate is located within the new 1.8 mile long surge barrier built after hurricane Katrina. Design of reinforced concrete pivot column and structural steel pivot arm, equipped with built-in mechanisms to allow all 6 nautical movements of the floating gate, before is locked in

the on or open position. Design of connection/anchorage of pivot arm to floating gate. Design of various ancillary structures including: piers for support of the gate in the open position, temporary fixed gate, temporary dock for remote concrete batch plant, concrete and steel staircases, ladders, and platforms. Specifications package. QC of massive reinforced concrete foundation mat or cap above 300 plus prestressed concrete piles to support the gate in the closed position, and design of the precast concrete floating swing gate with multiple partitions to progressively water ballast the gate in the closed or open position supports.

### HBC REFERENCE 2: Roberto Rubio, MS, PE



**Client Name:** Monroe County, Florida  
**Address:** 1100 Simonton St., Room 2-216  
 Key West, FL 33040  
**Contact Person:** Steve Sanders  
**Telephone:** (305) 295-4338  
**E-mail:** sanders-steven@monroecounty-fl.gov  
**Completion Date:** 2019  
**Construction Cost Est.:** \$1.5 Million  
**Construction Cost Act.:** \$2 Million

### DESCRIPTION OF WORK:

#### On Call Professional Engineering Services

Design, Rehabilitation and Repairs of timber boat docks and reinforced concrete boat ramps across the Florida Keys. Included geometric design and attachment of articulating block mats to prevent canal bed erosion due to boat propellers. Included design and selection of aluminum ladders, mooring piles, fenders, and cleats.

- Big Pine Key, emergency services boat dock reconstruction, existing pile capacity assesment, access ramp, rubble rip rap slope protection, and fencing
- Big Pine Key, structural design of new architectural welcome signs at the north and south ends
- Harry Harris Beach and Park, Tavernier Key, boat dock and boat ramps reconstruction

- Little Torch Key, boat docks reconstruction and reinf. concrete boat ramp repairs
- Big Coppitt Key new reinforced concrete finger pier and concrete boat ramp repairs

### HBC REFERENCE 3: Miguel Villegas, PE



**Client Name:** Ft. Pierce, Florida  
**Address:** 100 N. U.S. Highway 1  
 P.O. Box 1480  
 Fort Piece, FL 34950  
**Contact Person:** Jack Andrews, PE  
**Telephone:** (772) 467-3773  
**E-mail:** Jandrews@city-ftpiece.com  
**Completion Date:** 2018  
**Construction Cost Est.:** \$1.2 Million  
**Construction Cost Act.:** \$1.35 Million

### DESCRIPTION OF WORK:

#### H.D. King Seawall Replacement



This project consisted of designing of a total of 1000 LF of concrete seawall to replace existing on both sides of Moore's Creek Canal.



**HBC REFERENCE 4:** Miguel Villegas, PE

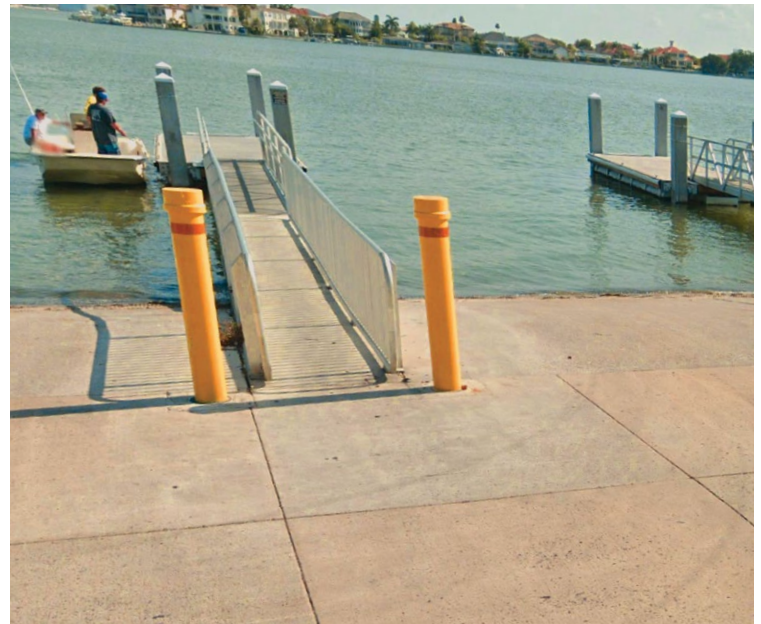
**Client Name:** Naples Streets and Stormwater Dept.  
**Address:** 295 Riverside Circle  
 Naples, Florida 34102  
**Contact Person:** Greg Strakaluse, PE  
**Telephone:** (239) 213-5000  
**E-mail:** gstrakaluse@naplesgov.com  
**Completion Date:** 2018  
**Construction Cost Est.:** \$2.8 Million  
**Construction Cost Act.:** \$3 Million

**DESCRIPTION OF WORK:****Gordon River Connector Bridge and Boardwalks**

This project consisted of designing a three span prestressed concrete bridge over Gordon river. In addition, IPE wood boardwalks were designed at bridge approaches in highly sensitive protected mangrove areas. Both boardwalks and bridge had LED lighting along stainless steel railing.

**HBC REFERENCE 5:** Miguel Villegas, PE

**Client Name:** Pinellas County  
**Address:** 14 South Fort Harrison Ave.  
 Clearwater, FL  
**Contact Person:** Tim Clark  
**Telephone:** (727) 464-4408  
**Completion Date:** 2018  
**Construction Cost Est.:** \$1.5 Million  
**Construction Cost Act.:** \$1.6 Million

**DESCRIPTION OF WORK:****Belleair Ramp Courtesy Dock Facility Reconstruction**

This project consisted of the design of a fixed pile supported concrete pier and the reconstruction of a system of floating platforms. These new platforms were custom designed to be installed through existing concrete piles.



# SECTION 7

City of Fort Lauderdale

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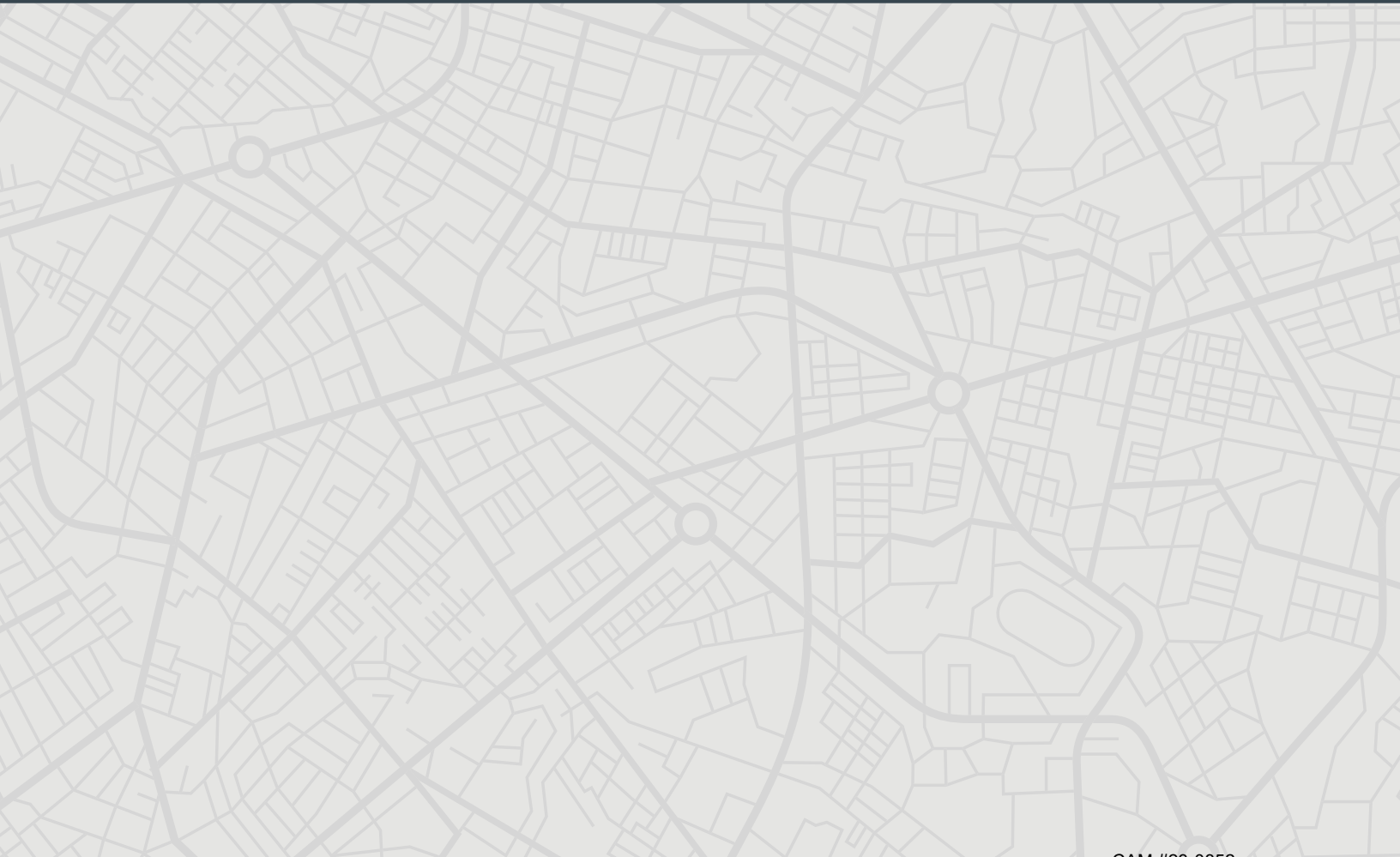
## MINORITY/ WOMEN (M/WBE) PARTICIPATION



CITY OF FORT LAUDERDALE



Crandon Park Marina Boat Ramp Repairs



State of Florida  
Minority Business Certification

HBC ENGINEERING COMPANY

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
01/19/2021 to 01/19/2023

  
Jonathan R. Satter, Secretary  
Florida Department of Management Services



Office of Supplier Diversity  
4050 Esplanade Way, Suite 380  
Tallahassee, FL 32399  
850-487-0915  
www.dms.myflorida.com/osd

State of Florida  
Minority Business Certification

Tierra South Florida, Inc.

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
09/17/2021 to 09/17/2023

  
Jonathan R. Satter, Secretary  
Florida Department of Management Services

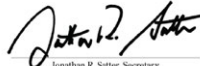


Office of Supplier Diversity  
4050 Esplanade Way, Suite 380  
Tallahassee, FL 32399  
850-487-0915  
www.dms.myflorida.com/osd

State of Florida  
Minority Business Certification

Milian, Swain & Associates, Inc.

Is certified under the provisions of  
287 and 295.187, Florida Statutes, for a period from:  
12/21/2020 to 12/21/2022

  
Jonathan R. Satter, Secretary  
Florida Department of Management Services



Office of Supplier Diversity  
4050 Esplanade Way, Suite 380  
Tallahassee, FL 32399  
850-487-0915  
www.dms.myflorida.com/osd



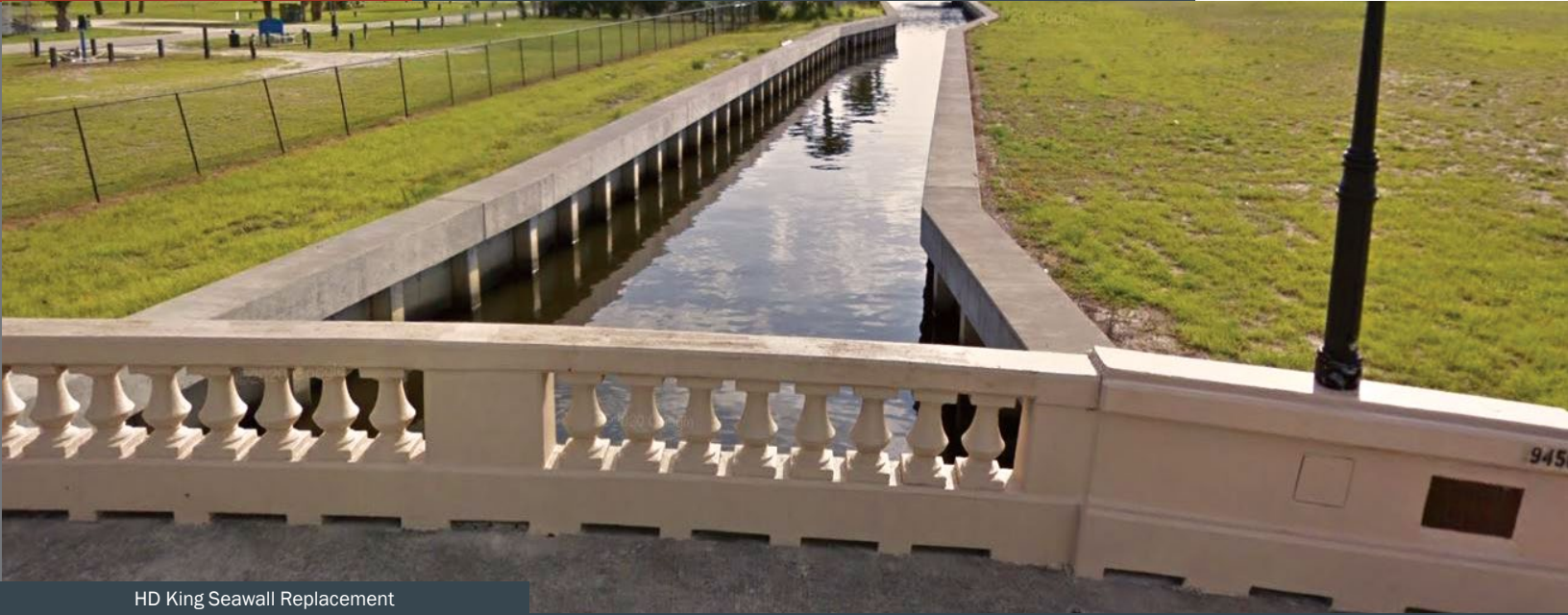
## SECTION

## 8

## SUB-CONSULTANTS



CITY OF FORT LAUDERDALE



HD King Seawall Replacement

**TIERRA SOUTH FLORIDA, INC. (TSF)**

**TSF is a State of Florida certified  
Minority Business Enterprise (MBE).**

**Tierra South Florida, Inc. will provide  
the City with the Geotechnical Testing and  
Report services required for this Project.**



HBC has selected **Tierra South Florida, Inc. (TSF)** to provide the City of Fort Lauderdale with the Geotechnical Testing and Report services required for this Project. TSF is a State of Florida certified Minority Business Enterprise (MBE) and long-time HBC partner that has consistently provided effective and efficient geotechnical services on numerous and diverse projects. TSF is a full-service

consulting geotechnical engineering, construction materials testing, and inspections firm with the capability to provide test borings, engineering analyses and reports, AutoCAD and MicroStation plan sheets, laboratory soils testing, and Construction Engineering Inspection (CEI) services. TSF's President, **Raj Krishnasamy, MS, PE**, has over 35 years of experience, works out of TSF's main office in West Palm Beach, and will serve the role of *Geotechnical Engineer*. **Kumar Vedula, PE**, has over 26 years of experience, works out of TSF's main office in West Palm Beach, and will serve the role of *Geotechnical Engineer*.

**CHEN MOORE AND ASSOCIATES, INC. (CMA)**

**Chen Moore and Associates, Inc. will provide  
the City with the Environmental Permitting, Natural  
Resources/Species Evaluation, and Landscape  
Architecture services required for this Project.**



HBC has selected **Chen Moore and Associates, Inc.** to provide the City of Fort Lauderdale with the Environmental



Permitting, Natural Resources/Species Evaluation, and Landscape Architecture services required for this Project. CMA is a multidisciplinary firm with several branch offices throughout Florida and a main office in Fort Lauderdale that specializes in civil engineering, water resources, water and sewer, landscape architecture, irrigation, electrical engineering, transportation, planning, environmental engineering, and construction administrative services. **Brian Voelker, MS, SPWS, CA, CLI**, has over 25 years of experience, works out of CMA's main office in Fort Lauderdale, and will provide the *Environmental Permitting services*. **Daniel E. Davila, PE**, has over 23 years of experience, works out of CMA's main office in Fort Lauderdale, and will provide the *Environmental Permitting services*. **Cristobal Betancourt, PLA, AICP**, has over 27 years of experience, works out of CMA's main office in Fort Lauderdale, and will serve the role of *Landscape Architect*. **Eric Harrison, PLA**, has over 19 years of experience, works out of CMA's main office in Fort Lauderdale, and will serve the role of *Landscape Architect*.

### MILIAN, SWAIN & ASSOCIATES, INC. (MSA)



**MSA is a State of Florida certified Minority Business Enterprise (MBE).**

**Millian, Swain & Associates, Inc. will provide the City with the Sea Level Rise expertise required for this Project.**

**MSA**

Millian, Swain & Associates, Inc.

HBC has selected **Millian, Swain & Associates, Inc.** to provide the City of Fort Lauderdale with the Sea Level Rise expertise required for this Project. MSA is a State of Florida certified Minority Business Enterprise (MBE) with a diverse workforce and a proven commitment to affirmative action. MSA is a multidisciplinary firm established in Miami-Dade County in 1989 that specializes in civil and environmental engineering. MSA's principals and staff recognize the threat Sea Level Rise poses to low-lying coastal areas and have been working towards remediation diligently. MSA's President, **Arsenio Millian, MS, PE**, has over 50 years of experience as a Civil Engineer, works out of MSA's main office in Miami, and will serve the role of expert *Sea Level Rise consultant*. Arsenio is a former board member of the

South Florida Water Management District (SFWMD) and was an appointed participant in the Sea Level Rise Task Force of Miami-Dade County. Arsenio will provide his expertise in selecting effective adaptation measures to mitigate the hazards and risks posed by Sea Level Rise and progressive flooding on low-lying coastal areas like the City of Fort Lauderdale. **Michael Landrum, REM**, has over 39 years of experience as an Environmental Scientist, works out of MSA's main office in Miami, and will serve the role of *Sea Level Rise consultant*. **Gabriel Millian, MS, PE, ENV SP, LEED Green Associate**, has over 20 years of experience as a Civil and Environmental Engineer, works out of MSA's main office in Miami, and will serve the role of *Sea Level Rise consultant*.

### GPI GEOSPATIAL, INC. (GPI)

**GPI Geospatial, Inc. will provide the City with the Topographic and Hydrographic Surveying services required for this Project.**

HBC has selected **GPI Geospatial, Inc.** to provide the City of Fort Lauderdale with the Topographic and Hydrographic Surveying services required for this Project. GPI is a long-time HBC partner with numerous offices throughout the United States of America that has established itself as a premier provider of geospatial solutions for over 47 years. GPI's mission is to map the foundation for infrastructure improvements that enhance the connectivity between people and communities. It is GPI's vision to be the most trusted provider of precision mapping, imagery, Light Detection and Ranging (LiDAR), and surveying services within the transportation, planning, design, construction, and government communities. **Julio Delgado, PSM**, has over 25 years of experience, works out of GPI's branch office in Doral, and will serve the role of *Professional Surveyor and Mapper (PSM)*. **Frank Paruas, PSM**, has over 22 years of experience, works out of GPI's branch office in Doral, and will serve the role of *Professional Surveyor and Mapper (PSM)*.

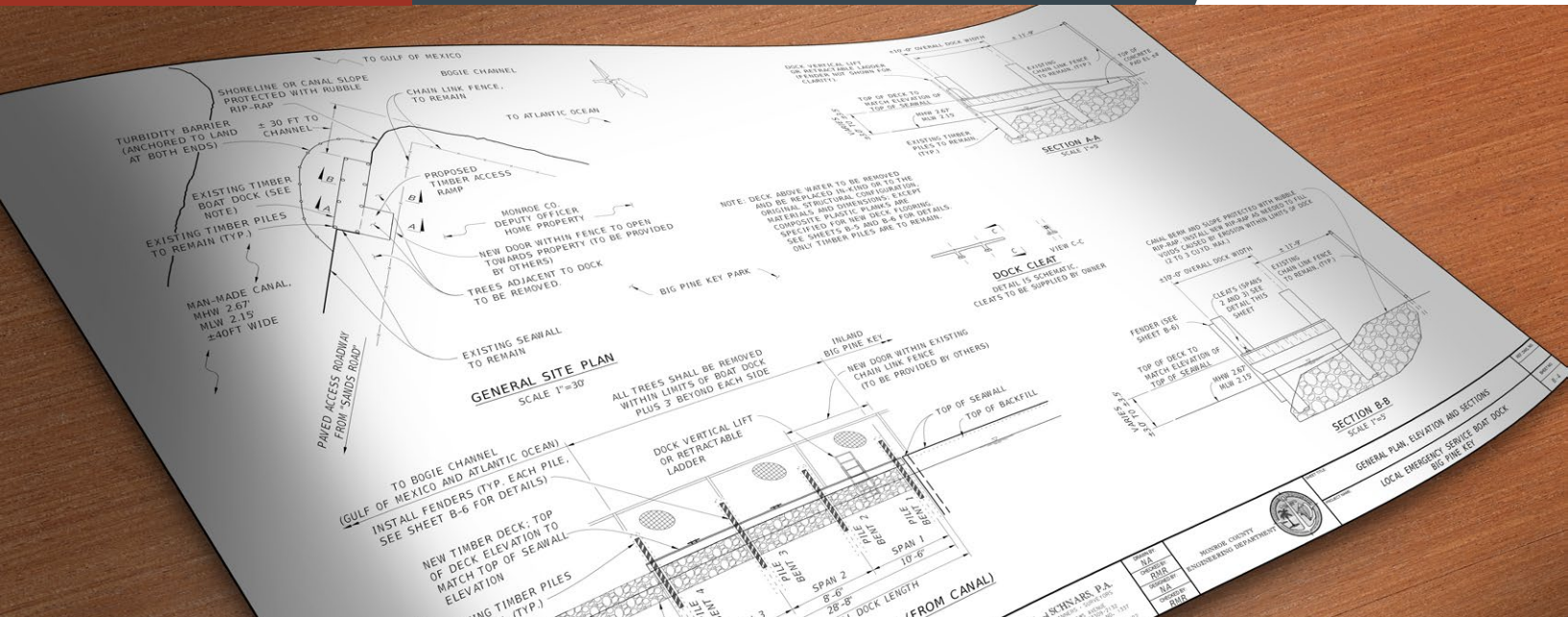


# SECTION 9

## REQUIRED FORMS & OTHER DOCUMENTS



CITY OF FORT LAUDERDALE





## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/14/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> <b>Ames &amp; Gough</b> <b>8300 Greensboro Drive</b> <b>Suite 980</b> <b>McLean, VA 22102</b>	<b>CONTACT NAME:</b> <b>PHONE (A/C, No, Ext): (703) 827-2277</b>		<b>FAX (A/C, No): (703) 827-2279</b>
	<b>E-MAIL ADDRESS: admin@amesgough.com</b>		
<b>INSURER(S) AFFORDING COVERAGE</b>			<b>NAIC #</b>
<b>INSURED</b> <b>HBC Engineering Company</b> <b>8935 NW 35th Ln</b> <b>Suite 201</b> <b>Doral, FL 33172</b>	<b>INSURER A : Hartford Underwriters Insurance Company A+ (XV)</b>		<b>30104</b>
	<b>INSURER B : Nutmeg Insurance Company</b>		<b>39608</b>
	<b>INSURER C : Hartford Casualty Insurance Company A+ (XV)</b>		<b>29424</b>
	<b>INSURER D : Scottsdale Insurance Company</b>		<b>41297</b>
	<b>INSURER E :</b>		
<b>INSURER F :</b>			

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			42SBUAR1PX5	2/21/2022	2/21/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
B	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			42UEGAE9618	2/21/2022	2/21/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			42SBUAR1PX5	2/21/2022	2/21/2023	EACH OCCURRENCE \$ 3,000,000 AGGREGATE \$ 3,000,000
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y / N N	N / A	42WEGAR1R60	2/21/2022	2/21/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional Liab.			PZS0000050	2/21/2022	2/21/2023	Per Claim 1,000,000
D	Professional Liabili			PZS0000050	2/21/2022	2/21/2023	Aggregate 4,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

## CERTIFICATE HOLDER

## CANCELLATION


EVIDENCE OF COVERAGE

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE








**CITY OF FORT LAUDERDALE BUSINESS TAX YEAR 2021-2022**

**Business Tax Division**  
700 NW 19TH AVE. | FORT LAUDERDALE, FL 33311 | (954) 828 - 5195



**Business ID:** BL-1803157

**Business Name:** COKER,ADEBAYO

**Business Address:** 5200 NW 33 AVE #211

COKER,ADEBAYO  
8935 NW 35 LN # 201  
DORAL FL 33172

---

**TAX CATEGORIES**  
408800 ENGINEER

---

**Contact:** COKER,ADEBAYO  
**Business Email:** Acoker@Hbcengineeringco.Com

- This Receipt is issued for the period commencing October 1st and ending September 30th of the years shown above.
- If you have closed or moved out of the city, please email [businesstax@fortlauderdale.gov](mailto:businesstax@fortlauderdale.gov) and include the Business ID #.
- A transfer of business location within city limits is subject to zoning approval. Complete a Business Tax Transfer Application online to obtain the necessary approval. A transfer fee of 10% of the Business Tax fee applies, not less than \$3.00, no more than \$25.00.
- If you have sold your business, please email a copy of the Bill of Sale to [businesstax@fortlauderdale.gov](mailto:businesstax@fortlauderdale.gov) and include the Business ID #. A transfer of ownership will incur a transfer fee of 10% of the Business Tax fee, not less than \$3.00, no more than \$25.00.

Please be advised that this issuance of a Business Tax Receipt establishes that the business you intend to conduct is a use permitted by the City Zoning Code for the location at which you intend to operate. The issuance of a Business Tax Receipt in no way certifies that the property located at this address is in compliance with other provisions of the City Code of Ordinances.

700 NW 19TH AVE.  
Fort Lauderdale, FL 33311  
TEL 954 828 5195  
WWW.FORTLAUDERDALE.GOV

# Disadvantaged Business Enterprise Preference Certification

City of Fort Lauderdale



CITY OF FORT LAUDERDALE



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

March 15, 2022

Adebayo Coker  
HBC Engineering Company DBA N/A  
8935 NW 35th Lane, Ste. 201  
Doral, FL 33172

**Approval Date:** March 9, 2022 - Disadvantaged Business Enterprise (DBE)  
**Anniversary Date:** May 31, 2023

Dear Adebayo Coker,

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

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

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

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

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

Sincerely,

Jeanise Cummings-Labossiere  
Section Chief, Small Business Development

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

NAICS 541330: ENGINEERING SERVICES

**NON-COLLUSION STATEMENT:**

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

**Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.**

**NAME****RELATIONSHIPS**



**In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.**

  
 Authorized Signature

President  
 Title

Adebayo Coker, PE  
 Name (Printed)

09-06-2022  
 Date



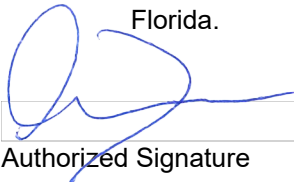
**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH  
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").
2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

  
Authorized Signature

Adebayo Coker, PE, President  
Print Name and Title

09-06-2022

Date

**E-VERIFY AFFIRMATION STATEMENT**

RFP/Bid /Contract No: 12716-626

Consultant Services for Riverwalk North  
Seawall Replacement (P11722)

Project Description:

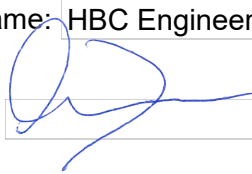
Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- (a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- (b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: HBC Engineering Company

Authorized Company Person's Signature:



Authorized Company Person's Title: Adebayo Coker, PE, President

Date: 09-06-2022

9/15/2020

## CONTRACT PAYMENT METHOD

The City of Fort Lauderdale has implemented a Procurement Card (P-Card) program which changes how payments are remitted to its vendors. The City has transitioned from traditional paper checks to credit card payments via MasterCard or Visa as part of this program.

This allows you as a vendor of the City of Fort Lauderdale to receive your payments fast and safely. No more waiting for checks to be printed and mailed.

In accordance with the contract, payments on this contract will be made utilizing the City's P-Card (MasterCard or Visa). Accordingly, bidders must presently have the ability to accept these credit cards or take whatever steps necessary to implement acceptance of a card before the start of the contract term, or contract award by the City.

All costs associated with the Contractor's participation in this purchasing program shall be borne by the Contractor. The City reserves the right to revise this program as necessary.

By signing below you agree with these terms.

Please indicate which credit card payment you prefer:

☐ MasterCard

☒ Visa

HBC Engineering Company  
Company Name

Adebayo Coker  
Name (Printed)

October 4, 2022  
Date

  
Signature

President  
Title



**BID/PROPOSAL CERTIFICATION**

**Please Note:** It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through [www.BidSync.com](http://www.BidSync.com) prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) **HBC Engineering Company** EIN (Optional): **22-3936061**

Address: **8935 NW 35th Lane, Suite 201**

City: **Doral** State: **Florida** Zip: **33172**

Telephone No.: **(305) 232-7932** FAX No.: **(305) 232-7933** Email: **acoker@hbcengineeringco.com**

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): **N/A**

Total Bid Discount (section 1.05 of General Conditions): **N/A**

Check box if your firm qualifies for MBE / SBE / WBE (section 1.09 of General Conditions): ☒

**ADDENDUM ACKNOWLEDGEMENT** - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>
1	09-06-2022	2	09-23-2022		
1	09-19-2022				

**VARIANCES:** If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **You must also click the "Take Exception" button.**

N/A

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal.

I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages,

expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Adebayo Coker, PE

Name (printed)

09-23-2022

Date



Signature

President

Title

Revised 4/28/2020

**Addendum # 1 - made on Sep 06, 2022 12:00:37 PM EDT**

Previous Bid End Date: Sep 13, 2022 2:00:00 PM EDT    New Bid End Date: Sep 27, 2022 2:00:00 PM EDT  
Description/Bid Comments: (Information was added)

**Addendum # 2 - made on Sep 23, 2022 3:26:43 PM EDT**

Previous Bid End Date: Sep 27, 2022 2:00:00 PM EDT    New Bid End Date: Oct 04, 2022 2:00:00 PM EDT  
Description/Bid Comments: (Information was added)

**Addendum # 3 - made on Oct 03, 2022 11:08:33 AM EDT**

Previous Bid End Date: Oct 04, 2022 2:00:00 PM EDT    New Bid End Date: Oct 12, 2022 2:00:00 PM EDT  
Description/Bid Comments: (Information was added)

**Change made on Sep 19, 2022 9:40:42 AM EDT**

Description/Bid Comments: (Information was added)  
New Documents: 12716-626.ADDENDUM NO. 1.9-19-2022.pdf



BID NO. 12716-626  
CONSULTANT SERVICES FOR RIVERWALK NORTH SEAWALL  
REPLACEMENT (P12708)

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**ADDENDUM NO. 1**

ISSUED: September 19, 2022

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This Addendum is being issued to provide the following information. It is hereby made a part of the Specifications and shall be included with all contract documents.


Acknowledge receipt of this Addendum by inserting its number and date on the Bid Proposal Certification Page.

**REPLACE:** Replace Page 24 with the attached Addendum 1.  
Section 5.2.3 (Weighted Criteria) has been revised.

All other terms, conditions, and specifications remain unchanged.

*Maureen Lewis, MBA, P2P2B*  
Senior Procurement Specialist

Company Name: HBC Engineering Company  
(please print)

Bidder's Signature: 

Date: 09-19-2022

### 5.2.3 Weighted Criteria

<u>Criteria</u>	<u>Percentage</u>
<b>Qualifications of firm:</b> To include years of experience, licenses, insurance, other pertinent information.	<b>25</b>
<b>Qualification of Project Team:</b> To include personnel to be used for the project, project manager, sub-consultants, joint ventures.	<b>25</b>
<b>Approach to Scope of Work</b> To include planned M/WBE participation efforts	<b>25</b>
<b>Previous Similar Projects; References</b>	<b>25</b>
<b>TOTAL</b>	<b>100%</b>

### 5.3 Contract Award

- 5.3.1** The City reserves the right to award a contract to that Consultant who will best serve the interest of the City. The City reserves the right, based upon its deliberations and in its opinion, to accept or reject any or all submittals. The City also reserves the right to waive minor irregularities or variations of the submittal requirements and RFQ process.
- 5.3.2** Upon award of a Contract by the City Commission, the City Manager is authorized to execute the Contract on behalf of the City.
- 5.3.3** The City Manager shall appoint a contract administrator or project manager for each contract to assure compliance with the contract and applicable law. The contract administrator or project manager shall review all pay requests or deny same as required prior to approval by the City Manager.

**END OF SECTION**

expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

Adebayo Coker, PE

Name (printed)

09-06-2022

Date

  
Signature

President

Title

Revised 4/28/2020



7:14 PM

03/02/21

Cash Basis

**HBC ENGINEERING COMPANY****Balance Sheet****As of December 31, 2020**

	Dec 31, 20
<b>ASSETS</b>	
<b>Current Assets</b>	
Checking/Savings	
AMERANT Bank MM 5512	380,827.17
Amerant Biz PPP Acct - 5006	135,255.00
BofA Biz Advtg SAVINGS -6610	201,595.11
BofA Operating 5906	470.94
BofA Payroll - 5867	89,933.60
BofA Petty Cash - 3785	351.47
<b>Total Checking/Savings</b>	<b>808,433.29</b>
Other Current Assets	
Continental Bank	500.00
<b>Total Other Current Assets</b>	<b>500.00</b>
<b>Total Current Assets</b>	<b>808,933.29</b>
<b>Fixed Assets</b>	
Accumulated Depreciation	-358,813.88
Fixed Asset	
Computers & Equipment	18,272.48
Furniture	61,838.26
Printer	12,352.79
Projector	755.40
<b>Total Fixed Asset</b>	<b>93,218.93</b>
Property, Plan & Equipment	
Drone Cameras	1,048.47
Leasehold Improvements	3,250.00
Systems-Software	114,055.30
Traffic Cameras	97,104.82
TV	1,282.80
Vehicles	
2007 F-150	6,800.00
2008 Ford PICK-UP	5,900.00
2012 Ford F-150 PICK-UP	10,100.00
2018 TOYOTA Highlander	42,096.00
2018 TOYOTA Tacoma	28,013.69
<b>Total Vehicles</b>	<b>92,909.69</b>
<b>Total Property, Plan &amp; Equipment</b>	<b>309,651.08</b>
<b>Total Fixed Assets</b>	<b>44,056.13</b>
<b>Other Assets</b>	
Deposits	
Deposit Rent	10,434.64
<b>Total Deposits</b>	<b>10,434.64</b>
<b>Total Other Assets</b>	<b>10,434.64</b>
<b>TOTAL ASSETS</b>	<b>863,424.06</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
Credit Cards	
Amex Buss Plat 12006	134.09
BofA Biz Adv Travel Rwd -5876	11,726.36
<b>Total Credit Cards</b>	<b>11,860.45</b>

7:14 PM

03/02/21

Cash Basis

**HBC ENGINEERING COMPANY****Balance Sheet****As of December 31, 2020**

	<b>Dec 31, 20</b>
<b>Other Current Liabilities</b>	
<b>Payroll Liabilities</b>	
<b>ADP RS 401k</b>	
Claudia S. Bernal	253.82
Damian Reyes 401K	80.00
Daniel Rodriguez 401K	30.78
David A Coker - 401k	84.61
David J. Perez 401K	109.60
Derrek O. Okosun - 401k	300.00
Edgardo Diaz 401K	969.24
Gregory Prytyka 401K	251.92
Hernan Lugo 401K	259.60
Norton Nieves 401K	215.49
Orlando R. Penate 401K	138.46
<b>Total ADP RS 401k</b>	2,693.52
<b>Federal Taxes (941/944)</b>	34,010.06
<b>Federal Unemployment (940)</b>	521.42
<b>FL Unemployment Tax</b>	1,001.86
<b>Gap Insurance</b>	1,574.02
<b>Total Payroll Liabilities</b>	39,800.88
<b>Total Other Current Liabilities</b>	39,800.88
<b>Total Current Liabilities</b>	51,661.33
<b>Long Term Liabilities</b>	
<b>PPP Loan</b>	635,200.00
<b>Total Long Term Liabilities</b>	635,200.00
<b>Total Liabilities</b>	686,861.33
<b>Equity</b>	
<b>Capital Stock</b>	100.00
<b>Opening Balance Equity</b>	-60.89
<b>Retained Earnings</b>	1,736.92
<b>Shareholder Distributions</b>	0.00
<b>Net Income</b>	174,786.70
<b>Total Equity</b>	176,562.73
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>863,424.06</b>

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03/02/21

Cash Basis

**HBC ENGINEERING COMPANY****Profit & Loss**

January through December 2020

	Jan - Dec 20
<b>Ordinary Income/Expense</b>	
Income	
Consulting Income	4,278,820.21
Design Income	811,403.97
Refunds & Allowances	-0.02
<b>Total Income</b>	<b>5,090,224.16</b>
<b>Cost of Goods Sold</b>	
Subcontracted Services	
Sub Serv CA133- SR7/ US 441 Tra	126,463.52
Sub. Serv C9T14-D.W Misc Design	
Task# 10(Mast Arm @NE 125 & 10)	3,878.90
Task# 2 (SR 90/SW 8th & 147 Ave	1,801.19
Task# 5 (Post Design SR90/SW 8	1,118.24
Task# 6 (25/NW 36 St btw NW 19A	5,089.66
Task# 7 (SR 933/NW 12 Ave @ 19	7,011.64
Task# 8 (SR 944/NW 54 st @ 14Av	468.68
Task# 9(SR7/NW 7th Ave@ NW 19th	5,990.01
<b>Total Sub. Serv C9T14-D.W Misc Design</b>	<b>25,358.32</b>
Subcon Serv- Fire Station (C/M)	
Bonfill and Associates	3,978.00
BOTAS Eng. Inc.	11,065.88
<b>Total Subcon Serv- Fire Station (C/M)</b>	<b>15,043.88</b>
Subcon. Serv C9S97-D.W.Lighting	53,023.50
Subcontracted Services- NE 2nd	13,172.10
Subcontracted Services - Other	4,218.08
<b>Total Subcontracted Services</b>	<b>237,279.40</b>
<b>Total COGS</b>	<b>237,279.40</b>
<b>Gross Profit</b>	<b>4,852,944.76</b>
<b>Expense</b>	
Advertising and Promotion	
Recruitment Advertising	700.00
<b>Total Advertising and Promotion</b>	<b>700.00</b>
<b>Automobile Expense</b>	
Fuel	
Fuel CC #11008 Amex	474.12
Fuel CC #3859 *Damian	1,034.65
Fuel CC #5876	309.60
Fuel CC #8703 *Elena (New.CC)	682.74
Fuel CC #9599	219.86
Fuel Reimbursement/Cash	96.45
<b>Total Fuel</b>	<b>2,817.42</b>
<b>Maintenance &amp; Repairs</b>	
Ford F-150 2007	2,320.35
Ford F-150 2008	1,761.95
Ford F-150 2012	616.40
Mercedes Benz	429.75
Nissan Armada	1,711.50
<b>Total Maintenance &amp; Repairs</b>	<b>6,839.95</b>
<b>Mileage Reimbursement</b>	
PINNACLE	411.71
Mileage Reimbursement - Other	699.92
<b>Total Mileage Reimbursement</b>	<b>1,111.63</b>



7:13 PM

**HBC ENGINEERING COMPANY**

03/02/21

**Profit & Loss**

Cash Basis

January through December 2020

	Jan - Dec 20
Tag & Registration	328.35
Total Automobile Expense	11,097.35
Bank Service Charges	3,225.45
Business Development	1,011.30
Charitable Contributions	10,127.00
Computer and Internet Expenses	
Computer Hardware	15,401.84
Software Programs	103,111.66
Website Expenses	149.47
Total Computer and Internet Expenses	118,662.97
Depreciation Expense	23,343.00
Dues and Subscriptions	2,266.01
Education/Certification	14,919.75
Insurance Expense	
Auto Insurance	18,280.00
Commercial Umbrella	2,468.72
Gap Insurance	0.00
General Liability Insurance	722.52
Health Insurance	110,728.61
Professional Liability	18,508.25
Property Insurance	2,125.17
Worker's Compensation	12,410.47
Total Insurance Expense	165,243.74
Interest Expense	11.28
Licenses & Permits	1,606.22
Office Expense	3,077.28
Office Supplies	7,260.41
Parking & Tolls	
TOLL	2,100.00
Parking & Tolls - Other	72.29
Total Parking & Tolls	2,172.29
Payroll Expenses	
Employer Taxes	0.00
Officer Compensation	447,981.60
Wages	3,263,449.82
Total Payroll Expenses	3,711,431.42
Payroll Taxes	
Fica	218,524.45
Futa	2,311.82
Mica	52,176.99
SUTA	12,291.20
Total Payroll Taxes	285,304.46
Political Contributions	15,900.00
Postage and Delivery	172.86
Printing and Reproduction	4,044.53
Professional Event	2,000.00
Professional Fees	
Accountants	10,500.00
Bookkeeping	750.00
Consulting Fees	38,309.51

7:13 PM

**HBC ENGINEERING COMPANY**

03/02/21

**Profit & Loss**

Cash Basis

January through December 2020

	Jan - Dec 20
Engineering Service	
BERT Beach North	250.00
Proposal Write Up Fees	600.00
Rickenbacker Causeway	2,855.00
Traffic Model - Okeechobee	250.00
Engineering Service - Other	450.00
<b>Total Engineering Service</b>	<b>4,405.00</b>
Government Relation Services	39,996.00
Immigration Fee	4,920.00
IT Support	20,106.49
Legal	845.00
Payroll Service fee	4,992.02
Traffic Data Collection	964.32
<b>Total Professional Fees</b>	<b>125,788.34</b>
Relocation Expense	4,886.20
Rent Expense	
Boca Raton Office	18,323.02
Ft. Lauderdale Office, 5200-211	19,646.79
Jakdak Ent. Inc (Doral Ste# 201	114,781.04
<b>Total Rent Expense</b>	<b>152,750.85</b>
Repairs and Maintenance	187.25
Sub-Contractor	0.00
Telephone Expense	
Cell Phone	3,462.34
Office Phones	15,909.46
Phone -Inspectors	
PINNACLE Field Inspector Phone	540.00
<b>Total Phone -Inspectors</b>	<b>540.00</b>
<b>Total Telephone Expense</b>	<b>19,911.80</b>
Travel Expense	
Airfare Expense	6,080.80
Hotel Expense	1,736.22
OOT Meals Expense	39.17
Taxi Expense	45.15
<b>Total Travel Expense</b>	<b>7,901.34</b>
Uniform Expense	700.49
Utilities	
FPL	1,181.77
Internet HighSpeed	9,221.77
<b>Total Utilities</b>	<b>10,403.54</b>
<b>Total Expense</b>	<b>4,706,107.13</b>
<b>Net Ordinary Income</b>	<b>146,837.63</b>
Other Income/Expense	
Other Income	
Interest Income	2,215.45

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03/02/21

Cash Basis

**HBC ENGINEERING COMPANY****Profit & Loss**

January through December 2020

	Jan - Dec 20
Other Income	
FFCRA Credits	2,810.73
Gain on Disposition of Asset	8,010.62
Rewards and Points	1,311.00
Other Income - Other	13,601.27
Total Other Income	25,733.62
Total Other Income	27,949.07
Net Other Income	27,949.07
Net Income	174,786.70



4:20 PM

04/20/22

Cash Basis

**HBC ENGINEERING COMPANY****Balance Sheet****As of December 31, 2021**

	Dec 31, 21
<b>ASSETS</b>	
<b>Current Assets</b>	
Checking/Savings	
AMERANT Bank MM 5512	55,994.58
Amerant Biz PPP Acct - 5006	5,090.00
BofA Biz Advtg SAVINGS -6610	2,646.54
BofA Operating 5906	62,995.50
BofA Payroll - 5867	48,440.26
BofA Petty Cash - 3785	369.86
<b>Total Checking/Savings</b>	<b>175,536.74</b>
<b>Other Current Assets</b>	
Continental Bank	500.00
Shareholder Loans	
Adebayo Coker Loan	230,461.75
Edgardo Diaz Loan	48,220.00
Happiness Oboh-Coker Loan	32,146.67
<b>Total Shareholder Loans</b>	<b>310,828.42</b>
<b>Total Other Current Assets</b>	<b>311,328.42</b>
<b>Total Current Assets</b>	<b>486,865.16</b>
<b>Fixed Assets</b>	
Accumulated Depreciation	-370,623.88
Fixed Asset	
Computers & Equipment	18,272.48
Furniture	61,838.26
Printer	12,352.79
Projector	755.40
<b>Total Fixed Asset</b>	<b>93,218.93</b>
Property, Plan & Equipment	
Drone Cameras	2,407.45
Leasehold Improvements	3,250.00
Systems-Software	114,055.30
Traffic Cameras	97,104.82
TV	1,282.80
Vehicles	
2007 F-150	6,800.00
2012 Ford F-150 PICK-UP	10,100.00
2018 TOYOTA Highlander	42,096.00
2018 TOYOTA Tacoma	28,013.69
TACOMA 2022 - 037484	35,738.81
TACOMA 2022 - 037884	35,537.77
<b>Total Vehicles</b>	<b>158,286.27</b>
<b>Total Property, Plan &amp; Equipment</b>	<b>376,386.64</b>
<b>Total Fixed Assets</b>	<b>98,981.69</b>
<b>Other Assets</b>	
Deposits	
Deposit Rent	10,434.64
<b>Total Deposits</b>	<b>10,434.64</b>
<b>Total Other Assets</b>	<b>10,434.64</b>
<b>TOTAL ASSETS</b>	<b>596,281.49</b>

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**HBC ENGINEERING COMPANY**

04/20/22

**Balance Sheet**

Cash Basis

**As of December 31, 2021**

	<b>Dec 31, 21</b>
<b>LIABILITIES &amp; EQUITY</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Credit Cards</b>	
Amex Buss Plat 12006	18,596.16
BofA Biz Adv Travel Rwds -5876	5,233.54
BofA Line of Credit - 277297	100,000.00
<b>Total Credit Cards</b>	<b>123,829.70</b>
<b>Other Current Liabilities</b>	
<b>Payroll Liabilities</b>	
Federal Taxes (941/944)	22,394.40
Federal Unemployment (940)	595.41
FL Unemployment Tax	1,626.69
<b>Total Payroll Liabilities</b>	<b>24,616.50</b>
<b>Total Other Current Liabilities</b>	<b>24,616.50</b>
<b>Total Current Liabilities</b>	<b>148,446.20</b>
<b>Long Term Liabilities</b>	
Loan BLK Tacoma 37484	29,738.81
Loan Wht Tacoma 37884	29,537.77
PPP Loan	635,200.00
<b>Total Long Term Liabilities</b>	<b>694,476.58</b>
<b>Total Liabilities</b>	<b>842,922.78</b>
<b>Equity</b>	
Capital Stock	100.00
Opening Balance Equity	-60.89
Retained Earnings	811,723.62
Net Income	-1,058,404.02
<b>Total Equity</b>	<b>-246,641.29</b>
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b>596,281.49</b>

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**HBC ENGINEERING COMPANY**

04/20/22

**Profit & Loss**

Cash Basis

January through December 2021

	Jan - Dec 21
<b>Ordinary Income/Expense</b>	
Income	
Consulting Income	2,828,250.44
Design Income	1,043,440.15
DISCOUNTS	-1,183.96
Refunds & Allowances	-13.84
<b>Total Income</b>	<b>3,870,492.79</b>
<b>Cost of Goods Sold</b>	
Subcontracted Services	241,788.12
<b>Total COGS</b>	<b>241,788.12</b>
<b>Gross Profit</b>	<b>3,628,704.67</b>
<b>Expense</b>	
Advertising and Promotion	1,000.00
Automobile Expense	9,827.83
Bank Service Charges	2,202.00
Business Development	1,464.71
Charitable Contributions	5,110.00
Computer and Internet Expenses	115,023.44
Depreciation Expense	17,013.00
Dues and Subscriptions	6,154.14
Education/Certification	18,640.00
Insurance Expense	
Auto Insurance	17,161.24
COBRA	-3,246.90
Commercial Umbrella	2,441.49
General Liability Insurance	784.51
Health Insurance	121,261.91
Professional Liability	26,182.65
Worker's Compensation	9,441.55
<b>Total Insurance Expense</b>	<b>174,026.45</b>
Interest Expense	2,094.02
Licenses & Permits	2,625.51
Office Expense	12,001.45
Office Supplies	12,217.48
Parking & Tolls	2,511.38
Payroll Expenses	
Officer Compensation	447,889.60
Wages	3,151,093.57
<b>Total Payroll Expenses</b>	<b>3,598,983.17</b>
Payroll Taxes	286,561.63
Political Contributions	7,000.00
Postage and Delivery	241.45
Printing and Reproduction	587.67
Professional Event	3,949.00
Professional Fees	
Accountants	9,700.00
Bookkeeping	500.00
Consulting Fees	10,575.44
Engineering Service	2,794.16



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**HBC ENGINEERING COMPANY**

04/20/22

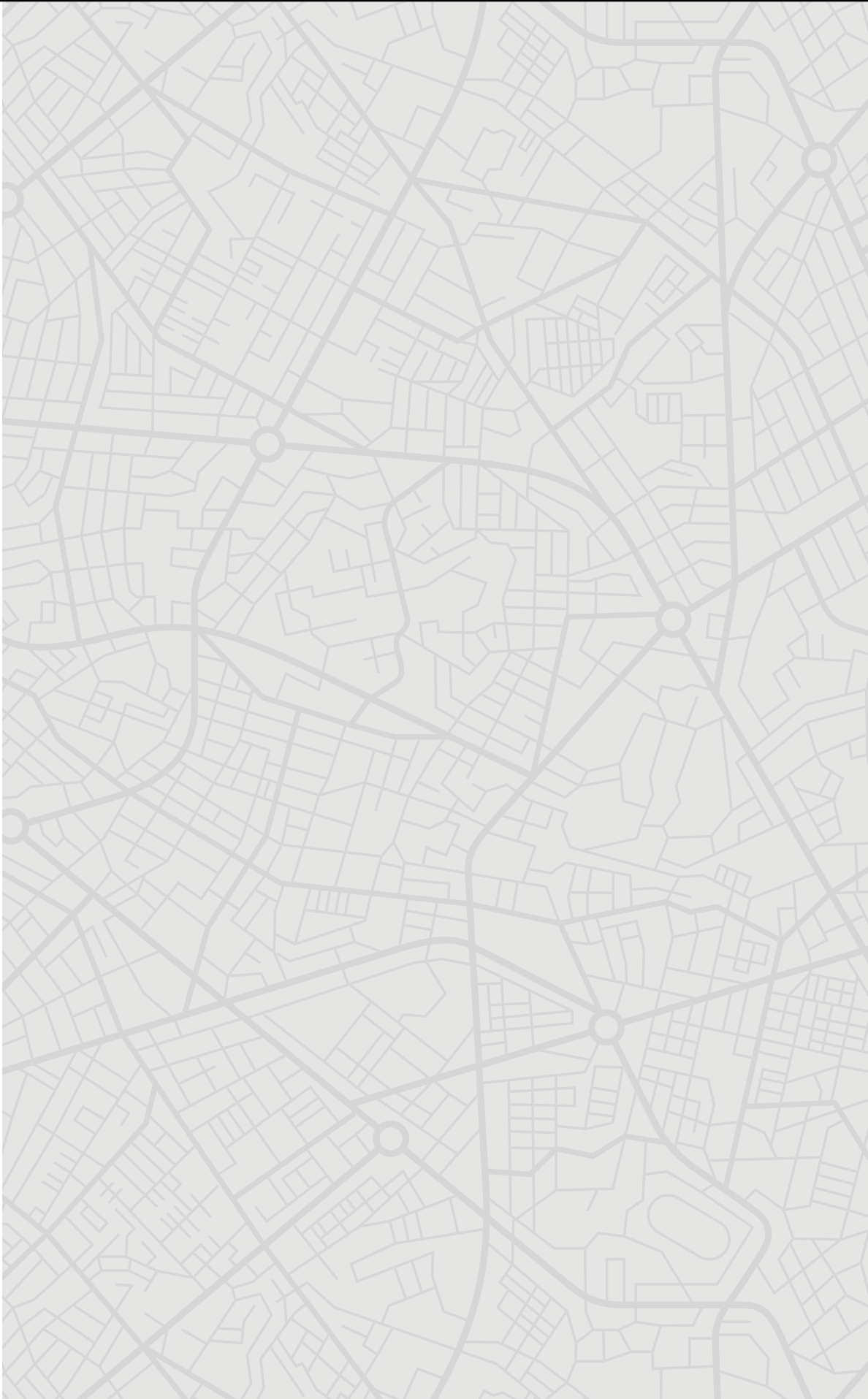
**Profit & Loss**

Cash Basis

January through December 2021

	Jan - Dec 21
Government Relation Services	36,663.00
IT Support	27,870.34
Legal	354.00
Payroll Service fee	5,095.30
Recruitment	67,625.00
Traffic Data Collection	200.64
<b>Total Professional Fees</b>	<b>161,377.88</b>
<b>Rent Expense</b>	<b>172,296.38</b>
<b>Repairs and Maintenance</b>	<b>581.60</b>
<b>Retirement Contribution</b>	<b>71,786.24</b>
<b>Telephone Expense</b>	<b>8,776.44</b>
<b>Travel Expense</b>	<b>6,226.19</b>
<b>Uniform Expense</b>	<b>90.00</b>
<b>Utilities</b>	<b>9,221.06</b>
<b>Total Expense</b>	<b>4,709,590.12</b>
<b>Net Ordinary Income</b>	<b>-1,080,885.45</b>
<b>Other Income/Expense</b>	
Other Income	
Interest Income	1,433.84
Other Income	
Rewards and Points	2,905.89
Other Income - Other	21,096.70
<b>Total Other Income</b>	<b>24,002.59</b>
<b>Total Other Income</b>	<b>25,436.43</b>
<b>Other Expense</b>	
Loss From Disposition of Assets	197.00
Settlement Arbitration	2,758.00
<b>Total Other Expense</b>	<b>2,955.00</b>
<b>Net Other Income</b>	<b>22,481.43</b>
<b>Net Income</b>	<b>-1,058,404.02</b>

Net Amount shown  
was offset with the  
PPLoan for  
employee retention  
during Covid-19.



CITY OF FORT LAUDERDALE

9/29/2023

BidSync

## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Adebayo Coker, PE	Principal in Charge	a. TOTAL 28	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State)			
HBC Engineering Company, Doral, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)	
Bachelor of Science in Civil Engineering, Florida International University - 1992		Professional Engineer, Florida - No. 55322	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
Asphalt Paving Level I & II, CTQP QA/QC Manager, TTC Advanced #38977			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SW 30th Ave. from Griffin Rd. to SW 45th St. 821 RRR	PROFESSIONAL SERVICES CONSTRUCTION (if applicable)	
	Broward County, FL	2019	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Project Manager in charge of design for ADA compliance, widening to add sidewalk, lighting, minor drainage adjustments, MOT, and extensive utility coordination. Signalization improvements include new signal loops and assemblies, traffic signal heads, pedestrian signal heads and detectors, sign panels including internally illuminated signs, traffic controller assemblies, and new mast arm structures. Existing traffic controllers were modified with new concrete poles and aluminum pedestals.			
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR-858/Hallandale Beach Blvd. from SR-7 to Lakeshore Dr.	PROFESSIONAL SERVICES CONSTRUCTION (if applicable)	
	Broward County, FL	2019	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Adebayo Coker, PE, served as project manager for this FDOT project.			
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Districtwide Miscellaneous Design Consultant	PROFESSIONAL SERVICES CONSTRUCTION (if applicable)	
	Miami-Dade County, FL	Ongoing	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Adebayo, Served as Project Manager for Districtwide Scoping Contract. Developed project alternatives to satisfy the identified deficiencies or needs within various project corridors.			



d.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Districtwide Resurfacing Scoping Reports, CA812</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
e.	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm Project Manager for the design of various roadway restoration projects including minor reconstruction, signalization, widening, and intersection improvement projects.		
f.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Civil Engineering Services for Misc. Projects</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
g.	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm Project Manager for the design of various miscellaneous civil engineering projects including minor drainage improvements, renovation of fire stations, renovation of parks, electrical room construction, building structural beam modification, Sidewalk and ADA upgrades, landscaping, etc. projects.		
h.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Signalization &amp; Utility Relocations, SR-821/ Homestead Extension of Florida's Turnpike (HEFT) from Sunset Dr. to SW 40th St./Bird Rd.</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	
i.	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm Served as Design-Build Project Manager for signalization design and improvements of ten (10) signalized intersections. Design included new signalization loops and assemblies, new and relocated traffic signal heads, pedestrian signal heads and detectors, sign panels including internally illuminated signs, video monitors, new and modified mast arm structures, and traffic controller assemblies. Also served as Project Manager for utility relocation of a 2,500 ft, 8-inch diameter water mainline and a 900 ft, 4-inch diameter sewer line. Project also involved utility coordination.		
j.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Chute Road Relocation Phase II</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2017	
k.	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm Served as Project Manager, providing traffic engineering support and conceptual design to the Port of Miami. The main challenge in this project was the extreme urgency to complete the work as required by the Port of Miami engineering staff. The challenge was successfully met by assigning the proper resources and working expeditiously to meet the deadlines without sacrificing quality. The work consisted of analyses of different roadway designs options to accommodate truck traffic.		
l.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Shed B Traffic Circulation Plan Study</b> <b>Engineering Services</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2017	
m.	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm Served as Project Manager, providing traffic engineering support and conceptual design to the Port of Miami. The main challenge in this project was the extreme urgency to complete the work as required by the Port of Miami engineering staff. The challenge was successfully met by assigning the proper resources and working expeditiously to meet the deadlines without sacrificing quality. The work consisted of analyses of different roadway designs options to accommodate truck traffic.		

# Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Miguel Villegas, PE	Project Manager and Structural Engineer	a. TOTAL 25	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State)			
HBC Engineering Company, Fort Lauderdale, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)	
Master of Science in Civil Engineering, University of South Florida Bachelor of Science in Civil Engineering, University of South Florida		Professional Engineer, FL - 68768	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
National Council of Examiners for Engineering and Surveying - No. 39125			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR-581 (Bruce B. Downs Blvd.) at SR-54 Pasco County, FL	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	2022		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE      Check if project performed with current firm			
Role: Structural Engineer/EOR. Intersection Improvement project which included analysis and design of strain pole systems supported on deep shaft foundations.			
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Casuarina & Bucida Seawall Structural Assessments Tampa, FL	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	2021		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE      Check if project performed with current firm			
Role: Structural Engineer/EOR. Structural condition assessment report of road adjacent seawalls.			
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Waste Management Services – Temporary Sheet Piling at Trail Plaza Shopping Center – White Sands Source Removal Sarasota, FL	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	2021		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE      Check if project performed with current firm			
Role: Structural Engineer/EOR. Design of a temporary steel sheeting system to protect existing building during adjacent excavation and removal of contaminated soils. Other services provided was vibration monitoring during installation and removal of sheeting.			
d.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	SR-10 (US-90) West James Lee Blvd. Okaloosa County, FL	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	2020		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE      Check if project performed with current firm			
Role: Structural Engineer/EOR. Intersection Improvement – Strain Pole Systems Analysis and Design.			

e.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Lakes at Laurel Highlands</b> Lakeland, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm Design of non-standard/modified FDOT gravity walls to receive a proposed chain link fence. Other design tasks included a variety of light pole foundation designs.		
f.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Atlantic Dunes Park Seawall &amp; Parking Restoration</b> Delray Beach, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm <b>Role:</b> Structural Engineer/EOR. The Atlantic Dunes Park project included the design of two seawalls replacements for the north and south parks. Furthermore, post design services were provided during the bidding process. This project is currently under construction.		
g.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>City of Miami Mini Park</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2020	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm <b>Role:</b> Structural Engineer. Performed various miscellaneous structural designs for items such as a retaining/private concrete wall, deep and spread foundations for diverse types of light poles, gates and sign monuments. Other services included construction cost estimates and technical specifications.		
h.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Island Drive Bridge Assessment, Rehabilitation, and Seawall Replacement</b> Delray Beach, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm <b>Role:</b> Structural Engineer/EOR. Bridge rehabilitation for Island Drive bridge, a two 12-foot lanes concrete bridge approximately 70 feet long by 32 feet wide spanning over a waterway. Initially, MCE prepared a bridge condition assessment report followed by the preparation of construction plans for bridge rehab and seawall replacement. Other services provided were bid package assistance, preparation of technical specifications and construction assistance.		
i.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Foundation for Lighting Pole</b> Boynton Beach, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm <b>Role:</b> Structural Engineer/EOR. Deep and spread foundations for diverse types of light poles.		
j.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Normandy Boulevard</b> Jacksonville, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2018	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm <b>Role:</b> Structural Engineer/EOR. Design of strain poles, mast arms and cantilevered sign structures.		



## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Andres Cardona, PE	Civil Engineer	a. TOTAL 26	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State)			
<b>HBC Engineering Company</b> , Fort Lauderdale, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)	
Bachelor of Science in Civil Engineering, Escuela Colombiana de Ingenieria		Professional Engineer, FL - 63917	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
Member of the American Society of Civil Engineers, ASCE / Member of Florida Engineers Society, FES / Certified Florida Traffic Control Supervisor			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) <b>N. Cruise Boulevard Roadway, Access Roadway to Terminals B and C, PortMiami</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	2021
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE	Check if project performed with current firm		
Project manager for the design and post-design services of the 0.5 miles of the new N. Cruise Boulevard. Project includes roadway design, drainage, lighting, utility adjustments, permitting and post-design services. It also involves demolition, overhead sign structures design and coordination with client and federal authorities.			
b.	(1) TITLE AND LOCATION (City and State) <b>FPL Vaults and RPM Relocations, PortMiami</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2020	2021
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE	Check if project performed with current firm		
Project manager for the demolition of the existing electrical vaults and associated utilities and building, and installation of new control panels, adjacent to Terminals B and C. Reconfiguration of the Radiation Portal Monitors from the Cargo Gate at PortMiami. Includes demolition, structures and coordination with client and federal authorities.			
c.	(1) TITLE AND LOCATION (City and State) <b>Seaboard Marine Cargo Drainage and Pavement Improvements, PortMiami</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2020	2020
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE	Check if project performed with current firm		
Project manager for the design and post-design services of the Phase 5 and 5A for Seaboard Marine. Includes demolition of existing pavement and structures, update of pavement and regrading of site, upgrade of existing drainage system, water system and lighting systems.			

d.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Pump Station No. 9141 and 8-inch Force Main Replacement, PortMiami</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2020	2020
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm		
	Project engineer for the design of upgrades to Port of Miami's Master Pump Station 9141, replacement of approximately 6,000-LF of existing 8-in cast iron pipe force main that connects this pump station to the Miami-Dade Water and Sewer Department's (MDWASD) wastewater collection and transmission system, and a proposed dry force main crossing Biscayne Bay, paralleling the new PortMiami 10-in force main (to serve the future PortMiami Southwest Corner Commercial Development). The replacement force main and dry force main alignments cross the waterway between Dodge Island and the mainland will be to be south of the Bascule Bridge below the Biscayne Bay Bottom using the Horizontal Directional Drilling (HDD) method of construction.		
e.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>PortMiami Tunnel</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2014	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm		
	Project Engineer for the structural design of the Cut and Cover, U-Wall, Retaining Walls, overhead sign structures and Drainage facilities of the Tunnel; in charge of production of plans, calculations and quantities during the various milestones related to the design of the tunnel. Additionally, research for the Flood Gates installed. I also participated actively in the proposal to the County and FDOT.		
f.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>NW 17th St. from NW 27th Ave. to NW 32nd Ave. Roadway Improvements</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2020	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project Manager and Lead Designer responsible for development of plans. Project included design of roadway features, drainage, signalization, signing, and pavement marking, and roadway reconstruction as well as utility coordination, including a JPA with MDWASD.		
g.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>NW 25th St. Roadway Improvements from W of NW 117th Ave. to NW 87th Ave.</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project engineer for the design services of the 3 miles of roadway drainage improvements and its adjacent N. Line Canal culverts replacement/installation. Project includes drainage design and modeling using ICPR, drainage permitting and coordination with federal, state, and local agencies. It also involves coordination with client, utility owners and other disciplines.		
h.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>MDX 83624</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2008	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> Check if project performed with current firm		
	Engineer of Record for the structural design of the overhead sign structures included in the project, in charge of design, production of plans, and coordination with different disciplines and entities during the duration of the project. Design-Build Project construction recently completed.		

## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

<b>12. NAME</b> Jose Lopez, PE	<b>13. ROLE IN THIS CONTRACT</b> Civil Engineer	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 17	<b>b. WITH CURRENT FIRM</b> 6
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>HBC Engineering Company, Doral, FL</b>			
<b>16. EDUCATION (Degree and Specialization)</b> Bachelor of Science in Civil Engineering		<b>17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)</b> Professional Engineer, Florida - No. 81014	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)</b> 30-HR OSHA Certification; TTC Advanced #25346; ICPR V4 Training; FDOT Specifications; Package Preparation			
<b>19. RELEVANT PROJECTS</b>			
<b>a.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-80/Southern Blvd. from West of Lyon County Safari Rd. to Forest Hill Blvd. / Crestwood Blvd.</b> Palm Beach County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2017	
<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm			
Engineer of Record responsible for designing the signalization system for 6 signalized intersections where high speeds over posted limits were reported. Design included new traffic signals for 5 signalized intersections and the addition of a new signal with advanced warning flashing beacons, advanced loops, and vehicle video detection cameras.			
<b>b.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-7/US-441 Transit Corridor Improvements</b> Broward County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm			
Project engineer responsible for designing roadway improvements from the Broward Miami-Dade County Line to North of Sample Road and SR 858/Hallandale Beach Blvd. from Edmund Road to SW 58th Ave. throughout 25 intersections that include "yield to pedestrian" signs, count down pedestrian signals, lighting retrofits, ADA ramps, high emphasis crosswalks, a new signalized restricted crossing, and sidewalk/bike lane construction, widening and flexible pavement design. Design also involved improvements for shared use paths and sidewalks on SR 7/US 441 between Oakes Rd. and the New River Greenway and SR 838/Sunrise Blvd. from SR 7/ US 441 to NW 31st Ave. Also responsible for necessary interdisciplinary coordination.			
<b>c.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Hollywood Gardens Sidewalk Improvement Project</b> Broward County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2017	
<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm			



	Project Engineer who performed analysis and drainage design structures for a 40-acre area, which included French drains, electrical load and photometric analysis, 25,000 LF of sidewalks to replace existing damaged and missing gaps with ADA compliant sidewalk. Also prepared drainage report.		
	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-25/NW 36th St. from NW 20th Ave. to NW 19th Ave.</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
d.	Engineer of Record and project manager responsible for designing roadway safety improvements. This resulted from a Safety Study, completed for this roadway segment, and involved improvements to SR 25/NW 36 Street from NW 20 Avenue to NW 19 Avenue in the City of Miami. Improvements consisted of the installation of a new mast arm structure that included a high intensity activated crosswalk (HAWK) signal at the mid-block pedestrian crossing on NW 36th Street between NW 20th Ave. and NW 19th Ave. Pavement design was also performed.		
	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-933/NW 12th Ave. at NW 19th St. Intersection Improvement Project</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
e.	Engineer of Record and project manager for safety and operational intersection improvements. Tasks included designing a new traffic signal with vehicle video detection cameras, milling, and resurfacing to implement pavement-marking changes, preparing TTCP, and replacement of pedestrian ramps. Pavement design was also performed. Additionally, coordination with Miami-Dade Transit and Metrorail to integrate future signal improvements within Metrorail right of way.		
	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-944/NW 54th St. at NW 14th Ave. Intersection Improvement Project</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
f.	Engineer of Record and project manager responsible for designing roadway safety improvements. This resulted from a Safety Study, completed for this roadway segment, and involved improvements to SR 944/NW 54 Street at NW 14 Avenue in the City of Miami. Safety improvements consisted of the installation of a new mast arm structure that included a crossing flashing beacon (RRFB) at the mid-block pedestrian crossing on NW 54 Street at NW 14 Avenue. Also completed pavement design.		
	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-7/US-441/NW 7th Ave. Emergency Signal at Northside Police Station Safety Improvement Project</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
g.	Engineer of Record and project manager responsible for safety improvements design for the Northside Police Station driveway in the West Little River area. This project resulted from an Intersection Qualitative Assessment and Signal Warrant Analysis dated October 2017, which recommended the installation of a new emergency traffic signal at the Northside Police Station driveway enabling preemption for the intersection located at SR 7 and NW 81st street. Pavement design was also prepared.		

## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

<b>12. NAME</b> Gonzalo Barrera, PE	<b>13. ROLE IN THIS CONTRACT</b> Civil Engineer	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 4	<b>b. WITH CURRENT FIRM</b> 3
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>HBC Engineering Company, Doral, FL</b>			
<b>16. EDUCATION (Degree and Specialization)</b> BS in Civil Engineering Florida International University - 2018		<b>17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)</b> Florida Professional Engineer – Number 94260	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)</b> Temporary Traffic Control (TTC) Advanced # 44555			

### 19. RELEVANT PROJECTS

	<b>(1) TITLE AND LOCATION (City and State)</b>	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
<b>a.</b>	<b>FDOT D4 SR-7/US-441 Transit Corridor Improvements – Task Order 3</b> Fort Lauderdale, FL	2019	Ongoing
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
	Engineer responsible for the design of a proposed sidewalk improving pedestrian connectivity between three intersections, including a signalized marked crossing. Also responsible for designing two shared-use paths. One is almost 1 mile in length and connects the end of the proposed sidewalk to an existing shared-use path. The second is 1.5 miles in length, connects SR-7/US-441 to NW 34th Avenue and NW 31st Avenue along a canal, and includes a mid-block crossing with a rapid flashing beacon across NW 34th Avenue. Responsibility also includes the development of 3D modeling for section segments to determine the expected earthwork cut and fill quantities.		
<b>b.</b>	<b>FDOT D4 SR-7/US-441 Transit Corridor Improvements – Task 2</b> Fort Lauderdale, FL	2019	2022
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
	Engineer Intern who assisted in preparing CADD designs for roadway improvements along the corridor to improve pedestrian mobility. This included horizontal geometry and vertical profiles in compliance with FDM and ADA guidelines to ensure safety. Responsibilities also included preparing a 3D model for the proposed design to develop cross sections for the required earthwork and construction quantities for the proposed roadway widening and sidewalk improvements; reworking the adjacent drainage ditch to account for the improvement, without affecting the current runoff; developing design alternatives for the proposed designs, based on existing conditions to determine the safest and most cost-effective design; redesigning several substandard signalized intersections to meet current MUTCD and FDOT standards, which included relocating pedestrian detectors and countdowns, as well as reconstructing curb ramps to comply with ADA requirements; and designing the proposed mid-block crossing and pedestrian channelization barriers to improve pedestrian safety and encourage crosswalk usage.		

	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>FTE Wrong-Way Vehicle Detection Implementation</b> Miami, Fort Lauderdale, & West Palm Beach, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	Ongoing
	<b>(3) BRIEF DESCRIPTION</b> <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE	<b>X</b> Check if project performed with current firm	
c.	Engineer responsible for preparing the Intelligent Transportation System (ITS) cabinet cross section and Temporary Traffic Control Plans (TTCPs) for the construction plans. The ITS cabinets were coordinated with the ITS engineer to ensure that the locations comply with setback standards, without impacting existing features. Responsible for designing the TTCPs for sequential construction phases with lane closure analyses to determine the best time for lane closure on the off ramps and for the WWVDS testing phase, which required temporary detour plans during the ramp closure while testing.		
	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>FDOT D6 SR-5/US-1/South Dixie Highway at Caribbean Boulevard</b> Cutler Bay, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	Ongoing
d.	<b>(3) BRIEF DESCRIPTION</b> <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE	<b>X</b> Check if project performed with current firm	
	Engineer responsible for the design of new mast arms at new locations, while keeping existing signals operational, due to safety improvements at signalized intersection. Also responsible for the design of lane assignment signs for both approaches.		
	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>FDOT D6 SR-25/US-27/Okeechobee Road Transportation Management Plan</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	2021
e.	<b>(3) BRIEF DESCRIPTION</b> <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE	<b>X</b> Check if project performed with current firm	
	HBC Engineering generated a Temporary Traffic Control Master Plan (TTCMP) based on the individual segments' TTCPs to move vehicular and pedestrian traffic during all phases of construction. The TTCMP plan included a compilation of all adjacent projects and their relative geometric stage at various points during construction to determine potential conflicts during the construction phase and design potential transitions between the work zones.		
	<b>(1) TITLE AND LOCATION</b> <i>(City and State)</i> <b>FDOT D6 SR-25/Okeechobee Rd. from west of NW 138<sup>th</sup> St. to east of NW 107<sup>th</sup> Ave.</b> Miami, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2018	2020
	<b>(3) BRIEF DESCRIPTION</b> <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE	<b>X</b> Check if project performed with current firm	
f.	Engineer Intern who assisted in designing the Temporary Traffic Control Master Plan (TTCMP) to ensure a safe and continuous transition between corridor, based on the estimated construction schedule. Responsibilities included determining Temporary Traffic Control (TTC) phase overlaps then transiting the proposed TTC lane configuration between segments of the corridor. Responsibilities also included detour overlap location, clarity of detour assignment, and general geometry of TTC lane configuration.		



## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

<b>12. NAME</b> Claudia Bustamante, MS, PE	<b>13. ROLE IN THIS CONTRACT</b> Civil Engineer	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 17	<b>b. WITH CURRENT FIRM</b> 2
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>HBC Engineering Company, Fort Lauderdale, FL</b>			
<b>16. EDUCATION (Degree and Specialization)</b> Master of Science in Civil Engineering, Transportation Bachelor of Science in Civil Engineering		<b>17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)</b> Professional Engineer, Florida - No. 87381	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)</b> FDOT TTCP Advanced Certification #32203; DOT Specifications Package; GeoPAK; MicroStation; Autoturn; CADD; 3D Modeling			
<b>19. RELEVANT PROJECTS</b>			
<b>a.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-7/US-441 Transit Corridor Improvements Group/Priority 2 between Orange Rd.</b> Broward and Miami-Dade Counties, FL		<b>(2) YEAR COMPLETED</b>
			PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)
			2022
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
Roadway and Pavement Engineering, assisting with scoping reports, TTCPs, technical proposals, instructor of Design Standard applications, and manager of tasks and FDOT pursuits. Part of the roadway design team also involved with RRR projects, widening, and participating in designs for pavement, horizontal and vertical geometry, side streets, sign and pavement marking, shared-use paths, bicycle lanes, and sidewalks. Coordination was also made between all design disciplines helping the EOR with roadway, signalization, S&PM, street lighting, landscaping, drainage, and environmental, while maintaining the project on schedule. FDOT D6, signing and pavement marking reviewer.			
<b>b.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Broward School Zone Flasher Project two (2) Schools</b> Broward County, FL		<b>(2) YEAR COMPLETED</b>
			PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)
			Ongoing
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
Project Engineer developing school zone flashers improvements design for two (2) locations: Broward Estates Elementary School and Oakridge Elementary School. The design included records research, signalization, signing and pavement markings, utility coordination, subsurface utility engineering, permitting, and public notification.			
<b>c.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Wrong Way Vehicle Detection Implementation</b> Miami-Dade, Broward & Palm Beach Counties, FL		<b>(2) YEAR COMPLETED</b>
			PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)
			2023
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
Roadway Engineer responsible for preparing of the TTCP for the construction plans. Included sequential construction phases with lane closure analyses to determine best time to closure a lane			

	on the off ramps when applied and for the WWVDS testing phase which required temporary detouring plans during the ramp closure while testing.		
d.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-5/US-1 South Bound on Ramp to West Bound I-595</b> Broward County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE	X Check if project performed with current firm	
	Project Engineer who assisted as a consultant in the In-house Roadway Design team in FDOT District 4. The design included roadway milling and resurfacing and lane construction. This included horizontal and vertical geometry in compliance to the FDM. Responsibilities also extended to preparing a 3D model for the proposed design to develop cross sections for the required earthwork and construction quantities for the proposed roadway improvements.		
e.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-9/I-95 at St Lucie West Blvd.</b> St. Lucie County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE	X Check if project performed with current firm	
	Project Engineer who assisted as a consultant in the In-house Roadway Design team in FDOT District 4. The design included roadway milling and resurfacing and lane construction. This included horizontal and vertical geometry in compliance to the FDM and ADA guidelines to ensure safety. Responsibilities also extended to preparing a 3D model for the proposed design to develop cross sections for the required earthwork and construction quantities for the proposed roadway improvements.		
f.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>SR-809/Military Trail at Forest Hill Blvd.</b> Broward County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE	X Check if project performed with current firm	
	Project Engineer who assisted as a consultant in the In-house Roadway Design team in FDOT District 4. The design included roadway milling and resurfacing, coordination for pedestrian signals, lighting retrofits, roadway ADA ramps, high emphasis crosswalks, and sidewalk/bike, lane construction, widening and flexible pavement design. This included horizontal geometry and vertical geometry in compliance to the FDM and ADA guidelines to ensure safety. Responsibilities also extended to preparing a 3D model for the proposed design to develop cross sections for the required earthwork and construction quantities for the proposed roadway widening and sidewalk improvements. Also included drainage improvements, signing and pavement marking, signalization, pavement design, utility coordination, public involvement, project management tasks and QC coordination.		
g.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>Pavement Restoration Assessment Report SR 25/US 27/NW 36th St. from East of NW 7th Ave. to West of North Miami Ave.</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE	? Check if project performed with current firm	
	Project Engineer assisting the preparation restoration assessment report. The report includes safety improvements within the project area as well as data collection of the existing conditions to determine their compliance to the FDM and FDOT standard plans.		

## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Roberto Rubio, MS, PE	Structural Engineer	a. TOTAL 32	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) <b>HBC Engineering Company</b> , Fort Lauderdale, FL			
16. EDUCATION (Degree and Specialization) Master of Science in Civil Engineering, University of Washington - 1987		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline) Florida, Professional Engineer - No. 48982	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
a.	<b>Miami-Dade County Water &amp; Sewer Department Buildings Report for Capital Repair Plans (EDP-WS-390)</b> Miami Dade County, FL	2022	
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Inspection of water treatment structures at Alexander Orr and Hialeah Water Treatment Plants, including Raw Sludge Holding Tanks, Chlorine Contact Basin, Flocculator / Settling Tanks, Clarifiers, Aeration Basins, Filtration System Area, Sodium Silicate/Lime Unloading Station, Sludge Pump Room, High Service Pump Room, Ammonia Storage and Feed Area, Fuel Tanks, and Warehouses. Ancillary structures include one story reinforced concrete and masonry buildings for housing of equipment, metal and reinforced concrete staircases and platforms for access to all areas, metal ladders and safety handrail. Prepared a template for structures inspection. In charge of team of engineer inspectors. In charge of filling out structural inspection reports and review of reports by others for accuracy of content and uniformity. Reports included photographic documentation of structural failures as well as well-kept structures and components. Reports included recommendations for repairs and calculation of quantities.		
b.	<b>40 Years Recertification of West Transfer Station Bldg. 1</b> Miami Dade County, FL	2022	
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Inspection of condition of the building structure including tipping floor, metal roof frame, push walls, basement, compactor crane areas, surge pit, pump room, storage room, truck loading bays, offices, and employee facilities. Recommended immediate closure of tipping floor given advanced deterioration of the reinforced concrete slab. Final report with recommendations of emergency repairs throughout the buildings before 40 years recertification can take effect. Periodic inspections to monitor state of tipping floor slab. Duration		



c.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Wrong-Way Vehicle Detection System Implementation</b> South Florida	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b>	X Check if project performed with current firm	
	Structural design of non-standard wrong way sign poles and foundation versus Indexes 700-010 and 700-120 and reports to the Florida Turnpike. Structural analysis of existing overhead sign structures with the addition of wrong way signs. Structural analysis of concrete barrier mounted WW signs versus Index 700-012. Secured data from Tapco, manufacturer of electronic sign equipment. Use of FDOT Drilled Shaft, Single Post, and Overhead Span Sign programs.		
d.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-7/US-441 Transit Corridor Improvements</b> Broward and Miami-Dade Counties, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b>	X Check if project performed with current firm	
	Preliminary design of retaining walls along proposed shared use path at the intersection of I-595 and SR-7 and ramps, in coordination with the geotechnical consultant; upgrades to guardrail transitions and attachment to bridge traffic railings.		
e.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Districtwide Miscellaneous PE Design</b> FDOT District 6, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b>	X Check if project performed with current firm	
	<ul style="list-style-type: none"> <li>Review Plan sheet T-13, special footing design</li> <li>Special foundation and anchorage design for pedestrian countdown signal pole. (calculations and draw plan sheet)</li> </ul>		
f.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-7/US-441 Improvements from Broward/ Miami-Dade County Line to N of Sample Rd.</b> Broward County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b>	Check if project performed with current firm	
	<ul style="list-style-type: none"> <li>Intersection (37) improvements</li> <li>Sidewalk &amp; bike lane improvements on Hallandale Beach Blvd. from east of SR-7 to SW 58th Ave.</li> <li>Signalized Pedestrian Crossing at SR-7/US-441 and NW 3rd Street.</li> <li>Hallandale Beach Blvd. from Edmund Rd. to SW 58th Ave.</li> <li>Sidewalk, bike lane, and lighting improvements on SR-7/US-441 from Southgate Blvd. to the Cypress Creek Canal</li> </ul>		
g.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-714/Martin Highway from Citrus Blvd. to Martin Downs Blvd.</b> Martin County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b>	Check if project performed with current firm	
	Subconsultant to Engineer of Record. Widening of SR-714/Martin Highway, including widening of the SR-714/Martin Highway bridge over the Florida Turnpike. Designed all signal mast arm structures at the intersections of SR-714/Martin Highway with SW Citrus Blvd. and SW 42nd Avenue. Used FDOT mast arm spreadsheet and mast arm MathCAD design programs.		

# Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Willy Giron Matute, PhD, PE	Structural Engineer	a. TOTAL 10	b. WITH CURRENT FIRM 1
15. FIRM NAME AND LOCATION (City and State) <b>HBC Engineering Company, Fort Lauderdale, FL</b>			
16. EDUCATION (Degree and Specialization) PhD in Civil Engineering, The University of Alabama Master of Science in Civil Engineering with a focus on Project Management, University of Alabama		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline) Florida, Professional Engineer - No. 86730	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.) OSHA-40 hours trained / Member of the Society of Civil Engineers (ASCE)			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) <b>Project Manager</b> Country-wide		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2022	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE Check if project performed with current firm			
<b>a.</b> <ul style="list-style-type: none"> <li>Daily activity project management and milestone tracking for the construction of recreational bodies of water with unlimited size.</li> <li>Coordinate construction activities and meetings with client, EOR, and general contractor.</li> <li>Conduct field reviews, testing and reports for mechanical and electrical &amp; wastewater equipment.</li> <li>Managing assignments and personnel to complete constructions tasks according to Florida Building Code, ACI 318-19 and water quality control.</li> </ul>			
(1) TITLE AND LOCATION (City and State) <b>Post-Tension (PT) Structural Engineer</b> South Florida		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2019	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE Check if project performed with current firm			
<b>b.</b> <ul style="list-style-type: none"> <li>Structural analysis and design for large-scale construction projects in South Florida (i.e., Aston Martin Tower, Armani Casa, River Yacht Club Phase III, and Coral Gables Plaza)</li> <li>Slab-on-grade foundation analysis and post-tension structural design using AutoCAD and RAM for commercial and industrial projects located in South Florida.</li> <li>Assembled closeout documentation to include manuals of the structural design.</li> <li>Conducted structural design failure analysis and expert testimony for construction projects.</li> </ul>			
(1) TITLE AND LOCATION (City and State) <b>Rickenbacker Causeway Upgrade</b> Key Biscayne, FL		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE Check if project performed with current firm			
<b>c.</b> Construction project manager for this bridge reconstruction and upgrade which includes joint removal and replacement. Responsible for ensuring the correct placement of the MOT and the construction of the new bike/pedestrian lanes.			

	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>Project Engineer</b> Alabama	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2017	
d.	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE		
	<p>Check if project performed with current firm</p> <ul style="list-style-type: none"> <li>Performed studies and forums for ALADOT</li> <li>(Alabama Department of Transportation) to improve road safety.</li> <li>Performed projections and analysis to decrease the number of accidents in the highways of Alabama.</li> <li>Performed sustainability and environmental analysis under the LEED code for buildings and ENVISION code for roads.</li> <li>Prepared proposals, budget, and cost estimates for the construction of buildings for The University of Alabama.</li> </ul>		
	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>Project Engineer</b> DeKalb, MS	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2014	
e.	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE		
	<p>Check if project performed with current firm</p> <ul style="list-style-type: none"> <li>Daily activity project management and milestone tracking for Southern Company's power plant IGCC (Integrated Gasification Combined Cycle) in DeKalb, MS.</li> <li>Conducted field reviews to make sure the necessary equipment and material was shipped to the power plant.</li> <li>Training of construction and operation personnel.</li> <li>Maintained project documentation to include submittals, change of orders, and RFPs.</li> </ul>		



## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Orlando Penate, PE	Electrical Engineer	a. TOTAL 15	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State)			
<b>HBC Engineering Company, Doral, FL</b>			
16. EDUCATION (Degree and Specialization)		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)	
Bachelor of Science in Electrical Engineering, Marta Abreu de Las Villas		Professional Engineer, FL - 80385	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
Bentley MicroStation / AutoCAD / FLUG Open Road Designer / FDOT Specifications Package Preparations / Bullet Proof Manager Program / FDOT Advanced TTC, #66969 / IMSA Traffic Signal Technician Level 1, #AA_131518 / IMSA Traffic Signal Field Technician Level 2, #BE_131518 / Advanced Building Code Course Credit / 7th Edition, Florida Building Code			
19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
<b>South and Central Districts Wastewater Treatment Plants Expansion</b> Miami-Dade County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2022	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
a.	Performs Cost Estimating for the South and Central Wastewater Treatment Plan Expansion as part of the improvements that MDWASD needs to commence to comply with requirements of the Ocean Outfall Legislation.		
	<ul style="list-style-type: none"> <li>Assist the estimating team with the management of project scope, budget, WBS, and schedule.</li> <li>Review technical data and plans for takeoff quantities related with Plumbing, HVAC, Fire Alarm, Fire Protection.</li> </ul>		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
<b>Brighton Wastewater Treatment Plant Expansion Design &amp; Construction (Lift Station)</b> Glades County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
b.	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Engineer of Record responsible for a complete design of a new Lift Station. Design includes new service connection, control panel, variable frequency drivers, and power and instrumentation control for three new pumps and lighting for a new canopy at lift station.		
(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED	
<b>40 Years Recertification of West Transfer Station Building 1</b> Miami Dade County, FL		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
c.	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Senior Electrical Engineer responsible for the electric assessment and the 40 Years Recertification Inspection Report for the West Transfer Station Building 1. The scope involves the inspection of Building No. 1 at the West Transfer Station, on behalf of the client, Miami-Dade County Department		

	of Solid Waste Management (DSWM), with the purpose of determining the general structural condition of the building and the general condition of the building's electrical systems, and submitting a written Recertification Report to the Miami-Dade Building Official, certifying whether the building is structurally and electrically safe for continued occupancy, for the specified use, in accordance with Section 8-11(f) of the Miami-Dade County Code.		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Districtwide Resurfacing Scoping Reports - Work Program Development Support</b> Miami-Dade County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
(3) BRIEF DESCRIPTION <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE		✗ Check if project performed with current firm	
Document the existence and type of lighting within the project limits, assessment of existing lighting system conditions, identification of lighting issues, photometric reading, photometric analysis of existing and proposed conditions at specific locations to include on Pavement Restoration Assessment Report for different Task Work Orders.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>Street Lighting Inventory and Illumination Levels Study</b> Pembroke Pines, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
(3) BRIEF DESCRIPTION <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE		✗ Check if project performed with current firm	
Establish Illumination Criteria and Minimum Illumination Levels. Compile detailed inventory and report on the quantity and type of existing street lighting. Prepare a photometric light study for all streetlights on City owned streets and presenting at a minimum the light intensity and uniformity. Developed a geodatabase of more than 3,000 FPL light poles using GIS tools. Evaluate and prioritize potential infrastructure improvements. Provide general guidelines for street lighting which denotes typical locations and spacing of roadway lighting. Prepare a Roadway Lighting and Policy Development Report. Review application of LED lighting. Create Resident Streetlight Request procedure. Develop a Roadway Lighting Policy and standard that can be applied to evaluate lighting along City streets.			
f.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>SR-A1A from south of Jasmine Lane to north of SR-60/Beachland Blvd.</b> Indian River County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
(3) BRIEF DESCRIPTION <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE		✗ Check if project performed with current firm	
Project consisted of milling and resurfacing, repairing damaged sidewalk, adding bike lanes, constructing sidewalk on east side at gap location, signalized intersection lighting retrofit at SR-A1A and Beachland Boulevard, and lighting for two new midblock crosswalks on SR-A1A at Iris Lane and Dahlia Lane.			
g.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>SR-7/US-441 Transit Corridor Improvements, Group/Priority 1</b> Broward County, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		Ongoing	
(3) BRIEF DESCRIPTION <i>(scope, size, cost, etc.)</i> and SPECIFIC ROLE		✗ Check if project performed with current firm	
Engineer of Record responsible for designing lighting improvements for 21 intersections that include lighting retrofits replacing existing HPS luminaires with LED luminaires at each signalized intersection and supplement with new light poles with LED luminaires and FPL luminaires at specific locations to meet roadway and pedestrian lighting design criteria. Also responsible for required coordination with multiple engineering disciplines, municipalities, and FPL. Design improvements will increase passenger transit and enhance overall patron experiences.			

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Maikel Fiallo Nunez, PE	Electrical Engineer	a. TOTAL 21	b. WITH CURRENT FIRM 1

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

**HBC Engineering Company**, Doral, Florida

#### 16. EDUCATION (Degree and Specialization)

BS in Electrical Engineering, Instituto Superior Politecnico Jose Antonio Echeverria (ISPJAE) - 2001

#### 17. CURRENTLY PROFESSIONAL REGISTRATION

(State and Discipline)

Florida Professional Engineer – Number 94434

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

Schneider Electric Certification Course, Automatic Measurement Systems Post-Degree Course, Power Transformers Testing Post-Degree Course, Mathlab, AutoCAD 2019, LiveCount, Accubid Classic Estimating BidWinner Plus13, & Ladder Logic Programming

### 19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>Electrical Estimator</b> Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2017 - Present	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE	Check if project performed with current firm		
a.	<ul style="list-style-type: none"> <li>Review and prepare Price and Cost Proposals/Specifications, drawings, or customer requests to determine equipment requirements.</li> <li>Assist in project scheduling.</li> <li>Perform electrical inspections to determinate the status of the existing electrical distribution system Components, such as electrical panels, generators, feeders, branches, and devices on commercial buildings, in order to be able to prepare the electrical estimate.</li> <li>Review the labor rates to ensure accordance to contract specifications and check labor productivity to ensure allotted hours are appropriate in order to minimize working restrictions, overtime, etc.</li> <li>Develop low-voltage cost estimates for Estate Home Residential projects from provided engineering drawings for Fire Alarm, Access Control, Lutron Control Systems, Audio/Video (A/V), and Electrical. Identify deficiencies and/or questions, submit Requests for Information (RFIs) to the project team, and prepare conceptual and cost study estimates from preliminary sketches.</li> <li>Review and finalize Price and Cost Proposals for projects valued between \$5 Million &amp; \$25 Million.</li> <li>Estimate emergency systems, such as solar systems and generators for residential and commercial buildings. Submit material take-offs, review the specifications, and approve bill of materials from contract documents and drawings.</li> <li>Estimate, review the specifications, and submit material take-off for Electrical Vehicle (EV) chargers for residential and commercial buildings. Review the design from manufacturer requirements in order to be able to provide the electrical feed for EV charger.</li> <li>Estimate and submit material take-offs from contract documents and drawings.</li> <li>Perform as an AutoCAD drafter on residential and small building projects.</li> </ul>		



<b>(1) TITLE AND LOCATION</b> ( <i>City and State</i> ) <b>Senior Specialist and Electrical Project Manager at an Electrical Services Company</b> Havana, Cuba	<b>(2) YEAR COMPLETED</b>	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	2002 - 2016	
<b>(3) BRIEF DESCRIPTION</b> ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE	Check if project performed with current firm	
<b>b.</b>	<ul style="list-style-type: none"> <li>• Worked as the coordinator and supervisor of the Schneider Electric Certification process of Electrical Switch Gears.</li> <li>• Made project schedules and requirements for the designing, planning, and preparation phases.</li> <li>• Coordinated and supervised the installation of medium voltage underground networks.</li> <li>• Responsible for the installation and design of low-voltage electrical networks, surge protection device systems, lighting circuits, emergency networks, control panels, and distribution panels.</li> <li>• Mentored junior engineers and led progress meetings in order to coach them on their assigned projects.</li> <li>• Surveyed sites, recommended designs needed, identified problems where indicated, and decided the location of equipment.</li> <li>• Worked to minimize risk in buyout process and reduce project costs.</li> <li>• Worked to ensure that the project team understood all aspects of the prime contract relating to their respective responsibilities.</li> <li>• Provided shop drawings to the Design Team and technical solutions for electrical installations and equipment problems.</li> <li>• Designed electrical distribution systems for commercial buildings.</li> <li>• Prepared electrical-related scope documents, exhibits, budgets, specifications, schedules, and Requests for Proposal (RFPs).</li> <li>• Reviewed electrical discipline calculations and equations, including electric circuit calculations, 3-phase power and ampacity, impedance, and short circuit calculations.</li> <li>• Designed electrical specifications for projects and assisted with design, installation, and testing.</li> <li>• Provided emergency generator and automatic transfer switch design and installation.</li> <li>• Performed electrical load studies to determine the emergency generator capacity for commercial buildings.</li> <li>• Worked as an electrical specialist designing and coordinating the installation of generator batteries for synchronization with the national electric system.</li> </ul>	

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Sonny Abia, PhD, PE	Utility Coordinator	a. TOTAL 33	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) <b>HBC Engineering Company, Doral, FL</b>			
16. EDUCATION (Degree and Specialization) PhD in Civil Engineering – University of Miami MS in Civil Engineering – FIU BS in Civil Engineering - FIU		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline) Florida Professional Engineer Number 48190	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.) Temporary Traffic Control (TTC) Advanced Certification City & Guilds of London General Course in Construction Certification			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) <b>FDOT D4 SR-7/US-441 Transit Corridor Improvements</b>	(2) YEAR COMPLETED	
	Fort Lauderdale, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	2021		
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <b>X</b> Check if project performed with current firm QA/QC reviewer for the computations of all 3 phases of this Project, which involved the design of spread footings for pedestrian countdown signal poles using Matlab.		
b.	(1) TITLE AND LOCATION (City and State) <b>City of Miami Fire Station # 5</b>	(2) YEAR COMPLETED	
	Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	2020		
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <b>X</b> Check if project performed with current firm QA/QC reviewer for structural beam modification to accommodate the required fire truck clearance. This Project involved cutting existing concrete beam and reinforcing it with steel plates. Carried out the review of the structural analysis of existing beams and modified beam with steel plates added to supplement the reduced concrete section.		
c.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 FTE Wrong-Way Vehicle Detection System Implementation</b>	(2) YEAR COMPLETED	
	Miami, Fort Lauderdale, & West Palm Beach, FL	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	2019		
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <b>X</b> Check if project performed with current firm Dr. Abia is responsible for Quality Assurance/Quality Control (QA/QC) and utilities coordination. This Project involves Wrong-Way Vehicle Detection System (WWVDS) implementation along Florida's Turnpike Enterprise (FTE) ramps in Miami-Dade, Broward, and Palm Beach Counties to detect and deter vehicles from entering off-ramps and driving in the wrong direction of traffic. This Project also involves the design of Signage and Pavement Markings (S&PM).		

d.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>40 Years Recertification Inspection</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2018	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE <b>X</b> Check if project performed with current firm		
	This Miami-Dade County Project involved threshold inspections consisting of the condition of structures and other components at various locations and properties.		
e.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT and Miami-Dade County Highway Bridge Management QA/QC</b> Miami and Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE <b>X</b> Check if project performed with current firm		
	Project Manager (PM) for the design of a Bascule Bridge over the Intracoastal Waterway (ICWW) along Oakland Park Boulevard. Project Manager for the design and construction of the NE 2nd Avenue Bridge over the Miami Canal. Performed the QA/QC of structural computations by the Design Consultant. Project Manager/Reviewer for the Metro Rail extension on above-grade alignment for the Miami-Dade Expressway Authority (MDX) and several bridge widening projects, including noise wall and overhead Open Road Tolling (ORT) structures for the Homestead Extension of Florida's Turnpike (HEFT) signals/lighting projects that included poles and mast arms.		
f.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT &amp; MDC Highway Bridge Management QA/QC</b> Miami and Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2008	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Project Manager (PM) for the design of a bascule bridge over the ICWW along Oakland Park Blvd. PM & QA/QC reviewer for the design & construction of the NE 2nd Ave. bridge over Miami Canal. PM & QA/QC reviewer for the Metro Rail extension on above-grade alignment for the Miami-Dade Expressway Authority (MDX) & several bridge widenings.		
g.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>POP's Garage</b> Fort Lauderdale, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2002	
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Designed and completed single-story reinforced masonry and concrete structures. The design involved all components from site clearing to complete details of structural components. The design also included wind loads, strip foundations, walls, columns, beams, and roof anchors and straps in accordance with SFBC, ASCE-7, and ACI-318.		



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

(Complete one Section E for each key person)

<b>12. NAME</b> David Coker, EI	<b>13. ROLE IN THIS CONTRACT</b> Utility Coordinator	<b>14. YEARS EXPERIENCE</b>	
		<b>a. TOTAL</b> 5	<b>b. WITH CURRENT FIRM</b> 5
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>HBC Engineering Company, Doral, FL</b>			
<b>16. EDUCATION (Degree and Specialization)</b> BS in Civil Engineering, Florida International University - 2018		<b>17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)</b> Florida Engineering Intern - Number 1100023530	
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)</b> TTC Advanced #57886, IMSA Traffic Signal Technician Level 1 Certified, Drone Pilot, Miovision Cameras, and Synchro and Vissim proficiency.			
<b>19. RELEVANT PROJECTS</b>			
<b>a.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>FDOT D6 Beach Corridor Rapid Transit Project</b> Miami-Dade County, FL		<b>(2) YEAR COMPLETED</b>
			PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)
			Ongoing
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
HBC was part of the PD&E Study that analyzed connecting the Miami Design District and Downtown Miami to the Miami Beach Convention Center area. Traffic Engineer responsible for conducting traffic control analysis, by comparing measures of effectiveness at multiple signalized and unsignalized intersections, arterial corridors, and urban networks. Task was performed by supervising the data collection phase, which encompassed the set up and dismantling of Miovision Cameras to record Turning Movement Counts (TMC) and Automatic Traffic Recorder (ATR) tubes to record speed-volume data at key intersections. Responsibilities also included updating and processing results through Miovision's Data Link Software. Utilized the latest versions of Synchro and Vissim to analyze the effects of the interaction of multiple modes on the operational efficiency of any combination of roadway elements. Performed optimization and microsimulation of subject intersections to examine the operational and safety effects of various improvement options more closely, while simultaneously incorporating pedestrians, bicyclists, motor vehicles, and transit. Utilized transit microsimulation capabilities, such as transit signal priority, to optimize the balance between mobility and safety in both urban and rural scenarios.			
<b>b.</b>	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Miami-Dade County SMART Plan Bus Express Rapid Transit (BERT)</b> Miami-Dade County, FL		<b>(2) YEAR COMPLETED</b>
			PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)
			Ongoing
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm		
As part of the Strategic Miami Area Rapid Transit (SMART) program, the BERT project included significant data collection including transit operations, to support the microsimulation of transit operations and testing of various transit modes (bus, rail, elevated vs. at-grade) preferential lanes, and traffic signal prioritization schemes. Responsible for analyzing traffic control analysis by comparing measures of effectiveness at multiple signalized and unsignalized intersections, arterial corridors, and urban networks. Task was performed by supervising the data collection phase which			

encompassed the set up and dismantling of Miovision Cameras to record turning movement counts (TMC) and automatic traffic recorder (ATR) tubes to record speed-volume data at key intersections. Responsibilities also included updating and processing results through Miovision's Data Link Software. Utilized the latest versions of Synchro, and Vissim to analyze the effects of the interaction of multiple modes on the operational efficiency of any combination of roadway elements. Performed optimization and microsimulation of subject intersections to examine the operational and safety effects of various improvement options more closely, while simultaneously incorporating pedestrian, bicycle, motor vehicles and transit. Utilized transit microsimulation capabilities such as transit signal priority to optimize the balance between mobility and safety in both urban and rural scenarios.

	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Hialeah Freight Study</b> Hialeah, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
c.	The Hialeah Freight Analysis is part of a regional planning effort to facilitate freight movement in Miami-Dade County. District 6 investigated freight corridors within the City of Hialeah and surrounding areas to develop a plan of alternatives that enhance freight connectivity and minimize transportation conflicts. Primary responsibility was data collection. This effort included AM peak, Mid-day peak, and PM peak weekday Turning Movement Counts at 29 intersections in. The counts were conducted at all movements for each intersection (including special movements such as fly over ramps) utilizing MioVision Scout cameras. Data collection also included volume and full vehicle classification, including bicycles and pedestrians on crosswalks, and bicycles on the road.		
	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Lincoln Gardens Traffic Impact Study</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2019	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
d.	Lincoln Gardens, LLC is a new multi-family residential development located on nine acres between NW 24th and 25th Avenue and West, 46th and 48th Street to the North in unincorporated Miami-Dade County. HBC Engineering Company has completed the traffic impact study for submittal to the Miami Dade County Department of Transportation & Public Works. The purpose of the study is to assess the project's impact on the surrounding transportation network and determine if adequate capacity is available to support this residential development's future demand. Data collection efforts for this project includes volume growths, volume to capacity analysis, trip generation, queue analysis and future traffic evaluation.		
	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Red Road Pedestrian Crosswalk Analysis</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
e.	HBC Engineering Company was retained to conduct a pedestrian crosswalk analysis in the vicinity of the intersection of SR 959/Red Road/SW 57th Avenue (Red Road) at SW 19th Street and Cadiz Avenue in Miami Dade County, Florida. As part of the traffic study, data collection services were rendered for: 72-hour traffic counts in 15-minute increments, vehicular and pedestrian 8-hour turning movement counts, pedestrian counts and group size and vehicle gap measurements.		

# Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Teodoro Tefel, PE	Quality Assurance/Quality Control (QA/QC) Manager	a. TOTAL 33	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) <b>HBC Engineering Company, Doral, FL</b>			
16. EDUCATION (Degree and Specialization) BS in Civil Engineering, Florida International University - 1987		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline) Florida Professional Engineer Number 50106	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 Districtwide Resurfacing Scoping Reports</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
	2020	Ongoing	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Engineer of Record (EOR) responsible for preparing districtwide resurfacing scoping reports by analyzing the existing conditions to determine deficiencies and establish or substantiate the project purpose and need. Also developed project alternatives to satisfy the identified deficiencies or needs within the corridor. The evaluation of other alternatives includes transit or transportation system improvement options. Most deliverables are preliminary cost sections based on the engineer's estimates, preliminary drainage analysis and plans, roadway conceptual plans, approved typical section package, and design variations/exceptions sections.			
b.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 SR-25/US-27/Okeechobee Road from Miami-Dade County Line to SR-826</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
	2020	Ongoing	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Senior Engineer responsible for the review of roadway design plans for the reconstruction of this 10-mile section, including four major interchanges.			
c.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 In-House Consultant Under the General Engineering Consultant Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
	2016	2020	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm			
In-house consultant engineer for the review of design variations/exceptions and typical section packages for approval by the District Design Engineer. Performed coordination with consultant firms.			

d.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D6 Express Lanes on SR-826 from Flagler Street to NW 154<sup>th</sup> Street &amp; SR-93/I-75 from SR-826 to NW 170<sup>th</sup> Street</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2014	2015
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Project Engineer for this 14-mile preliminary engineering project. The design included reconstruction, widening, and milling and resurfacing of SR-826, I-75, and frontage roads, as well as the construction of a two-lane SR-826/I-75 flyover connector.		
e.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D6 SR-826/SR-836 Interchange Reconstruction (Section 5)</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2013	2016
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Senior roadway engineer for plans reviews of major and complex limited access facilities. The SR-826/SR-836 Interchange is a 4-level, system to system interchange in Miami-Dade County.		
f.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D4 SR-15 Over Hillsboro Canal Lift Out Span Deck Replacement</b> Boca Raton, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2013	2014
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Served as Engineer of Record (EOR) for Signing and Pavement Marking (S&PM) Plans and design of the Temporary Traffic Control Plans (TTCs).		
g.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>USACE Tamiami Trail west of Krome Avenue from MP 13.868 to MP 24.618</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2009	2010
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Served as Engineer of Record (EOR) for new construction and the widening and milling and resurfacing of Tamiami Trail. Design components included roadway, drainage, signing and pavement markings, and bridge.		
h.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D6 NE 203rd St. &amp; SR-5/Biscayne Blvd. Interchange Improvements</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2005	2006
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Engineer of Record (EOR) of the original Phase 2 for the reconstruction of ramps and the widening and milling and resurfacing of SR-5, NE 203rd Street, and West Dixie Highway. Design components included roadway, drainage, signing and pavement markings, signalization, structures, and landscaping.		



## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Edgar Diaz, MS, PE	Constructability Reviewer	a. TOTAL	b. WITH CURRENT FIRM
		36	13
15. FIRM NAME AND LOCATION (City and State)			
<b>HBC Engineering Company</b> , Doral, FL			
16. EDUCATION (Degree and Specialization)		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline)	
Master of Science in Civil Engineering, Florida International University - 1999		Professional Engineer, Florida - No. 50728	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
Advanced Maintenance of Traffic Training, OSHA 30-Hour Certificate			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>SR-713/Kings Hwy. from Okeechobee Rd. to N. I-95 Overpass</b>	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	Broward County, FL	2014	
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	EOR responsible for the lighting design of approximately 3.3 miles of roadway reconstruction and retrofitting multiple signalized intersection.		
b.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>SR-A1A from South of Jasmine Ln. to North of SR-60/Beachland Blvd.</b>	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	Indian River County, FL	Ongoing	
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	Project consisted of milling and resurfacing, repairing damaged sidewalk, adding bike lanes, constructing sidewalk on east side at gap location, signalized intersection lighting retrofit at SR A1A and Beachland Boulevard, and lighting for two new midblock crosswalks on SR A1A at Iris Ln. and Dahlia Ln.		
c.	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	<b>NE 2nd Ave. Design-Build Project from NE 69th St. to NE 84th St.</b>	PROFESSIONAL SERVICES      CONSTRUCTION (if applicable)	
	Miami-Dade County, FL	2019	
	(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm		
	This project included the additions of decorative lighting throughout the corridor. Overall project required design for drainage, lighting, signalization, and roadway reconstruction, as well as public involvement. This consisted of the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, sidewalk reconstruction, new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, Signing and Pavement Marking (S&PM), and preparation of TTCP. Coordination was also made between all design disciplines.		

d.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-80/Southern Blvd. from West of Lion Country Safari Road to Forest Hill Blvd</b> Broward County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2016	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	EOR responsible for the signalization design of 4 signalized intersections (Lion Country Safari Road, Binks Forest Drive, Big Blue Trace, Palms West Parkway) for this widening and resurfacing project all 4 signals required replacements. The design required coordination with Palm Beach County the maintenance agency. There are 4 PTMS count station/sites that will be replaced. Design activity includes MOT signal design.		
e.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Street Lighting Inventory and Illumination Levels Study</b> City of Pembroke Pines, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	Establish Illumination Criteria and Minimum Illumination Levels. Compile detailed inventory and report on the quantity and type of existing street lighting. Prepare a photometric light study for all streetlights on City owned streets and presenting at a minimum the light intensity and uniformity. Developed a geodatabase of more than 3,000 FPL light poles using GIS tools. Evaluate and prioritize potential infrastructure improvements. Provide general guidelines for street lighting which denotes typical locations and spacing of roadway lighting. Prepare a Roadway Lighting and Policy Development Report. Review application of LED lighting. Create Resident Streetlight Request procedure. Develop a Roadway Lighting Policy and standard that can be applied to evaluate lighting along City streets.		
f.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-9/I-95 from South of SR-614/Indrio Road to St. Lucie/Indian River County Line</b> St. Lucie County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2013	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	Engineer responsible for the design, quality control, and post design services for this roadway lighting Design-Build Project. Responsible design elements included roadway pole lighting, underdeck lighting, and sign lighting.		
g.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>North East Transit Hub Enhancements at 163rd Street Mall</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2015	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	Performed roadway and site development for the reconstruction of NE 167th Street from NE 14th Avenue to NE 15th Avenue and reconstruction and milling and resurfacing of NE 15th Avenue from NE 164th Street to NE 167th Street. Responsible for the preparation of construction documents, technical specifications, estimate of construction cost, dry run permitting, bid and award services, and design services during construction. Design elements included pavement, drainage, roadway, and pedestrian lighting, signing and pavement markings, signalization, landscaping, and utility coordination. Performed coordination and presentations with agencies and organizations including, but not limited to, MDT, DTPW, TARC, FDOT, City of North Miami Beach, appropriate permitting agencies and committees, 163rd Street Mall, and Wal-Mart.		

**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

1

**21. TITLE AND LOCATION (City and State)****Hurricane Risk Reduction Project**

New Orleans, Louisiana

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2009

CONSTRUCTION (If applicable)

2013

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

United States Army Corps of  
Engineers and City of New  
Orleans Hurricane Protection  
Office, USACE

**b. POINT OF CONTACT**

Victor Zillmer

**c. POINT OF CONTACT TELEPHONE NUMBER**

(903) 520-8749

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

Lead engineer for the design of the pivot structure for the new 150 ft long by pass floating gate or swing gate at the Gulf Intracoastal Waterway (GIWW). The gate is located within the new 1.8 mile long surge barrier built after hurricane Katrina. Design of reinforced concrete pivot column and structural steel pivot arm, equipped with built-in mechanisms to allow all 6 nautical movements of the floating gate, before is locked in the on or open position. Design of connection/anchorage of pivot arm to floating gate. Design of various ancillary structures including: piers for support of the gate in the open position, temporary fixed gate, temporary dock for remote concrete batch plant, concrete and steel staircases, ladders, and platforms. Specifications package. QC of massive reinforced concrete foundation mat or cap above 300 plus prestressed concrete piles to support the gate in the closed position, and design of the precast concrete floating swing gate with multiple partitions to progressively water ballast the gate in the closed or open position supports. The total construction cost is \$1.3 Billion.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

a.

**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

2

**21. TITLE AND LOCATION (City and State)****On Call Professional Engineering Services**

Monroe County, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

Various (See below)

CONSTRUCTION (If applicable)

Various (See below)

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

Monroe County, Florida

**b. POINT OF CONTACT**

Steve Sanders

**c. POINT OF CONTACT TELEPHONE NUMBER**

(305) 295-4338

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

Design, Rehabilitation and Repairs of timber boat docks and reinforced concrete boat ramps across the Florida Keys. Included geometric design and attachment of articulating block mats to prevent canal bed erosion due to boat propellers. Included design and selection of aluminum ladders, mooring piles, fenders, and cleats.

- Big Pine Key, emergency services boat dock reconstruction, existing pile capacity assessment, access ramp, rubble rip rap slope protection, and fencing **Professional Services: 2017 / Construction: 2019**
- Big Pine Key, structural design of new architectural welcome signs at the north and south ends **Professional Services: 2018 / Construction: 2018**
- Harry Harris Beach and Park, Tavernier Key, boat dock and boat ramps reconstruction **Professional Services: 2015 / Construction: 2016**
- Little Torch Key, boat docks reconstruction and reinforce concrete boat ramp repairs **Professional Services: 2015 / Construction: 2016**
- Big Coppitt Key new reinforced concrete finger pier and concrete boat ramp repairs **Professional Services: 2015 / Construction: 2019**

The total construction cost is \$2 Million.

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

<b>a.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
			Structural Engineer



## Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

(Complete one Section E for each key person)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Teodoro Tefel, PE	Quality Assurance/Quality Control (QA/QC) Manager	a. TOTAL 33	b. WITH CURRENT FIRM 2
15. FIRM NAME AND LOCATION (City and State) <b>HBC Engineering Company, Doral, FL</b>			
16. EDUCATION (Degree and Specialization) BS in Civil Engineering, Florida International University - 1987		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline) Florida Professional Engineer Number 50106	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.)			
19. RELEVANT PROJECTS			
a.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 Districtwide Resurfacing Scoping Reports</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
	2020	Ongoing	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Engineer of Record (EOR) responsible for preparing districtwide resurfacing scoping reports by analyzing the existing conditions to determine deficiencies and establish or substantiate the project purpose and need. Also developed project alternatives to satisfy the identified deficiencies or needs within the corridor. The evaluation of other alternatives includes transit or transportation system improvement options. Most deliverables are preliminary cost sections based on the engineer's estimates, preliminary drainage analysis and plans, roadway conceptual plans, approved typical section package, and design variations/exceptions sections.			
b.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 SR-25/US-27/Okeechobee Road from Miami-Dade County Line to SR-826</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
	2020	Ongoing	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm			
Senior Engineer responsible for the review of roadway design plans for the reconstruction of this 10-mile section, including four major interchanges.			
c.	(1) TITLE AND LOCATION (City and State) <b>FDOT D6 In-House Consultant Under the General Engineering Consultant Contract</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
	2016	2020	
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm			
In-house consultant engineer for the review of design variations/exceptions and typical section packages for approval by the District Design Engineer. Performed coordination with consultant firms.			

d.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D6 Express Lanes on SR-826 from Flagler Street to NW 154<sup>th</sup> Street &amp; SR-93/I-75 from SR-826 to NW 170<sup>th</sup> Street</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2014	2015
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Project Engineer for this 14-mile preliminary engineering project. The design included reconstruction, widening, and milling and resurfacing of SR-826, I-75, and frontage roads, as well as the construction of a two-lane SR-826/I-75 flyover connector.		
e.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D6 SR-826/SR-836 Interchange Reconstruction (Section 5)</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2013	2016
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Senior roadway engineer for plans reviews of major and complex limited access facilities. The SR-826/SR-836 Interchange is a 4-level, system to system interchange in Miami-Dade County.		
f.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D4 SR-15 Over Hillsboro Canal Lift Out Span Deck Replacement</b> Boca Raton, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2013	2014
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Served as Engineer of Record (EOR) for Signing and Pavement Marking (S&PM) Plans and design of the Temporary Traffic Control Plans (TTCs).		
g.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>USACE Tamiami Trail west of Krome Avenue from MP 13.868 to MP 24.618</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2009	2010
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Served as Engineer of Record (EOR) for new construction and the widening and milling and resurfacing of Tamiami Trail. Design components included roadway, drainage, signing and pavement markings, and bridge.		
h.	(1) TITLE AND LOCATION ( <i>City and State</i> ) <b>FDOT D6 NE 203rd St. &amp; SR-5/Biscayne Blvd. Interchange Improvements</b> Miami, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2005	2006
	(3) BRIEF DESCRIPTION ( <i>scope, size, cost, etc.</i> ) and SPECIFIC ROLE Check if project performed with current firm		
	Engineer of Record (EOR) of the original Phase 2 for the reconstruction of ramps and the widening and milling and resurfacing of SR-5, NE 203rd Street, and West Dixie Highway. Design components included roadway, drainage, signing and pavement markings, signalization, structures, and landscaping.		

# Standard Form 330: City of Fort Lauderdale RFQ # 12716-626: Consultant Services for Riverwalk North Seawall Replacement

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

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE		
Edgar Diaz, MS, PE	Constructability Reviewer	a. TOTAL 36	b. WITH CURRENT FIRM 13	
15. FIRM NAME AND LOCATION (City and State) <b>HBC Engineering Company, Doral, FL</b>				
16. EDUCATION (Degree and Specialization) Master of Science in Civil Engineering, Florida International University - 1999		17. CURRENTLY PROFESSIONAL REGISTRATION (State and Discipline) Professional Engineer, Florida - No. 50728		
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organization, Training, Awards, etc.) Advanced Maintenance of Traffic Training, OSHA 30-Hour Certificate				
19. RELEVANT PROJECTS				
a.	(1) TITLE AND LOCATION (City and State) <b>SR-713/Kings Hwy. from Okeechobee Rd. to N. I-95 Overpass</b> Broward County, FL	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
		2014		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
b.		EOR responsible for the lighting design of approximately 3.3 miles of roadway reconstruction and retrofitting multiple signalized intersection.		
		(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
(1) TITLE AND LOCATION (City and State) <b>SR-A1A from South of Jasmine Ln. to North of SR-60/Beachland Blvd.</b> Indian River County, FL		Ongoing		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.		Project consisted of milling and resurfacing, repairing damaged sidewalk, adding bike lanes, constructing sidewalk on east side at gap location, signalized intersection lighting retrofit at SR A1A and Beachland Boulevard, and lighting for two new midblock crosswalks on SR A1A at Iris Ln. and Dahlia Ln.		
		(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
(1) TITLE AND LOCATION (City and State) <b>NE 2nd Ave. Design-Build Project from NE 69th St. to NE 84th St.</b> Miami-Dade County, FL		2019		
(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
c.		This project included the additions of decorative lighting throughout the corridor. Overall project required design for drainage, lighting, signalization, and roadway reconstruction, as well as public involvement. This consisted of the addition of bike lanes, street parking, pavement reconstruction, an enhanced storm sewer system, curb and gutter repairs, sidewalk reconstruction, new pavement, horizontal and vertical geometry, side street and plateau intersection signalization, Signing and Pavement Marking (S&PM), and preparation of TTCP. Coordination was also made between all design disciplines.		
		(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	

d.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-80/Southern Blvd. from West of Lion Country Safari Road to Forest Hill Blvd</b> Broward County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2016	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	EOR responsible for the signalization design of 4 signalized intersections (Lion Country Safari Road, Binks Forest Drive, Big Blue Trace, Palms West Parkway) for this widening and resurfacing project all 4 signals required replacements. The design required coordination with Palm Beach County the maintenance agency. There are 4 PTMS count station/sites that will be replaced. Design activity includes MOT signal design.		
e.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Street Lighting Inventory and Illumination Levels Study</b> City of Pembroke Pines, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2021	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	Establish Illumination Criteria and Minimum Illumination Levels. Compile detailed inventory and report on the quantity and type of existing street lighting. Prepare a photometric light study for all streetlights on City owned streets and presenting at a minimum the light intensity and uniformity. Developed a geodatabase of more than 3,000 FPL light poles using GIS tools. Evaluate and prioritize potential infrastructure improvements. Provide general guidelines for street lighting which denotes typical locations and spacing of roadway lighting. Prepare a Roadway Lighting and Policy Development Report. Review application of LED lighting. Create Resident Streetlight Request procedure. Develop a Roadway Lighting Policy and standard that can be applied to evaluate lighting along City streets.		
f.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>SR-9/I-95 from South of SR-614/Indrio Road to St. Lucie/Indian River County Line</b> St. Lucie County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2013	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	Engineer responsible for the design, quality control, and post design services for this roadway lighting Design-Build Project. Responsible design elements included roadway pole lighting, underdeck lighting, and sign lighting.		
g.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>North East Transit Hub Enhancements at 163rd Street Mall</b> Miami-Dade County, FL	<b>(2) YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
		2015	
	<b>(3) BRIEF DESCRIPTION (scope, size, cost, etc.) and SPECIFIC ROLE</b> <b>X</b> Check if project performed with current firm		
	Performed roadway and site development for the reconstruction of NE 167th Street from NE 14th Avenue to NE 15th Avenue and reconstruction and milling and resurfacing of NE 15th Avenue from NE 164th Street to NE 167th Street. Responsible for the preparation of construction documents, technical specifications, estimate of construction cost, dry run permitting, bid and award services, and design services during construction. Design elements included pavement, drainage, roadway, and pedestrian lighting, signing and pavement markings, signalization, landscaping, and utility coordination. Performed coordination and presentations with agencies and organizations including, but not limited to, MDT, DTPW, TARC, FDOT, City of North Miami Beach, appropriate permitting agencies and committees, 163rd Street Mall, and Wal-Mart.		



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

3

**21. TITLE AND LOCATION (City and State)****Atlantic Dunes Park Seawall Replacement**

Delray Beach, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2020

CONSTRUCTION (If applicable)

2022

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

Delray Beach, Florida

**b. POINT OF CONTACT**

Isaac Kovner, PE

**c. POINT OF CONTACT TELEPHONE NUMBER**

(561) 243-7000

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

This project consisted of seawall replacements for the north and south sections of the park and other park improvements. The total construction cost is \$748,000.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

a.



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

4

**21. TITLE AND LOCATION (City and State)****H.D. King Seawall Replacement**

City of Ft. Pierce, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2016

CONSTRUCTION (If applicable)

2018

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

City of Ft. Pierce

**b. POINT OF CONTACT**

Jack Andrews, PE

**c. POINT OF CONTACT TELEPHONE NUMBER**

(772) 467-3773

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

This project consisted of designing of a total of 1000 LF of concrete seawall to replace existing on both sides of Moore's Creek Canal. The total construction cost is \$1.35 Million.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

**a.**



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

5

**21. TITLE AND LOCATION (City and State)****Gran Kaymen Seawall Replacement**

Hillsborough County, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2021

CONSTRUCTION (If applicable)

2022

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**Public Utilities Administration-  
Water Resources Dept.**b. POINT OF CONTACT**

Samantha Flores, PE

**c. POINT OF CONTACT TELEPHONE NUMBER**

(813) 459-9617

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

This project consisted of designing approximately 100 LF of concrete seawall to replace the existing in Kingston Canal, Apollo Beach, Florida. The total construction cost is \$247,147.

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

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>a.</b>			Structural Engineer



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

6

**21. TITLE AND LOCATION (City and State)****Upper Peace Legacy Trail**

Bartow, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2015

CONSTRUCTION (If applicable)

2016

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

FDOT District 1

**b. POINT OF CONTACT**

Ryan Weeks

**c. POINT OF CONTACT TELEPHONE NUMBER**

(863) 519-2837

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

This project consisted of designing a trail bridge (241 LF long x 13.5 LF wide) with added features to blend in with the surrounding scenic in John Hancock Lake, in Polk County, FL. This project also involved the design of 200 LF of permanent seawalls on both sides of the bridge that served to support bridge embankments. The total construction cost is \$600,000.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

a.



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

7

**21. TITLE AND LOCATION (City and State)****Gordon River Connector Bridge and Boardwalks**

Naples, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2016

CONSTRUCTION (If applicable)

2018

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**City of Naples Streets and  
Stormwater Department**b. POINT OF CONTACT**

Greg Strakaluse, PE

**c. POINT OF CONTACT TELEPHONE NUMBER**

(239) 213-5000

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

This project consisted of designing a three-span prestressed concrete bridge over Gordon River. In addition, IPE wood boardwalks were designed at bridge approaches in highly sensitive protected mangrove areas. Both boardwalks and bridge had LED lighting along stainless-steel railing. The total construction cost is \$3 Million.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

a.



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

8

**21. TITLE AND LOCATION (City and State)****Clam Bayou Recreational Trail Phase II – Bridges**

Saint Petersburg, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2010

CONSTRUCTION (If applicable)

2012

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

FDOT District 7

**b. POINT OF CONTACT**

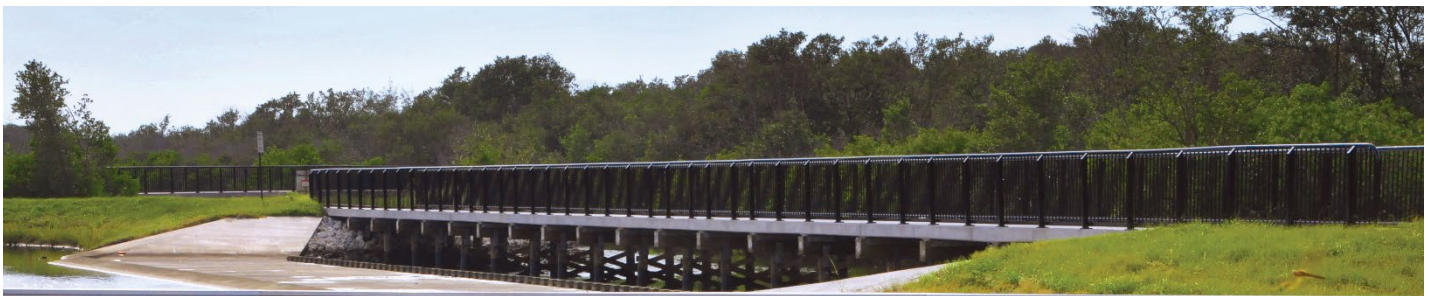
Duane Aldrich

**c. POINT OF CONTACT TELEPHONE NUMBER**

(727) 893-7238

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

This project consisted in the structural design of six trail bridges and seawalls in an environmental sensitive area in Saint Petersburg's Clam Bayou. This project was part of a LAP project with FDOT District 7. The total construction cost is \$1.7 Million.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

**a.**



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

9

**21. TITLE AND LOCATION (City and State)****Albert Pallot Park Shoreline Protection**

Miami, Florida

**22. YEAR COMPLETED**

PROFESSIONAL SERVICES

2014

CONSTRUCTION (If applicable)

2018

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

City of Miami

**b. POINT OF CONTACT**

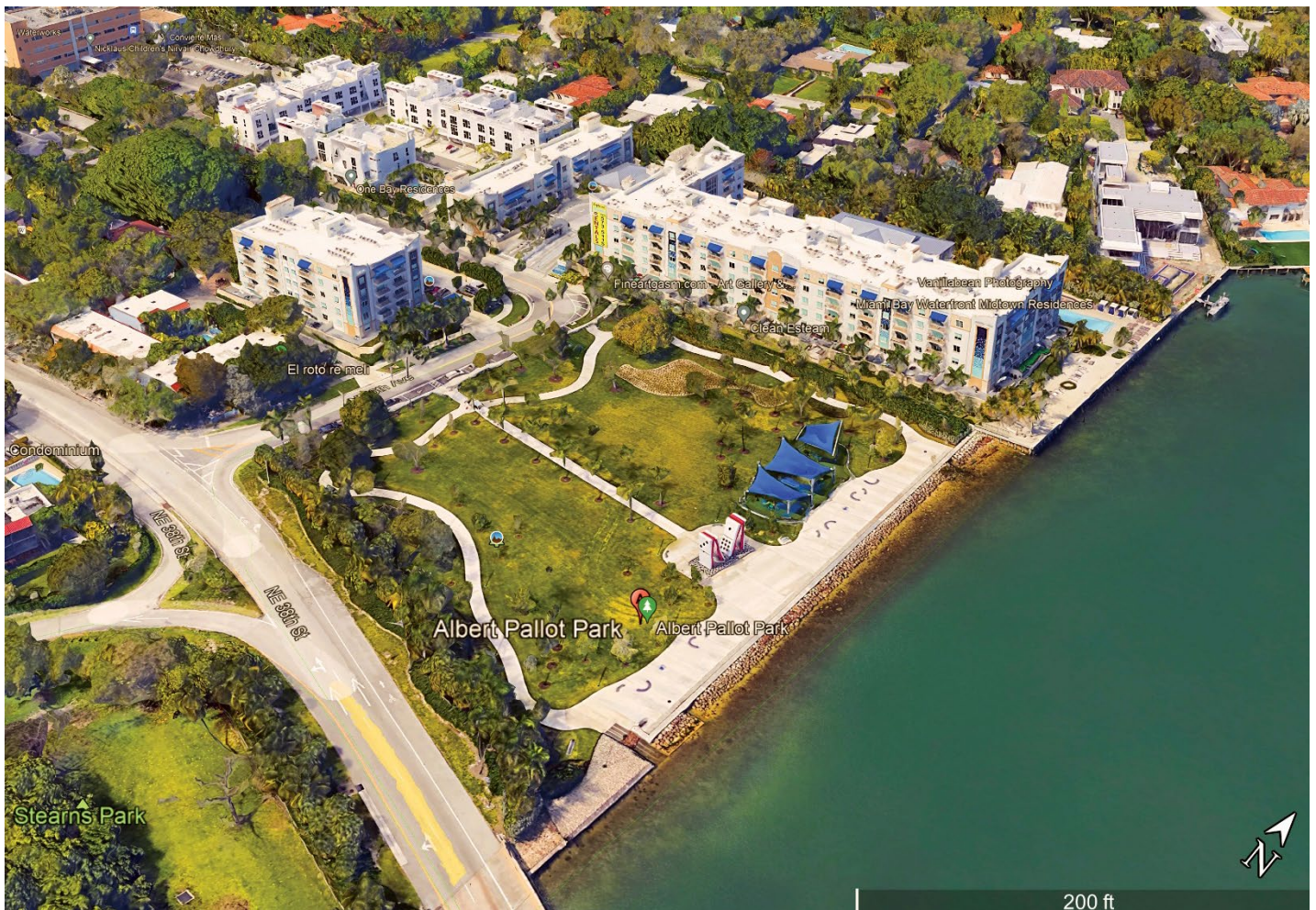
Sandra J Vega

**c. POINT OF CONTACT TELEPHONE NUMBER**

(305) 968-0802

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

This project consisted in the design and construction of a precast concrete seawall along the shoreline at Pallot Park, to stabilize the existing rubble rip rap slope protection. Environmental permit and mitigation were required for removal of mangroves on the shoreline. Upgrades to the park also included a new walkway and kayak launch. Openings in the seawall were provided to accommodate two drainage outfalls. The seawall was tied with existing seawalls by the Julia Tuttle Causeway in the south end and at an apartment building on the north end. The total construction cost is \$300,000.

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

(1) FIRM NAME

(2) FIRM LOCATION (City and State)

(3) ROLE

Structural Engineer

a.



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

10

**21. TITLE AND LOCATION (City and State)****West Avenue Bridge over Collins Canal**

Miami Beach, Florida

**22. YEAR COMPLETED**

## PROFESSIONAL SERVICES

2017

## CONSTRUCTION (If applicable)

2017

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

Miami Beach Public Works Dept.

**b. POINT OF CONTACT**

Giancarlo Peña, PE, CGC

**c. POINT OF CONTACT TELEPHONE NUMBER**

(305) 546-2943

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

Design Build Project. Design and post design services for construction of the West Avenue Bridge over Collins Canal, a new crossing. Design of substructure over augercast piles using STADD Pro software, and design of superstructure consisting of FDOT Florida Slab Beams (FSB) composite with slab, a FDOT developmental standard, using FDOT Mathcad program. The bridge is on a maximum skew of 30°, with 3 vertical curves (centerline and gutter lines) and 2 consecutive horizontal curves. Analysis of existing seawalls to remain, 12"x 12" vertical and battered piles at 9 ft centers with precast concrete panels behind, approximately 6 ft in front of abutment and auger cast piles. Design of substructure for new pedestrian bridge over Collins Canal at Lincoln Ct. The total construction cost is \$10 Million.

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

## (1) FIRM NAME

## (2) FIRM LOCATION (City and State)

## (3) ROLE

Structural Engineer

a.



**Standard Form 330: City of Ft. Lauderdale, Bid RFQ 12716-626****F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

11

**21. TITLE AND LOCATION (City and State)****Crandon Park Marina Boat Ramp Repairs**

Miami Dade County, Florida

**22. YEAR COMPLETED**

## PROFESSIONAL SERVICES

2015

## CONSTRUCTION (If applicable)

2017

**23. PROJECT OWNER'S INFORMATION****a. PROJECT OWNER**

Miami Dade County

**b. POINT OF CONTACT**

Byron Dowell

**c. POINT OF CONTACT TELEPHONE NUMBER**

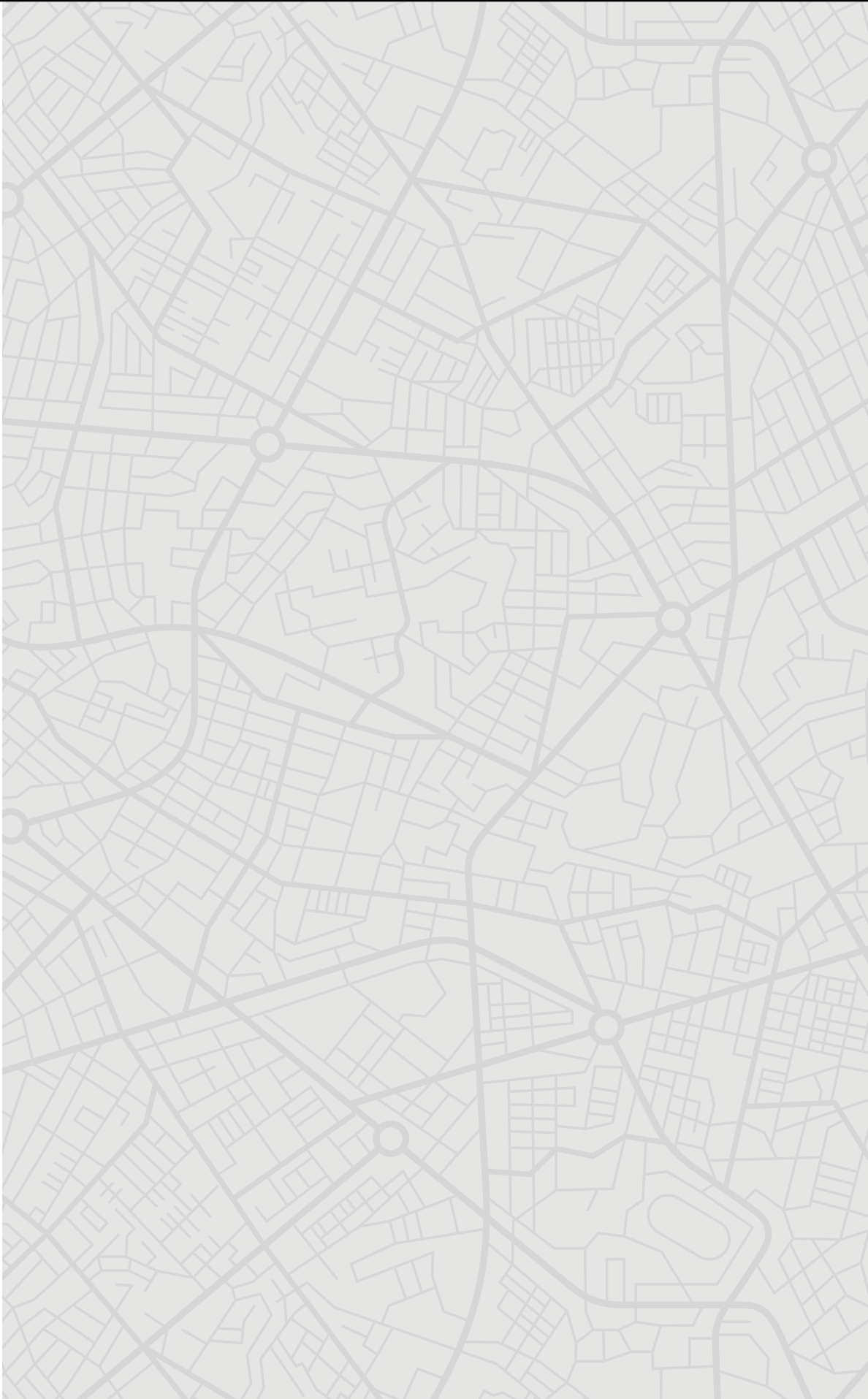
(305) 338-1688

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

Post Design Services. Repair of eight (8) reinforced concrete pier decks and installation of new plastic lumber rub rails and fender piles. Included repairs to concrete tied back bulkhead or seawall, and replacement of reinforced concrete deck with prestressed concrete deck in walkway connecting seawall land side with pier no. 1. The total construction cost is \$470,000.

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

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
			Structural Engineer



CITY OF FORT LAUDERDALE

9/29/2023

BidSync

**HBC** Engineering  
Company

CAM #23-0852  
Exhibit B  
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**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT**

(Complete one Section E for each key person.)

12. NAME Brian Voelker, M.S., SPWS, C.A., CLI	13. ROLE IN THIS CONTRACT Environmental Permitting Engineer	14. YEARS EXPERIENCE a. TOTAL 25      b. WITH CURRENT FIRM <1	
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL			
16. EDUCATION (Degree and Specialization) Bachelor of Science / Environmental Studies Master of Science / Coastal Zone Management, Marine Biology		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) / FAA Drone Remote Pilot / SWS Professional Wetland Scientist / ISA Certified Arborist / ISA Tree Risk Assessment Qualification	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Voelker is a senior scientist specializing in natural resource assessments and permitting, as well as certified arborist services. He provides numerous ecological services to clients, including the following: wetland delineation, function evaluation, mitigation design, monitoring, and permitting; upland habitat assessments; coastal habitat assessments and permitting; marine and estuarine habitat assessments and permitting; protected wildlife assessments and permitting; GPS data collection/mapping and GIS database development; NEPA document preparation and oversight; sediment and erosion control monitoring.			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
a. (1) TITLE AND LOCATION (City and State) Lift Station 61 Rehabilitation Pompano Beach, FL	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) 2022
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Scientist. CMA is providing professional engineering services on the Pompano Beach Lift Station #61 Rehabilitation Project. CMA will provide site investigation, hydraulic analysis, engineering design services, regulatory permitting, and limited construction administration for this project. CMA will review and evaluate all available topographic surveys, atlases, design drawings, and/or record drawings for the existing facilities at Lift Station #61 to determine the configuration of existing	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) Coconut Creek Lakeside Park Improvements Coconut Creek, FL	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Scientist. CMA is providing professional civil engineering and landscape architecture services for the Coconut Creek Lakeside Park Improvements.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) Reservoir/Stormwater Treatment Area Project Engineering During Construction Services	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Specialist. CMA is providing professional engineering services to HDR Engineering, Inc during construction services for the C-44 Reservoir/Stormwater Treatment Area Project. Services shall include a comprehensive Grassing Management Strategy for the C-44 Reservoir for the associated maintenance of grass, a site visit followed by a delivered baseline video and site visit report, soil sampling of the C-44 Reservoir followed by a delivered Preliminary and Final Diagnostics Reports with results, a delivered Grassing Management Strategy and responses to QA questions from HDR and the U.S. Army Corps of Engineers Design Review Team.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) Gaines Park - Community and Tennis Center West Palm Beach, FL	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Scientist. The project scope assumes total renovation of the community center including the demolition and reconstruction of significant portions of the current building, as well as the design of a new tennis center incorporating six (6) tennis courts and four (4) to six (6) pickle ball courts. CMA's scope of work includes preparation of the project site plan; civil design; utilities design and permitting; landscape design; and supporting permitting and construction administration services. CMA assumes the project will require new utility connections to the buildings, pedestrian connection adjustments, resurfacing and restriping of the existing parking areas; hardscape, landscape, wayfinding, and irrigation improvements; and modification of the stormwater infrastructure.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) NE 96th Street Alley Conversion Town of Bay Harbour Islands, FL	PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Environmental Scientist. CMA is providing civil engineering services for the above referenced project at NE 96th Street within the Town of Bay Harbor Islands, FL. The project consists of converting the alley behind the existing Public Works facilities for one-way vehicular use.	<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 Daniel Davila, P.E.	13. ROLE IN THIS CONTRACT Environmental Permitting Engineer	14. YEARS EXPERIENCE	
		a. TOTAL 23	b. WITH CURRENT FIRM 11
15. FIRM NAME AND LOCATION <i>(City and State)</i> Chen Moore and Associates, Fort Lauderdale, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> FL / Professional Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Davila has experience on numerous private and public clients that range from residential developers, industrial developers, municipalities, federal agencies, hospitals, universities, and educational institutions. His experience includes planning and design of stormwater systems, water and wastewater facilities, facilities planning, utilities master planning, infrastructure renewal, roadway design, and construction management. He has been the contract manager for small projects as well as large complex projects managing millions of dollars in design fees and several subconsultants.			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION <i>(City and State)</i>		(2) YEAR COMPLETED	
TO-01 South River Forcmain Crossing Ft Lauderdale, FL		PROFESSIONAL SERVICES 2019	CONSTRUCTION <i>(If Applicable)</i> 2020
a.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Supervisor. CMA prepared the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. This project included approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA prepared the DCP and has permitted the HDD with Broward County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA also provided bidding assistance for this project.		
(1) TITLE AND LOCATION <i>(City and State)</i> TO-02 Bayshore Drive Intracoastal Crossing Forcmain Ft Lauderdale, FL		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If Applicable)</i> 2021
b.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. CMA prepared a Design Criteria Package for the City of Fort Lauderdale. The City owns and operates 4,420 linear feet of 20" diameter wastewater force main which includes 650 feet of subaqueous crossing under the Intracoastal Waterway.. The City has experienced several pipeline failures over the years and determined the force main needed to be rehabilitated and or replaced. CMA also provided permitting services, geotechnical investigations, bidding assistance, topographic and bathymetric survey, and services during construction.		
(1) TITLE AND LOCATION <i>(City and State)</i> TO-03 Force Main Upsize From D-36 to D-35 Ft Lauderdale, FL		PROFESSIONAL SERVICES 2021	CONSTRUCTION <i>(If Applicable)</i> 2021
c.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. The project consists in the replacement of an 8" and 10" diameter wastewater force main to be upsized to a 14" HDPE force main. The force main conveys flow from Pumping Station D-36 along SE 19th Place and Harbor Inlet Drive to Pumping Station D-35. It is located in a busy residential neighborhood abutting SE 17th Street one of the major corridors along the coast in Fort Lauderdale. The force main connects to and existing 24" force main in SE 17th Street, which is an FDOT road. The total force main is approximately 3,000 linear feet long.		
(1) TITLE AND LOCATION <i>(City and State)</i> TO-04 - P12378 North Beach Parking Lot Ft Lauderdale, FL		PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If Applicable)</i> 2022
d.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. CMA is providing engineering design services, permitting, bidding and post design services for the North Beach Village Parking Lot. The proposed parking lot will be on approximately 1.5 acres of land and it will have an approximately 154 spaces of automobile parking spaces and 7 ADA parking spaces. The project should include one access driveway to Vistamar Street, at least one pedestrian access from the sidewalk to the parking lot on each street, concrete pad for bicycle parking, on-site retention basin, landscape and lighting per municipal code. CMA will perform preliminary investigation; construction documents; regulatory agency permitting and coordination; environmental permitting and coordination; bidding services; and post design services.		
(1) TITLE AND LOCATION <i>(City and State)</i> TO-05 SW 2nd Ave Parking Improvements Fort Lauderdale, FL		PROFESSIONAL SERVICES 2022	CONSTRUCTION <i>(If Applicable)</i> 2022
e.	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager. CMA is providing engineering design services, permitting, bidding and post design services for parking improvements on SW 2nd Avenue. The proposed parking improvements will convert two existing sodded medians with no curbing into angled parking and will create approximately 40 new public parking spaces. The project will also include speed humps, cross walks, minor landscaping improvements at the ends of the islands and stormwater drainage. CMA is providing preliminary investigation; construction documents; regulatory agency permitting and coordination; and bidding services.		



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

(Complete one Section E for each key person.)

12. NAME Cristobal Betancourt, PLA, AICP	13. ROLE IN THIS CONTRACT Landscape Architect	14. YEARS EXPERIENCE a. TOTAL 27      b. WITH CURRENT FIRM 11	
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, West Palm Beach, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Landscape Architecture Master of Science / Urban Design		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / Registered Landscape Architect	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Betancourt is CMA's Vice President of Landscape Architecture and Planning. He has experience providing planning and landscape architecture design solutions for public and private sector clients. His team provides a full range of services starting with due diligence and master planning culminating in detailed site design. He is well versed in the use of low-impact development techniques specifically applied to site planning, has knowledge of local municipal codes, and is proficient in Florida's plant palette, local environmental conditions, and site-specific microclimates used to prepare aesthetic and functioning landscape designs.			
<b>19. RELEVANT PROJECTS</b>			
a.	(1) TITLE AND LOCATION (City and State) Fort Lauderdale Beach Park Fort Lauderdale, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012      CONSTRUCTION (If Applicable) 2012	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. The purpose of this project was to provide the restoration and enhancement of the City-owned 6.5-acre "South Beach" parking lot, located along SR A1A, south of Las Olas Boulevard. The scope of work includes bringing the parking lot into ADA compliance per requirements of consent decree, replacing a deteriorating low profile wall and sidewalk approximately 2100 feet in length, replacing existing lighting with turtle-compliant fixtures, and designing additional landscaping.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TITLE AND LOCATION (City and State) SE 15th St Boat Launch & Marine Complex Fort Lauderdale, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012      CONSTRUCTION (If Applicable) 2015	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Landscape Architect. As part of its general civil engineering contract, Chen Moore and Associates was asked to design and permit upgrades to the parking lot located at 1784 SE 15th Street. The property covers approximately 29,000 SF and has two boat ramps, a marina and the police water unit building. The scope of services includes removing the existing fixed docks and replacing them with new floating concrete docks for City use and proposing drainage and lighting upgrades to bring the lot up to City Code compliance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) TITLE AND LOCATION (City and State) Dixie Highway Improvement Project Streetscape Plan Fort Lauderdale, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2012      CONSTRUCTION (If Applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. CMA developed a streetscape master plan for Dixie Highway in the Middle River Terrace Neighborhood of Fort Lauderdale, Florida. CMA was contracted by the City to work with the local homeowners association who received a grant to fund the development of a complete streets master plan. The neighborhood was developed prior to many current planning and zoning standards being implemented in the City, as a result, the community had concerns about unsafe conditions for pedestrians and bicyclists due to unregulated land development patterns.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) TITLE AND LOCATION (City and State) B-22 Pumping Station Replacement City of Ft. Lauderdale	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2022      CONSTRUCTION (If Applicable) 2022	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Landscape Architect. CMA is providing engineering design services, permitting, bidding, and post design services for the replacement of a duplex waste water station with a prefabricated submersible package station. CMA is also providing construction documents for landscaping, including mitigation for removal and/or relocation of trees, water service connection, pavement restoration plans, grading, and stormwater pollution prevention plan, as well as permitting for water use and construction of wastewater system with the applicable regulatory agencies. The existing pump station is located within a few feet of a seawall and dewatering calculations as well as construction feasibility are included in the scope.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) TITLE AND LOCATION (City and State) NW 15th Avenue Streetscape City of Ft. Lauderdale	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2021      CONSTRUCTION (If Applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Landscape Architect. The City has requested that CMA provide professional services to enhance the performance and aesthetic condition of NW 15th Avenue. The scope of work is primarily identified as developing and implementing a Complete Streets approach to the corridor to enhance safety and aesthetics for the community. Specific instruments to be included are traffic calming, a shared use path, sidewalk improvements, bring the corridor up to current Americans with Disabilities Act (ADA) standards, crosswalks, pedestrian lighting, landscape islands, landscape enhancements, and street furnishings.	<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 Eric Harrison, PLA	13. ROLE IN THIS CONTRACT Landscape Architect	14. YEARS EXPERIENCE	
		a. TOTAL 19	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION <i>(City and State)</i> Chen Moore and Associates, West Palm Beach, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Bachelor of Science / Landscape Architecture Associate of Arts /		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> FL / Registered Landscape Architect	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Harrison is a senior landscape architect for CMA's landscape architecture team. He is proficient in Florida's plant palette, local environmental conditions, and site-specific microclimates used to prepare aesthetic and functioning landscape designs. Mr. Harrison is well versed in the use of low-impact development techniques specifically applied to site planning, and has extensive experience with parks and recreation facilities throughout Florida for public and private sector clients, providing design, permitting, and construction observation services for many types of improvements.			

**19. RELEVANT PROJECTS**

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
a.	(1) SE 15th St Boat Launch & Marine Complex	2012	2015
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape Architect. As part of its general civil engineering contract, Chen Moore and Associates was asked to design and permit upgrades to the parking lot located at 1784 SE 15th Street. The property covers approximately 29,000 SF and has two boat ramps, a marina and the police water unit building. The scope of services includes removing the existing fixed docks and replacing them with new floating concrete docks for City use and proposing drainage and lighting upgrades to bring the lot up to City Code compliance.	<input checked="" type="checkbox"/> Check if project performed with current firm	
b.	(1) TO-05 SW 2nd Ave Parking Improvements Fort Lauderdale, FL	2022	2022
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape Architect. CMA is providing engineering design services, permitting, bidding and post design services for parking improvements on SW 2nd Avenue. The proposed parking improvements will convert two existing sodded medians with no curbing into angled parking and will create approximately 40 new public parking spaces. The project will also include speed humps, cross walks, minor landscaping improvements at the ends of the islands and stormwater drainage. CMA is providing preliminary investigation; construction documents; regulatory agency permitting and coordination; and bidding services.	<input checked="" type="checkbox"/> Check if project performed with current firm	
c.	(1) B-22 Pumping Station Replacement City of Ft. Lauderdale	2022	2022
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape Architect. CMA is providing engineering design services, permitting, bidding, and post design services for the replacement of a duplex waste water station with a prefabricated submersible package station. CMA is also providing construction documents for landscaping, including mitigation for removal and/or relocation of trees, water service connection, pavement restoration plans, grading, and stormwater pollution prevention plan, as well as permitting for water use and construction of wastewater system with the applicable regulatory agencies. The existing pump station is located within a few feet of a seawall and dewatering calculations as well as construction feasibility are included in the scope.	<input checked="" type="checkbox"/> Check if project performed with current firm	
d.	(1) NW 15th Avenue Streetscape City of Ft. Lauderdale	2021	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape Architect. The City has requested that CMA provide professional services to enhance the performance and aesthetic condition of NW 15th Avenue. The scope of work is primarily identified as developing and implementing a Complete Streets approach to the corridor to enhance safety and aesthetics for the community. Specific instruments to be included are traffic calming, a shared use path, sidewalk improvements, bring the corridor up to current Americans with Disabilities Act (ADA) standards, crosswalks, pedestrian lighting, landscape islands, landscape enhancements, and street furnishings.	<input checked="" type="checkbox"/> Check if project performed with current firm	
e.	(1) JM Family Enterprises Facility-Deerfield Beach Deerfield Beach, FL	2022	2022
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Landscape Architect. CMA is providing landscape architecture services as a subconsultant to PGAL Associates for the JM Family Enterprises campus renovation and expansion in Deerfield Beach. CMA is developing campus-wide landscape and hardscape plans to support the construction of the new facilities. Services include design development, construction documents and permitting. The project is being launched to attract new generations of workers and marks JM Family's 50th anniversary.	<input checked="" type="checkbox"/> Check if project performed with current firm	

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

**20. EXAMPLE PROJECT KEY NUMBER**

1

**21. TITLE AND LOCATION (City and State)**

Fort Lauderdale Beach Park

**22. YEAR COMPLETED**

 PROFESSIONAL SERVICES  
2012

 CONSTRUCTION (if Applicable)  
2012

**23. PROJECT OWNER'S INFORMATION**
**a. PROJECT OWNER**

City of Fort Lauderdale

**b. POINT OF CONTACT NAME**

Donald Morris

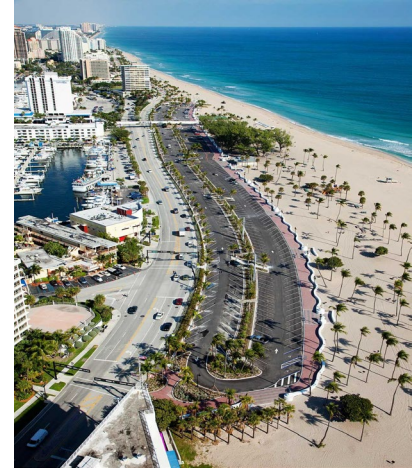
**c. POINT OF CONTACT TELEPHONE NUMBER**

954-468-1516

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

The purpose of this project was to provide the restoration and enhancement of the City-owned 6.5-acre "South Beach" parking lot, located along SR A1A, south of Las Olas Boulevard. The scope of work includes bringing the parking lot into ADA compliance per requirements of consent decree, replacing a deteriorating low profile wall and sidewalk approximately 2100 feet in length, replacing existing lighting with turtle-compliant fixtures, and designing additional landscaping. Chen Moore and Associates prepared the required DRC submittal, which included all required public purpose approvals, as well as a conceptual layout of a new entrance at the southern end of the parking lot. This project was a joint effort between various City departments, including the City of Fort Lauderdale Beach Community Redevelopment Agency and Parking Services.

CMA coordinated the pre-construction historical site review. Upon discovery of the artifacts, CMA worked with the contractor to provide on-site supervision for all underground operations.


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

<b>a.</b>	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
<b>b.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>c.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>d.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>e.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
<b>f.</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

2

21. TITLE AND LOCATION (City and State)

TO-01 South River Forcemain Crossing  
Ft Lauderdale, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2019

CONSTRUCTION (if Applicable)  
2020

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Daniel Fisher

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-5850

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

CMA prepared the Design Criteria Package (DCP) for the South Middle River Force Main Crossing for the City of Fort Lauderdale, located along NE 19th Street / NE 21st Street between NE 22nd Avenue and Bayview Drive. The scope of work included preliminary design and permitting of approximately 2,200 LF of 16" HDPE sanitary sewer force main to replace the existing 12" cast iron pipe force main which is currently out of service. This project included approximately 1,410 LF of horizontal directional drill (HDD) of the 16" force main under the Middle River. CMA prepared the DCP and has permitted the HDD with Broward County, SFWMD, U.S. Army Corps of Engineers (ACOE), and FDEP. CMA also provided bidding assistance for this project.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

3

21. TITLE AND LOCATION (City and State)

TO-02 Bayshore Drive Intracoastal Crossing Forcemain (12389)  
Ft Lauderdale, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2022

CONSTRUCTION (if Applicable)  
2022

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

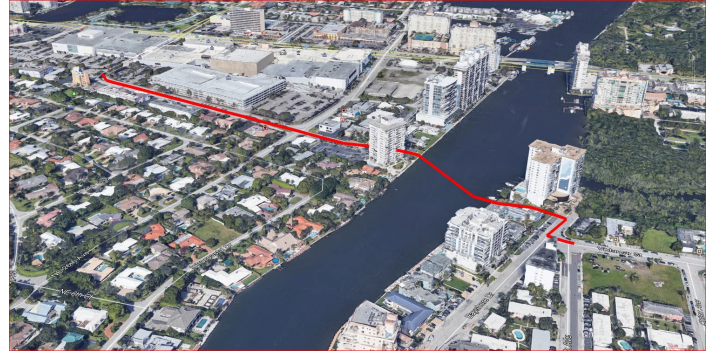
Daniel Fisher

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-5850

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

CMA prepared a Design Criteria Package for the City of Fort Lauderdale. The City owns and operates 4,420 linear feet of 20" diameter wastewater force main which includes 650 feet of subaqueous crossing under the Intracoastal Waterway. The forcemain conveys flow from Pumping Station D-40 and the surrounding area east to the intersection of Middle River Drive and NE 9th Street where it connects to a 48" diameter force main. The City has experienced several pipeline failures over the years and determined the force main needed to be rehabilitated and or replaced. CMA also provided permitting services, geotechnical investigations, bidding assistance, topographic and bathymetric survey, and services during construction.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

4

21. TITLE AND LOCATION (City and State)

TO-04 - P12378 North Beach Parking Lot (PP171887-4)  
Ft Lauderdale, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2022

CONSTRUCTION (if Applicable)  
2022

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Shiau Ching Low

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-3779

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

CMA is providing engineering design services, permitting, bidding and post design services for the North Beach Village Parking Lot. The proposed parking lot will be on approximately 1.5 acres of land and it will have an approximately 154 spaces of automobile parking spaces and 7 ADA parking spaces. The project should include one access driveway to Vistamar Street, at least one pedestrian access from the sidewalk to the parking lot on each street, concrete pad for bicycle parking, on-site retention basin, landscape and lighting per municipal code. CMA will perform preliminary investigation; construction documents; regulatory agency permitting and coordination; environmental permitting and coordination; bidding services; and post design services.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

5

21. TITLE AND LOCATION (City and State)

S. River Forcemain Crossing Design Review and CEI Services -  
Contract 466-11723-2

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2022

CONSTRUCTION (if Applicable)  
2022

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Diana Carrillo

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-5064

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

CMA prepared a Design Criteria Package (DCP) and performed Construction Engineering and Inspection (CEI) services for the City of Fort Lauderdale Public Works Department for the replacement and upsizing of approximately 1,860 linear feet of 12" sanitary sewer forcemain in the Bal Harbour / Coral Ridge neighborhoods.



The project included a 16" horizontal directional drill (HDD) under the South Middle River and upland open-cut installation along NE 19th Street from NE 22nd Avenue and NE 21st Street to Bayview Drive. CMA prepared the DCP which included plans and specifications. CMA also performed permitting services with Broward County and FDEP. CMA performed CEI services during the Design-Build phase, including plans review, full time field representation, and project closeout services. The Design-Build construction cost was approximately \$1.3 Million.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

6

21. TITLE AND LOCATION (City and State)

The Galt Ocean Mile - Streetscape Concepts - Project 12585 -  
PO PP190052-1  
point approximately 0.8 miles, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2022

CONSTRUCTION (if Applicable)  
2022

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Louis LaFaurie

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-6538

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

The purpose of this project is to develop a conceptual design and opinion of probable cost to upgrade and beautify the Galt Ocean Mile corridor, emphasizing traffic calming and bicyclist and pedestrian improvements. The scope is based on public engagement and concepts performed and developed by the City of Fort Lauderdale. The proposed upgrades include milling & resurfacing of roadway; re-striping; bike lanes; sidewalk widening; relocation of existing trees; replacement/addition of landscape material; new streetlight fixtures; decorative paver hardscape incorporated into sidewalks, unloading areas, & crosswalks; raised crosswalks and/or raised intersections; and landscape lighting.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

7

21. TITLE AND LOCATION (City and State)

TO-10 - P12470 - NW 15th Avenue Streetscape - City of Ft.  
Lauderdale 466-11723-2 - PP171887-11

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2021

CONSTRUCTION (if Applicable)  
2021

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Karen Warfel

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-3798

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

The City has requested that CMA provide professional services to enhance the performance and aesthetic condition of NW 15th Avenue. The scope of work is primarily identified as developing and implementing a Complete Streets approach to the corridor to enhance safety and aesthetics for the community. Specific instruments to be included are traffic calming, a shared use path, sidewalk improvements, bring the corridor up to current Americans with Disabilities Act (ADA) standards, crosswalks, pedestrian lighting, landscape islands, landscape enhancements, and street furnishings.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE



**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

8

21. TITLE AND LOCATION (City and State)

Currie Park - Architectural and Engineering Services (20862.002)  
West Palm Beach, FL

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2022

CONSTRUCTION (if Applicable)  
2023

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of West Palm Beach

b. POINT OF CONTACT NAME

Alexa Krahe

c. POINT OF CONTACT TELEPHONE NUMBER

561-822-1551

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

CMA is the prime consultant leading the redevelopment of Currie Park for the City of West Palm Beach. The project aims to enhance a public asset to provide a substantial public benefit increasing the health, welfare and economic vitality of the community. The 13.6 acre waterfront park currently consists of public open space including boat ramps with trailer parking, tennis courts, fishing pier, playground, a landmark memorial to commemorate the late Dr. Martin Luther King Jr., covered pavilions and restroom facilities. The Project is broken into two phases. CMA led the development Phase I which included Information Gathering, Public Engagement, and Visioning for the Project. In addition to Visioning, our team conducted a marina market analysis, developed a maintenance and operations plan, and identified public/private partnerships and other means of financing the construction and operation of Currie Park as part of Phase I services. The CMA team identified and assisted the City/CRA in applying for a \$20.3 million Building Resiliency Grant offered through the Florida Department of Economic Opportunity. The project was awarded \$16.74 million of the grant request. The Vision Plan was approved by the CRA Board and Commission on June 1, 2021.



CMA is currently planning Phase II activities which will include Construction Documentation, Permitting, and Construction Administration.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

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**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

9

## 21. TITLE AND LOCATION (City and State)

Downtown Coral Springs Streetscaping  
Coral Springs, FL

## 22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2015

CONSTRUCTION (if Applicable)  
2015

**23. PROJECT OWNER'S INFORMATION**

## a. PROJECT OWNER

City of Coral Springs

## b. POINT OF CONTACT NAME

Danielle Lima

## c. POINT OF CONTACT TELEPHONE NUMBER

954-344-1165

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

CMA was contracted by the City of Coral Springs to assist the Coral Springs CRA in the planning, design, permitting, and construction support of various streetscaping improvements in Downtown Coral Springs. As the prime consultants, CMA provided civil engineering, landscape architecture, environmental permitting, and construction engineering and inspection services for the project.

The project included implementing Complete Street concepts for NW 31st Court, NW 94th Avenue, and NW 32nd Street. Additionally, CMA implemented the culverting of the canal along NW 31st court to provide space for a linear park, called the "Art Walk", which is an important pedestrian connection between the downtown pathways project and The Walk development. Finally, the project included the implementation of turn lanes along Sample Road, median improvements in Sample Road, and minor improvements to adjacent alleyways and pedestrian pathways.



Overall, the project improved the walkable nature of Downtown Coral Springs, while tying together various aesthetic elements in advance of the City Hall project sited adjacent to the projects.

CMA was awarded a Florida Chapter of American Society of Landscape Architect's Merit Award for The Coral Springs Art Walk which is a flexible venue developed over an existing Sunshine Water Drainage Control District canal. It is reclaimed public space, which anchors the City's new Municipal Complex. The Art Walk hosts the City's Green Market, special events, and has rotating public art displays throughout the year.

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

a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
	Chen Moore and Associates	Fort Lauderdale, FL	Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

STANDARD FORM 330 (7/2021) PAGE 3

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S****QUALIFICATIONS FOR THIS CONTRACT**

(Present as many projects as requested by the agency, or 10 projects, if not specified.  
Complete one Section F for each project.)

20. EXAMPLE PROJECT  
KEY NUMBER

10

21. TITLE AND LOCATION (City and State)

Emergency Bypass 48" Forcemain

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
2021

CONSTRUCTION (if Applicable)  
2021

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER

City of Fort Lauderdale

b. POINT OF CONTACT NAME

Omar Castellon

c. POINT OF CONTACT TELEPHONE NUMBER

954-828-5064

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



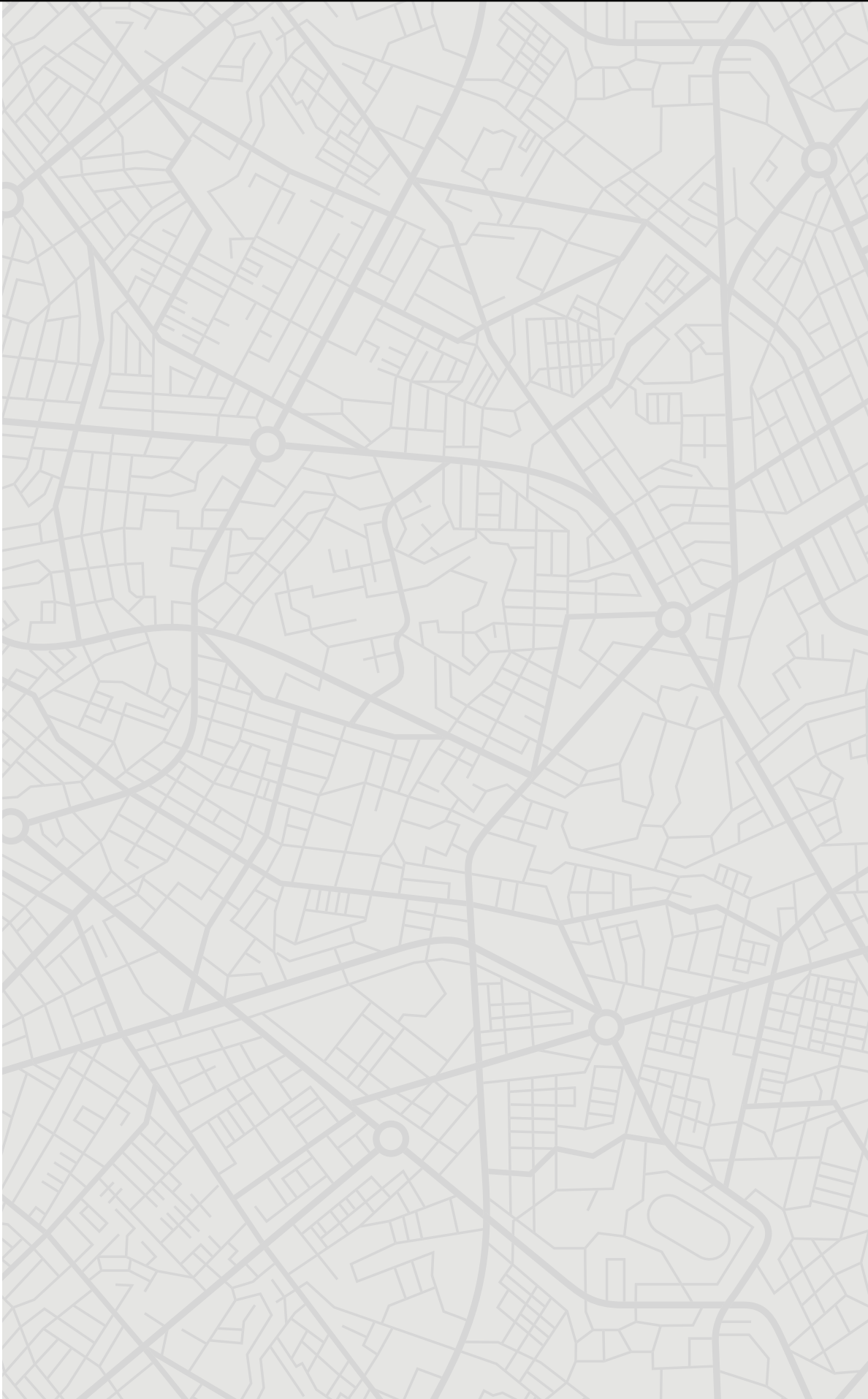
CMA was responsible for the design, permitting, and construction observation of the replacement of the City of Fort Lauderdale's main transmission line going into the wastewater treatment plant. The new line consists of more than 22,000 linear feet of new pipe which will be installed via 12 horizontal directional drills (HDD) that range between 1,700 and 3,000 linear feet each to a depth of up to 70 feet. The new force main is mostly 48" HDPE pipe with some ductile iron pipe sections. The project route includes sensitive ecosystems including the crossing of South Middle River which require Benthic surveys for the subaqueous crossing, dewatering calculations, and permitting for construction within a quarter mile of contaminated areas with high-water table being close to the coastline. Crossing of the intracoastal (US Federal Waters) requires permitting through the US Army Corps of Engineers and the Department of Environmental Protection. There is a total of nine (9) jurisdictional agencies for this project. The project was an emergency project for the City of Fort

Lauderdale which was fast tracked to be completed (design, permitting, and construction) in 14 months. The project was a Design-Build project led by Murphy Pipeline Contractors with CMA as the lead Consultant. It was also named the ASCE Florida Section's 2022 Project of the Year in July 2022.

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

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Prime
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
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE





CITY OF FORT LAUDERDALE

9/29/2023

BidSync

**HBC** Engineering  
Company

CAM #23-0852  
Exhibit B  
Page 152 of 170

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

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Frank Paruas	Survey Project Manager	a. TOTAL 23	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION (City and State) GPI Geospatial Inc. / Doral, FL			
16. EDUCATION (Degree and Specialization) Bachelor Degree in Mechanical Engineering		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Professional Surveyor and Mapper, State of Florida. License Number (LS# 6625)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) President of Miami-Dade Chapter of Florida Surveying and Mapping Society Member of Florida Surveying and Mapping Society			

**19. RELEVANT PROJECTS**

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
SR 842 / Broward Boulevard from University Drive to West of West if Turnpike, Broward County, FL	PROFESSIONAL SERVICES Surveying and Mapping	CONSTRUCTION (If applicable) NA
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm GPI provided a full design survey for this 2.5 miles corridor. Scope includes all design and mapping efforts. GPI established Primary and Secondary Control and performed a completed 3D Survey using Terrestrial Mobile LiDAR. GPI recovered the Historical Baseline of Survey and Right of Way Lines for the entire corridor.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
SR 5 from NE 17th Way to NE 33rd Court, FT Lauderdale, FL.	PROFESSIONAL SERVICES Surveying and Mapping	CONSTRUCTION (If applicable)
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm GPI provided a full design survey for this 2 miles corridor. Scope includes all design and mapping efforts. GPI established Primary and Secondary Control and performed a completed 3D Survey using Terrestrial Mobile LiDAR. GPI recovered the Historical Baseline of Survey and Right of Way Lines for the entire corridor.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
SR 817 / University Drive from North of Rivera Boulevard to North of SR 824/Pembroke Road	PROFESSIONAL SERVICES Surveying and Mapping	CONSTRUCTION (If applicable) NA
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm GPI provided a full design survey for this 2-mile corridor. Mr. Paruas served as the Survey Project Manager and supervised all ground survey efforts. Mr. Paruas led the preparation of the network design plan and was responsible for managing the establishment of the primary horizontal, and vertical control as well as the recovery of the Historical Baseline of Survey and Right of Way Lines for the entire corridor.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Sidewalk Design at Varous Location in Oakland Park, Broward County	PROFESSIONAL SERVICES Surveying and Mapping	CONSTRUCTION (If applicable) NA
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm GPI provided traditional Ground Survey Support for this neighborhood improvement project. Scope includes all design and mapping efforts. GPI established Primary and Secondary Control and provided support on the mapping of 3D features along the corridor. GPI recovered the Historical Baseline of Survey and Right of Way Lines for the entire corridor.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Lyons Road from Johnson Street to Broward/Palm Beach County Line	PROFESSIONAL SERVICES Surveying and Mapping	CONSTRUCTION (If applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm GPI provided a full design survey for this corridor. Scope includes all design and mapping efforts. GPI established Primary and Secondary Control. The 3D Survey was completed by performing Terrestrial Mobile LiDAR. In addition, GPI recovered the Historical Baseline of Survey and Right of Way Lines for the entire corridor.		

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

12. NAME <b>Julio Delgado, PSM</b>		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
				a. TOTAL 25	b. WITH CURRENT FIRM 5
15. FIRM NAME AND LOCATION <i>(City and State)</i> <b>GPI Geospatial, Inc. (GPI) – Tampa, FL</b>					
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> BS / Software Engineering / Keiser University / 2016 Certificate / Geomatics / University of Florida / 2017			17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Surveyor & Mapper #LS7193 / FL FDOT TTC Certified, Advanced, 2024		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Mr. Delgado has 25 years of experience of surveying and mapping in FDOT Right of Way Control Survey, Right-of-Way Mapping, and topographic surveys, as well as ALTA boundary surveys. He has extensive public and private client experience performing projects, including FDOT, and is an expert on MicroStation with GeoPAK and Bentley Open Roads MicroStation SS4 and Civil 3D for 3D design surveys. Mr. Delgado's experience includes boundary analysis, Right of Way Control Survey, Right of Way Maps, and parcel calculations for Legal Descriptions. He is also well-versed in static laser scanning, registration of point clouds, and data extraction using Leica Cyclone 3D modeling of over 20 bridges for FDOT projects.					
<b>19. RELEVANT PROJECTS</b>					
a.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>FDOT 14th Avenue Bike Lanes from Atlantic Shores Boulevard to SR 822 (Sheridan Street), Broward County, FL.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>Project Surveyor:</b> GPI was tasked under our current Districtwide contract to provide a 3D design survey of the 3.45-mile bike lane project corridor utilizing a combination of Terrestrial Mobile LiDAR (TML) and conventional survey. GPI was also responsible for target placement and merging the field survey data and our LiDAR data set for the final deliverable to the District. Deliverables included a calibrated LiDAR point cloud tiled in LAS format, DTM and planimetric topographic survey files in MicroStation SS4 format, digital geo-referenced color imagery.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>FDOT Districtwide Miscellaneous Survey &amp; Mapping Services Support, Various Counties, FL.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>CADD and Survey Technician:</b> Mr. Delgado performed as CADD and Survey Technician for this five-year contract. He provided miscellaneous surveying services throughout Broward, Palm Beach, Indian River, Martin, and St. Lucie Counties. Services include Terrestrial LiDAR, Boundaries, Right-of-Way, Engineering, Design Surveys, Construction Lay-Out, and As-built Surveys, and Horizontal and Vertical Control surveying at various locations throughout the District.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>FDOT SR842/Broward Boulevard, from SR 817/University Drive to West of Turnpike, Broward County, FL.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>Survey Project Manager:</b> GPI provided a full design survey for this 2.5 miles corridor. Mr. Delgado served as the Survey Project Manager and supervised all design and mapping efforts. Mr. Delgado led the preparation of the network design plan and was responsible for managing the establishment of the primary horizontal and vertical control. Mr. Delgado was also responsible for the coordination of the Mobile LiDAR acquisition and the process to recover the historical baseline of the survey and right-of-way lines along the corridor.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>FDOT SRA1A, from Pine Ave to SE. 1st Street, Broward County, FL.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>Project Surveyor:</b> GPI provided a 3D design survey along this 2.5 miles corridor, as part of Biscayne Engineering's (BEC) District-wide contract. The 3D survey was accomplished using Mobile LiDAR. Mr. Delgado was responsible for leading our 3D mapping efforts, performing preliminary QC, and coordinating with the client to merge and finalize the submittal of the 3D files.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i> <b>FDOT Belle Glades, Broward County, FL.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i> N/A	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE		<input checked="" type="checkbox"/> Check if project performed with current firm		
<b>Project Surveyor:</b> Mr. Delgado served as Project Surveyor for this project. GPI performed Terrestrial Mobile Scanning as part of an effort to improve the sidewalks for several streets on Belle Glades. After the initial submittal, District Four requested to extend the survey scope to include several side-streets. The additional scope was accomplished by performing Static Scanner. GPI also performed horizontal and vertical control and traditional survey on several areas.					



<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 1
21. TITLE AND LOCATION <i>(City and State)</i> SR 842 / Broward Boulevard from SR 817 /University Drive to West of Turnpike, Broward County FL	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION <i>(If applicable)</i> Surveying and Mapping NA	

## 23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER FDOT4	b. POINT OF CONTACT NAME Jeffrey Smith	c. POINT OF CONTACT TELEPHONE NUMBER (954) 777-4560
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

GPI Supported FDOT by performing a complete 3D Survey for this corridor. The scope included establishing Primary and Secondary Horizontal and Vertical Control for the corridor. The 3D Survey was completed using Terrestrial Mobile LiDAR. GPI designed a Drive Plan and prepared a target layout that was used to set and controlled the Terrestrial Mobile LiDAR. GPI use our own RIGL VMX-450 Dual Laser Scanner to collect a point cloud that was calibrated and adjusted to local control and was used to extract all 3D Features within the existing Right of Way. All In addition, GPI recovered the Historical Baseline of Survey and established the Right of Way Lines.

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

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

<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 <i>(City and State)</i> SR 5/US1 from NE 17 way / SR 838 Sunrise Boulevard to NW 33 Street, FT. Lauderdale, FL	22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCTION <i>(If applicable)</i> Surveying and Mapping NA	

## 23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER <b>FDOT4</b>	b. POINT OF CONTACT NAME <b>Jeffrey Smith</b>	c. POINT OF CONTACT TELEPHONE NUMBER <b>(954) 777-4560</b>
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

GPI Supported FDOT by performing a complete 3D Survey for this corridor. The scope included establishing Primary and Secondary Horizontal and Vertical Control for the corridor. The 3D Survey was completed using Terrestrial Mobile LiDAR. GPI designed a Drive Plan and prepared a target layout that was used to set and controlled the Terrestrial Mobile LiDAR. GPI use our own RIGL VMX-450 Dual Laser Scanner to collect a point cloud that was calibrated and adjusted to local control and was used to extract all 3D Features within the existing Right of Way. All In addition, GPI recovered the Historical Baseline of Survey and established the Right of Way Lines.

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

a.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

**F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT**  
*(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)*

20. EXAMPLE PROJECT KEY NUMBER

3

21. TITLE AND LOCATION *(City and State)*

Rock Island Road from Oakland Park Boulevard to Commercial Boulevard, Broward County

22. YEAR COMPLETED

PROFESSIONAL SERVICES  
Surveying and Mapping

CONSTRUCTION *(If applicable)*  
(954) 777-4560

**23. PROJECT OWNER'S INFORMATION**

a. PROJECT OWNER  
FDOT4

b. POINT OF CONTACT NAME  
Jeffrey Smith

c. POINT OF CONTACT TELEPHONE NUMBER  
(954) 777-4560

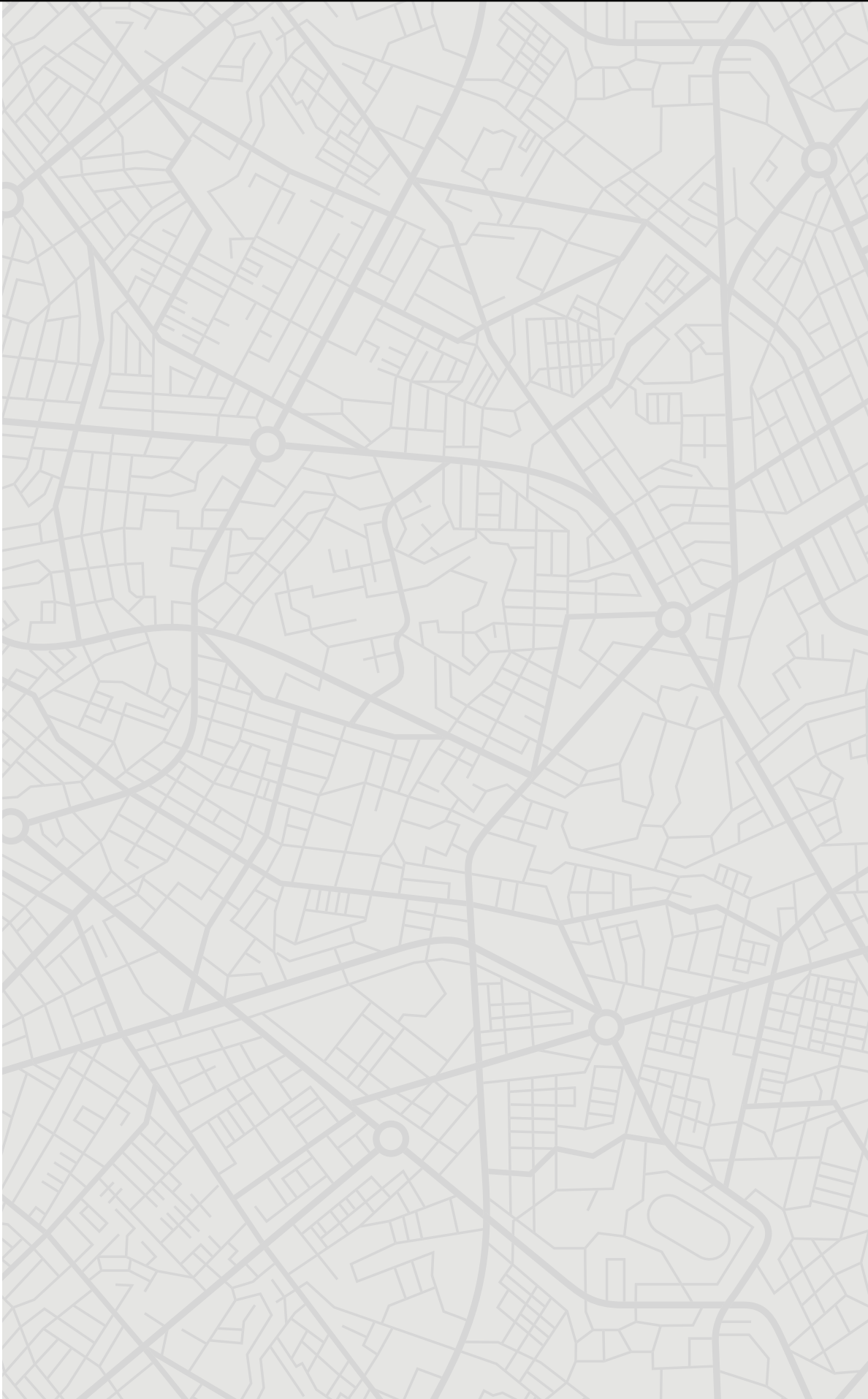
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

GPI Supported FDOT by performing Surveying and Mapping Services at SR 817/University Drive from North of River Blvd to North of SR 842/Pembroke Road. The scope included establishing Primary and Secondary Horizontal and Vertical Control for the corridor. The 3D Survey was completed using Low Altitude Mapping (LAMP) and GPI set and controlled Aerial Targets. In addition, GPI recovered the Historical Baseline of Survey for this corridor and established the Right of Way Line. Furthermore, GPI also performed limited Hydro-graphic Survey for some areas of the existign canal lying east of University Drive.

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

	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
a.	GPI Geospatial Inc.	Doral, FL	Surveying and Mapping
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE





CITY OF FORT LAUDERDALE

# ARCHITECT-ENGINEER QUALIFICATIONS

## PART I - CONTRACT-SPECIFIC QUALIFICATIONS

### A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

2. PUBLIC NOTICE DATE

3. SOLICITATION OR PROJECT NUMBER

### B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

5. NAME OF FIRM

6. TELEPHONE NUMBER

7. FAX NUMBER

8. E-MAIL ADDRESS

### C. PROPOSED TEAM

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

	(Check)				9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V	PARTNER	SUBCON-TRACTOR			
a.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
b.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
c.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
d.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
e.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		
f.					<input type="checkbox"/> CHECK IF BRANCH OFFICE		

### D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☐ (Attached)

# E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12716-626

(Complete one Section E for each key person.)

12. NAME <b>Arsenio Milian, P.E.</b>	13. ROLE IN THIS CONTRACT <b>Chief Civil Engineer (MSA President)</b>	14. YEARS EXPERIENCE	
		a. TOTAL <b>50</b>	b. WITH CURRENT FIRM <b>33</b>
15. FIRM NAME AND LOCATION (City and State) <b>Milian, Swain &amp; Associates, Inc. (Miami, Florida)</b>			
16. EDUCATION (Degree and Specialization) <b>University of Florida, Bachelors of Civil Engineering, 1967 University of Florida, Masters of Engineering, 1968</b>		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) <b>Florida Professional Engineer No. 13134</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)			

Mr. Milian has 50 years of experience in Environmental and Civil Engineering, management, design, permitting and operation of utilities.

Florida Professional Engineer No. 13134, American Waterworks Association, American Society of Civil Engineers, Miami-Dade County Sea Level Rise Committee, President Emeritus Citizens for a Better South Florida, Dade County Environmental Endangered Land Acquis. Committee, Environmental Education Foundation of Florida – Board of Directors, Florida Forever Advisory Council, Florida Waterworks Association, Miami River Storm Water Sub-Committee – Chair, National Audubon Society – Board of Directors, The Nature Conservancy, Florida Chapter – Board of Trustees, 1000 Friends of Florida, The Wilderness Society – Governing Council, Water Pollution Control Federation, SFWMD Board Member

## 19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) <b>Member of the Sea Level Rise Task Force Committee – Miami, Florida</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2018</b>	CONSTRUCTION (If applicable) <b>N/A</b>
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm The Sea Level Rise Task Force Committee was responsible for providing a comprehensive and realistic assessment of the likely and potential impacts of sea level rise and storm surge on vital public services and facilities, water and other ecological resources, waterfront property, real estate, and infrastructure over time. The Committee worked diligently on the development of recommendations relative to the Comprehensive Development Master Plan (CDMP), Capital Facilities Planning, budgetary priorities and other County programs as necessary to ensure that Miami-Dade County takes all appropriate actions to reduce its contributions to climate-induced sea level rise and to ensure its resiliency to that increase in sea level rise, storm surge and related impacts which are expected to occur.		
(1) TITLE AND LOCATION (City and State) <b>Wastewater Reuse Feasibility Study Update, Miami-Dade Water and Sewer Department – Miami, Florida</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2017</b>	CONSTRUCTION (If applicable) <b>N/A</b>
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principle in Charge</b> of all public involvement aspects of the services provided to Miami-Dade Water and Sewer Department for the completion of a Wastewater Reuse Feasibility Study Update. In charge of coordinating and facilitating all required stakeholders meetings. Responsible for attending meetings with regulators in support of work effort. In addition, Ms. Swain performed the economic and present value analysis, components of the reuse feasibility report.		
(1) TITLE AND LOCATION (City and State) <b>Water Supply Master Plan Capital Improvements, Miami-Dade Water and Sewer Department - Miami, Florida</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2012</b>	CONSTRUCTION (If applicable) <b>N/A</b>
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principal in Charge</b> of capital improvements to the Miami Dade Water and Sewer Department's Water Supply Master Plan. Work included senior review and profile of existing water supply system, development of preliminary capital improvement plan, development of approach for funding C.I.P., and development of conclusions and recommendations in the form of a Strategic C.I.P. Executive Summary Report.		
(1) TITLE AND LOCATION (City and State) <b>Alternative Water Supply Master Plan, Miami-Dade Water and Sewer Department - Miami, Florida</b>	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES <b>2015</b>	CONSTRUCTION (If applicable) <b>N/A</b>
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm <b>Principle in Charge</b> of directing the firms work efforts on several tasks as a subconsultant on the Water Master Plan Team. Primary responsibilities include overseeing development of the monitoring plan for the Coastal Wetlands Rehydration Demonstration Project, research and investigation of large-scale aquifer recharge opportunities in South Miami-Dade County and in the Bird Drive Basin, and serve in the lead role in planning and facilitating large scale stakeholder meetings.		



# E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12716-626

12. NAME <b>Gabriel Milian, P.E., ENV S.P., LEED Green Associate</b>		13. ROLE IN THIS CONTRACT <b>Senior Engineer</b>		14. YEARS EXPERIENCE a. TOTAL 20		b. WITH CURRENT FIRM 20	
15. FIRM NAME AND LOCATION (City and State) <b>Milian, Swain &amp; Associates, Inc. (Miami, Florida)</b>							
16. EDUCATION (Degree and Specialization) <b>Master of Environmental Engineering – University of Texas at Austin – 2002</b> <b>Bachelor of Civil Engineering - University of Miami – 2001</b> <b>Bachelor of Environmental Engineering - University of Miami – 2001</b>				17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) <b>Florida Professional Engineer No. 65927</b>			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Milian has over 20 years of experience in the development of construction documents for civil infrastructure improvements through all project phases (master planning, hydraulic modeling, construction documents, civil/environmental permitting, bidding and construction) for private and public sector clients in South Florida. Below is a summary of Mr. Milian's relevant vast experience during his 20-year tenure with MSA (emphasis on water and sewer systems).  ENVISION Sustainability Professional #25509, XP SWMM Certified, Young Engineer of the Year 2007 Miami Dade Branch of the American Society of Civil Engineers							

## 19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State) <b>C-100 Stormwater Master Plan, Miami-Dade County Department of Environmental Resource Management – Miami, Florida</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer responsible for developing the SWMM model to analyze the conveyance capacity of the C-100 Basin in Miami-Dade County. Developed a GIS Data Base with associated coverages identifying the major conveyance elements in the Basin. The GIS Data Base was utilized to identify the critical problem locations in the basin. This ARC-View Data Base was interfaced with the SWMM model to facilitate the manipulation of the model, data input and identification of key problem areas.		
(1) TITLE AND LOCATION (City and State) <b>City of Coral Gables C-3 Canal, City of Coral Gables – Coral Gables, Florida</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 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 Project Engineer for the C-3 Canal (Coral Gables Waterway) Restoration project. In charge of coordinating and managing the performance of soil sampling and testing. Coordinated the preparation of design plans. Assisted the City of Coral Gables in obtaining approvals from regulatory agencies and in the permitting application process. Organized and assisted the various subaqueous inspections performed. Directed the preparation of reports.		
(1) TITLE AND LOCATION (City and State) <b>Margaret Pace Park Shoreline Stabilization, City of Miami Transportation and Capital Improvements Department – Miami, FL</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Project Engineer responsible for the preparation of construction documents for stabilizing approximately 1,300 linear feet of the eastern shoreline of Margaret Pace Park located at 1775 N. Bayshore Drive in the City of Miami. In addition, prepared and processed a Miami-Dade County Department of Environmental Resources Management (DERM) Class-I Permit application as well as a Florida Department of Environmental Protection (FDEP) Joint Environmental Resource Permit (ERP) application.		
(1) TITLE AND LOCATION (City and State) <b>CDWWTP Stormwater Master Plan - Miami-Dade Water and Sewer Department - Miami, Florida</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer responsible for calculating the costs for the different alternatives that will be presented in the updated wastewater reuse feasibility study for MDWASD. Mr. Milian was also in charge of identifying the different environmental permits that may be required for this project.		
(1) TITLE AND LOCATION (City and State) <b>Wastewater Reuse Feasibility Study Update, Miami-Dade Water &amp; Sewer Department – Miami, Florida</b>		(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES 2018	CONSTRUCTION (If applicable) N/A
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Engineer responsible for calculating the costs for the different alternatives that will be presented in the updated wastewater reuse feasibility study for MDWASD. Mr. Milian was also in charge of identifying the different environmental permits that may be required for this project.		

CAM #23-0852

# E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

12716-626

(Complete one Section E for each key person.)

12. NAME <b>Michael Landrum, R.E.M.</b>	13. ROLE IN THIS CONTRACT <b>Senior Environmental Scientist</b>	14. YEARS EXPERIENCE	
		a. TOTAL 39	b. WITH CURRENT FIRM 7
15. FIRM NAME AND LOCATION (City and State) <b>Milian, Swain &amp; Associates, Inc. (Miami, Florida)</b>			
16. EDUCATION (Degree and Specialization) <b>Florida Atlantic University, Bachelors of Administration – Marine Biology, 1979</b>		17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) <b>Registered Environmental Manager, No: 07056</b>	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Wetland Delineator (provisional) U.S. Army Corps of Engineers Certified as General Member: National Association of Environmental Professionals (NAEP)			

## 19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Tree Island Park and Preserve, Environmental Regulatory Permitting Dade County Parks, Recreation, and Open Spaces Department	PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Environmental Regulatory Permitting; including Dredge and Fill (Section 404) U.S. Army Corps of Engineers, ERP South Florida Water Management District; Miami-Dade RER Class IV Wetlands Permit, Lead Florida Bonneted Bat Survey with Subconsultant, Conducted Wood Stork Forage Analysis, Eastern Indigo Snake Education and Protection Program, Conducted Field UMAM Analysis and Negotiated a Successful Mitigation Compensation Outcome with Regulatory Agencies for Project Wetland Impacts including Onsite and Offsite Mitigation, and Coordinated with Everglades National Park Hole-In-The-Donut Restoration Program to Secure State and Federal Mitigation Credits for the Project.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Wetland Mitigation Monitoring and Reporting - Broward County Solid Waste and Recycling Services—Broward County, Florida	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2013
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Conducted Third Party Monitoring of Maintenance Activities on Six Existing Large Wetland Mitigation Sites within Broward County over a 4-year Period. Lead Field Visits with Maintenance Contractor to Six Sites to Review Quarterly Maintenance Activities (Exotic Plant Species Management) and Prepared Quarterly Monitoring Reports for Owner documenting Success of Maintenance activities for each Site. Developed Recommendations for Contractor regarding the Eradication of certain Exotic Plant Species for each site.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Injection Well Permitting Services Miami Dade County Water and Sewer – Miami, Florida	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) N/A
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Regulatory Permitting Lead. Successfully Applied for State Programmatic General Permit (SPGP) U.S. Army Corps of Engineers and Florida DEP, and Class IV Wetlands Permit Miami-Dade County RER to Construct an Exploratory Injection Well in Western Dade County, Conducted Field UMAM Analysis, Prepared and Submitted Permit Applications, Harmonized with DEP, RER and Owner to Develop a Restoration Plan for the Site Following Well Construction		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Environmental and Structural Maintenance Assessment of Piers – Homestead, Florida	PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Served as Project Manager and Permitting Lead to assess the overall condition of heavily used public boat ramps which needed repairs. Coordinated with civil and structural engineers to access boat trailer parking area, and underwater dive team to assess the condition of concrete decking and dock pilings. Prepared a final assessment report for client documenting existing conditions including estimates of repairs to decking, bents and piers vs new construction.		
(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
Environmental Permitting, Seagrass Survey, Floating Dingy Dock and Mooring Field Design – Miami, Florida	PROFESSIONAL SERVICES 2009	CONSTRUCTION (If applicable) 2009
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Served as Project Manager and environmental permitting lead to design a new mooring field with 27 new mooring buoys for sailboats in the intracoastal at Pelican Harbor. Project included a seagrass survey prior to mooring buoy and floating dingy dock placement within the marina along with environmental permitting with the U.S. Army Corps of Engineers, Coast Guard, Miami Dade County Department of Environmental Management and Florida Department of Environmental Protection., Pelican Harbor Park, Miami, Miami Dade County, FL		

<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>		<b>20. EXAMPLE PROJECT KEY NUMBER</b>					
<b>21. TITLE AND LOCATION (City and State)</b> <b>Miami Dade Water and Sewer Department</b> <b>CDWWTP Stormwater Master Plan</b>		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td><b>2016 - 2017</b></td> <td><b>N/A</b></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	<b>2016 - 2017</b>	<b>N/A</b>
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
<b>2016 - 2017</b>	<b>N/A</b>						
<b>23. PROJECT OWNER'S INFORMATION</b>							
<b>a. PROJECT OWNER</b> <b>Miami Dade Water and Sewer Dept.</b> <b>Stantec (Prime)</b>	<b>b. POINT OF CONTACT NAME</b> <b>Sangeeta Dhulashia (Prime)</b> <b>Vicente E. Arrebola, PE</b> <b>(Prime)</b>	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> <b>(954) 851-1572</b> <b>(786) 418-0978</b>					
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>							
<p>Milian, Swain &amp; Associates, Inc. (MSA) provided master planning, hydraulic modeling and regulatory process assistance to Miami-Dade Water and Sewer Department by preparing conceptual design for the stormwater system, hydraulic modeling to size the forcemain and pump stations, documentation and design data as required to support approvals from governmental authorities that have jurisdiction over the Project.</p> <p><b><u>CDWWTP Stormwater Master Plan Report:</u></b>  A stormwater master plan report was put together using the following tasks:</p> <p><b>1. Existing System Review</b></p> <p>This task focused on existing document collection and review, historical data review, site visit, definition of the study scope, planning periods, and description of existing storm water systems. The task involved the following:</p> <ul style="list-style-type: none"> <li>• Perform site visits</li> <li>• Reviewed FDEP ERP SI 13-0131622-009 Issued July 2, 2010 and recently submitted ERP under CD 2.17 Chlorination</li> <li>• Reviewed the existing Central District Waste Water Treatment Plant – Stormwater Pollution Prevention Plan (SWPPP), Hazen and Sawyer, September 1998</li> <li>• Research any external constraints such as outstanding Florida waters, site contamination review for any plumes in vicinity, climate adaptation and resiliency requirements including storm surge and intensity criteria</li> <li>• MSA performed field reviews with WASD staff to visually assess the condition of the CDWWTP stormwater pumps to identify improvements to the existing infrastructure.</li> <li>• Reviewed Historical Data such as rainfall and storm water flows</li> <li>• Developed descriptions and exhibits of existing stormwater management system components and operation</li> </ul> <p><b>2. Stormwater Management Requirement and Criteria</b></p> <p>This task was to identify storm water management requirement, establish governing criteria, develop stormwater management options, develop modeling approaches and make recommendations for additional field investigations and data collection to assist with subsequent tasks. It was accomplished with the following:</p> <p>a) Identified regulatory requirements:</p> <ul style="list-style-type: none"> <li>i. Reviewed applicable state and local stormwater regulations and summarize.</li> <li>ii. Meeting with FDEP to identify their roles and requirement for substantial modification to ERP</li> <li>iii. MSA attended two meetings with RER one each with stormwater compliance division and pollution remediation division to identify their roles and requirement for preparation of SWPPP.</li> </ul>							



- b) Established governing criteria for future storm water management system design (qualitative, quantitative, temporary, permanent measures, design year, storm intensity)
- c) Developed stormwater management options and identified benefits and limitations of each option.
- d) Developed modeling approach for future storm water management system design by using Interconnected Channel and Pond Routing Model (ICPR) software
- e) Developed recommendations for additional field investigations and data collection for subsequent tasks in this project.
- f) Developed Criteria for the pump stations and drainage wells for Storm Surge and Sea Level Rise

### 3. Stormwater Management Alternative Evaluation

Under this task, MSA computed additional impervious area, identified collection, transport, retention and disposal options, developed four alternatives for stormwater management, conducted modeling analysis, and performed alternative evaluation. The objective of this task is to recommend an overall site-wide long term stormwater management strategy. MSA accomplished this task by doing the following:

- a) Additional impervious areas by Year 2025 time horizon were developed
- b) Potential disposal options were developed along with potential site locations
- c) Potential site wide retention areas were evaluated
- d) High level collection and conveyance options were considered based on location and options for retention and disposal.
- e) Four overall high level management alternatives were considered. Five different layouts were prepared as part of this activity.
- f) Modeling analysis was performed for four selected alternatives using Interconnected Channel and Pond Routing Model (ICPR) software.
- g) MSA assisted in the qualitative and quantitative comparative analysis of alternatives

### 4. Stormwater System Improvement

In this task, MSA evaluated and made recommendations for required stormwater improvements based on the selected alternative for the approximate Year 2020, and 2025 planning horizons. MSA developed conveyance system, and retention and disposal improvement and develop a near term (2020) and long term (2025) capital improvement plan. MSA performed detailed modeling analysis under this task with Interconnected Channel and Pond Routing Model (ICPR) software. MSA provided information pertaining to the following:

- a) Description, schematic with sizes, phasing for the Collection and Transport system improvement Plan
- b) Description, schematic with sizes, phasing for the Retention system improvement Plan
- c) Description, schematic with sizes, phasing for the Disposal system improvement Plan

## ENVIRONMENTAL RESOURCE PERMIT (ERP)

An ERP is required for the proposed facility. Upon receipt of a written Notice to Proceed from CONSULTANT, and completion of the 30% design submittal (BODR), MSA will perform the following services:

- Attended pre-application meeting with each of the regulatory agencies (i.e. FDEP-West Palm Beach and USACE – Miami-Dade) to present and discuss the BODR and obtain regulatory constraints, concerns and submittal requirements from each of the agencies.
- Prepared the E.R.P. application package, identified agency review/permit fees, requested pertinent documentation and permit fees from MDWASD, and completed pertinent sections of the ERP application required for the proposed work.
- Given the nature of the project (Wastewater Treatment facility), MSA submitted the necessary copies of the ERP application to the Florida Department of Environmental Protection (FDEP) as the lead review agency for this project.
- MSA monitored agencies' review progress. Upon receipt of initial Request for Additional Information (RAI #1) from the agencies, MSA will analyze information requested and meet with the Prime Consultant to discuss RAI comments, approach to RAI responses, revise and re-submit pertinent documents to satisfy agencies RAI.
- MSA monitored ERP approval process, obtain and submit approved ERP to MDWASD.

**Stormwater Pollution Prevention Plan (SWPPP):**

The CDWWTP's Stormwater Pollution Prevention Plan (SWPPP) was last updated in 1998. The SWPPP is a required component under Environmental Protection Agency (EPA)'s National Pollutant Discharge Elimination System (NPDES) stormwater permitting program. Due to the number of projects being undertaken which will soon be under construction, this was required for the future contractors to obtain NPDES permits for their relevant projects. MSA updated the existing 1998 CDWWTP SWPPP to address the CIP projects identified in the 0-5 year timeframe according to the guidelines presented in EPA-833-R-06-004. This update included the following:

- List of emergency contact personnel
- Onsite stormwater pollution prevention team description
- Site assessment
- Listing of management practices designed to prevent, impede, contain and respond to hazardous chemical spills.
- Best management practices
- Site compliance inspection forms and records.

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

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

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<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>		<b>20. EXAMPLE PROJECT KEY NUMBER</b>				
<b>21. TITLE AND LOCATION (City and State)</b> <b><i>C-100 Basin Master Plan Modeling</i></b> <b><i>Miami-Dade County, FL</i></b>		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td><b>2016</b></td> <td><b>N/A</b></td> </tr> </table>	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	<b>2016</b>	<b>N/A</b>
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
<b>2016</b>	<b>N/A</b>					
<b>23. PROJECT OWNER'S INFORMATION</b>						
<b>a. PROJECT OWNER</b> <b><i>Miami-Dade Department of Environmental Resources Management (DERM)</i></b>	<b>b. POINT OF CONTACT NAME</b> <b><i>Victor Martin, P.E.</i></b>	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> <b><i>(305) 372-6789</i></b>				
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>						

Milian, Swain & Associates, Inc. (MSA) assisted Camp Dresser & McKee Inc. (CDM) in the modeling efforts of the C-100 Basin located in south Miami-Dade County, Florida. MSA's scope of services included the following:

- Field-verified the compiled survey information. This task included verifying culvert entrance and exit conditions, the construction material of the culvert, the approximate length, and usual conditions such as crushed portions of culverts
- Preparation of an ARC-View GIS database to facilitate the input of data into the nodal model and assist in manipulation. This database was used to identify problem areas of the system. The database also contains information pertinent to the major conveyance elements.
- Coordinated with the Department of Environmental Resources Management (DERM) to obtain the control structure operating criteria
- Identified and delineated sub-basins within the C-100 Basin
- Computed DCIAs for each sub-basin
- Prepared the XP-SWMM model. This task entailed inputting the information pertaining to the nodes and links along the major conveyance element of the Basin
- Executed the XP-SWMM for the 5-year 24-hour, 10-year 24-hour, 25-year 72-hour, and the 100-year 72-hour design events
- Conducted sensitivity analysis and calibrated the model
- Executed the calibrated model for the design storm events described above
- Verified the areas experiencing ponding as identified by the model. The areas identified by the modeling effort were compared to the list of ponding complaints that DERM provided
- Identified feasible system improvements such as upsizing culverts, improving the C-100 Canal conveyance via maintenance dredging and providing additional stormwater runoff storage areas
- Executed the model with the system improvements and prepared a report comparing the pre and post C-100 Basin conveyance system performance.

Project Cost: \$119,200.00

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

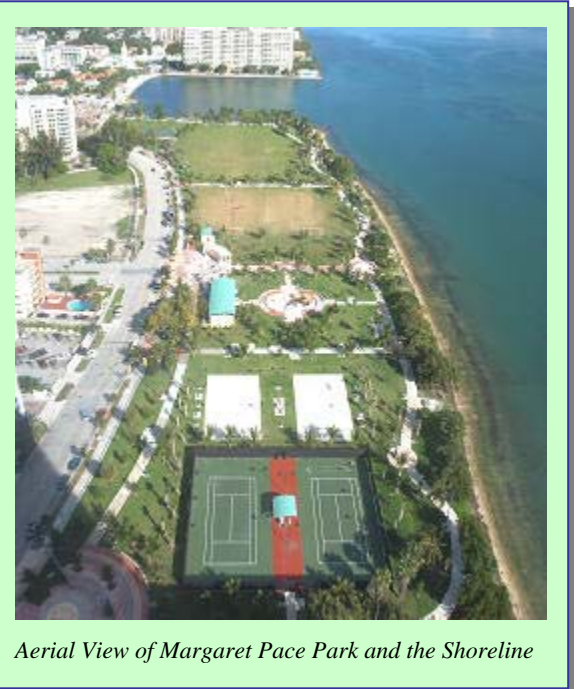
<b>a</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
.	Milian, Swain & Associates, Inc.	Miami, Florida	Civil Engineering Services
<b>b</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
.			
<b>c</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
.			
<b>d</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
.			
<b>e</b>	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) Role
.			
<b>f</b>	(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> (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)		<b>20. EXAMPLE PROJECT KEY NUMBER</b>				
<b>21. TITLE AND LOCATION (City and State)</b> <b>Margaret Pace Park Shoreline Stabilization</b> <b>Miami-Dade County, FL.</b>	<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td align="center"><b>2011</b></td> <td align="center"><b>2012</b></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	<b>2011</b>	<b>2012</b>
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
<b>2011</b>	<b>2012</b>					
<b>23. PROJECT OWNER'S INFORMATION</b>						
<b>a. PROJECT OWNER</b> <b>City of Miami Transportation and Capital Improvement Department</b>	<b>b. POINT OF CONTACT NAME</b> <b>Jorge C. Cano, P.E.</b>	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> <b>(305) 673-7071</b>				
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)</b>						

Milian, Swain & Associates, Inc. (MSA) provided professional engineering services for the Margaret Pace Park project.

The project consisted of preparing construction documents for stabilizing approximately 1,300 linear feet of the eastern shoreline of Margaret Pace Park located at 1775 N. Bayshore Drive in the City of Miami. In addition, MSA prepared and processed a Miami-Dade County Department of Environmental Resources Management (DERM) Class-I Permit application as well as a Florida Department of Environmental Protection (FDEP) Joint Environmental Resource Permit (ERP) application is also part of the project:

**Survey** - MSA retained the services of Royal Point Land Surveyors, Inc. to perform a topographic survey of the eastern shoreline of Margaret Pace Park. The surveyor established a construction baseline and tied it to an existing City of Miami monument. Topographic sections every fifty feet with elevations every five feet across the sections were collected. The sections extend from the top of the existing concrete walkway located along the eastern shoreline of the park to the sea grass line in Biscayne Bay. The survey located the mean high water line, the mean low water line and the sea grass line. This survey also located existing trees along the shoreline as well as existing utility and drainage castings between the existing walkway and the shoreline.



*Aerial View of Margaret Pace Park and the Shoreline*

**Biological Assessment** - MSA's biologist conducted a biological assessment of the Biscayne Bay bottom for the purpose of identifying the location and species of sea grasses present near the proposed shoreline stabilization project area. This task was accomplished by diving into the shoreline along the eastern boundary of the park and working together with the surveyor to locate the sea grass line. In addition, our biologist identified the species of upland trees present for proper labeling on the survey. The findings of the biological assessment were compiled into a letter report format for inclusion in the Miami-Dade County Department of Environmental Resources Management (DERM) Class-I and the Florida Department of Environmental Protection (FDEP) Environmental Resource Permit (ERP) application.

**Community Redevelopment Agency Presentation** - MSA prepared Power Point presentation for the local Community Redevelopment Agency (CRA). This presentation explained the nature of the project, the anticipated time required to secure the DERM Class-I and DEP ERP permit, the anticipated time of construction and the construction access routes and staging area. MSA assisted the City of Miami Department of Capital Improvements staff in addressing any questions the CRA had regarding this project.



**Design Shoreline Stabilization** - MSA requested from the City of Miami electronic copies of existing as-built plans reflecting the most recent improvements at Margaret Pace Park. MSA also, obtained a Design Ticket from Sunshine State One Call of Florida, Inc. and requested as-built information from utility companies listed as having potential utilities within the project area. In addition, MSA requested pertinent underground records from the City's Department of Public Works. We utilized the electronic survey to prepare engineering base map on which we depicted the proposed shoreline stabilization improvements. Our plans identified the contractor access route through the park and the designated staging area. A plan view depicting the limits of the improvements was prepared utilizing the engineering base map and typical sections depicting the stabilization elements as well as the location of the sea grass line, the mean high and low water line, the construction baseline as well as the existing concrete walk way will be included in the plans.

**Playground Grading** - MSA coordinated with the City of Miami Capital Improvements Department staff to identify the location of the proposed playground. Based on this information and the electronic as-built information received, we prepared a grading plan of the playground area. The plan identified the required elevations and required base material on which the future playground will be built.

**Permitting** - MSA prepared and processed the permit application for the DERM Class-I and the DEP ERP permit. We coordinated and attended a pre-submittal meeting with DERM and with DEP at their West Palm Beach office. MSA explained the nature of the project and familiarized the regulatory staff with the project.

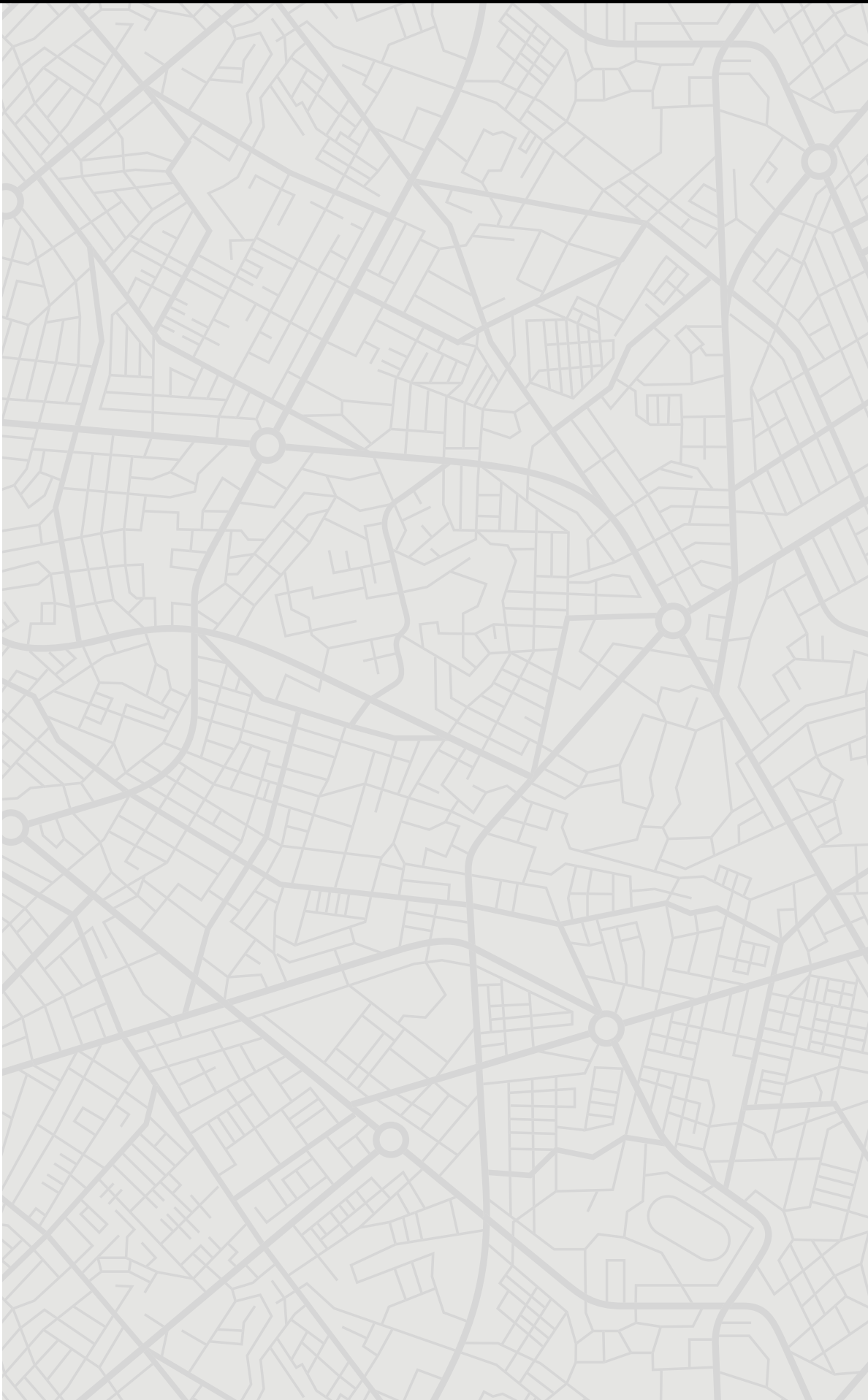


*View of the Shoreline Stabilization Construction*

Project Cost: \$57,008.00

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

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



CITY OF FORT LAUDERDALE

9/29/2023

BidSync

**HBC** Engineering  
Company

CAM #23-0852  
Exhibit B  
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**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT***(Complete one Section E for each key person.)*

<b>12. NAME</b> <b>Raj Krishnasamy, P.E.</b>		<b>13. ROLE IN THIS CONTRACT</b> <b>Principal-in-Charge, Principal Engineer</b>		<b>14. YEARS EXPERIENCE</b>	
				<b>a. TOTAL</b> <b>35</b>	<b>b. WITH CURRENT FIRM</b> <b>22</b>
<b>15. FIRM NAME AND LOCATION (City and State)</b> Tierra South Florida, Inc. (TSFgeo), West Palm Beach, Florida					
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> BS Civil Engineering, Christian Brothers University, 1987; MS Civil Engineering, University of Memphis, 1996			<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer, Florida No. 53567		
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> American Society of Civil Engineers, Past President, Florida Engineering Society, Past Treasurer Geotechnical Material Engineering Council, Past Chairman; American Council of Engineering Companies, Past Director					
<b>19. RELEVANT PROJECTS</b>					
a.	(1) TITLE AND LOCATION (City and State) <b>South Lake Worth Inlet Seawall Replacement, Palm Beach County, Florida.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2022	CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the Principal-in-Charge for the geotechnical engineering services for the South Lake Worth Inlet Seawall Replacement in Unincorporated Palm Beach County, Florida. The project consisted of a sheet pile wall structure for the subject project. The purpose of this study was to obtain soil data for the replacement of the seawall at the project location at the South Lake Worth Inlet in unincorporated Palm Beach County. TSFgeo's geotechnical field study included Standard Penetration Tests (SPT) borings, laboratory testing soil classification and rock core specimens, and estimation of soil parameters for sheet pile wall design. TSFgeo provided a geotechnical engineering report including geotechnical engineering evaluations and recommendations regarding subsurface conditions encountered for the design. ✓ <b>Completed on time</b> ✓ <b>Within budget</b>				
b.	(1) TITLE AND LOCATION (City and State) <b>Seawall Rebuilding for Boat Ramp, Hollywood, Florida.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the Principal-in-Charge of the geotechnical engineering study of the Seawall Rebuilding for a Boat Ramp. The project consisted of rebuilding the existing seawall for a boat ramp. The purpose of the study was to provide geotechnical input for the design team to assist in the foundation design and pavement subgrade design. TSFgeo's scope of services included SPT borings, laboratory testing to classify and stratify soil samples according to the Unified Soil Classification System (USCS), and environmental corrosion tests including pH, resistivity, chloride, and sulfate content. TSFgeo provided a report including soil evaluation and recommendations regarding pavement design. ✓ <b>Completed on time</b> ✓ <b>Within budget</b>				
c.	(1) TITLE AND LOCATION (City and State) <b>Bill Keith Preserve Park-Protection Shoal, Broward County, Florida.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2019	CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the Principal-in-Charge of the geotechnical engineering services for the new seawall at the Bill Keith Preserve Park Protection Shoal Project. The project consisted of a new seawall at Bill Keith Preserve. The purpose of this study was to provide geotechnical input to the design team to assist in the foundation design. TSFgeo's geotechnical field study included one SPT boring, laboratory testing to establish soil properties in accordance with the USCS, and preparation of a geotechnical engineering report. TSFgeo provided a geotechnical engineering report including evaluations and soil parameter recommendations for design. ✓ <b>Completed on time</b> ✓ <b>Within budget</b>				
d.	(1) TITLE AND LOCATION (City and State) <b>Marine Way Rehabilitation/Reconstruction, Delray Beach, Florida.</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2017	CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Krishnasamy was the Principal-in-Charge for the geotechnical engineering services for the Rehabilitation/Reconstruction of Marine Way. TSFgeo's purpose of the study was to obtain information on the existing subsurface conditions at the project site to assist in the design of the construction. TSFgeo's scope of services included SPT borings, pavement cores, classification of soil samples using the American Society for Testing and Materials (ASTM) Soil Classification System, and the preparation of a geotechnical report. TSFgeo's evaluation of the site and subsurface conditions were based upon the site observations and the field exploratory test data obtained during the geotechnical study. ✓ <b>Completed on time</b> ✓ <b>Within budget</b>				
e.	(1) TITLE AND LOCATION (City and State) <b>Rapaport Seawall Soil Improvements, Palm Beach, Florida</b>		(2) YEAR COMPLETED		
			PROFESSIONAL SERVICES 2016	CONSTRUCTION (If applicable) N/A	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE				

	<div>(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE</div> <div><input checked="" type="checkbox"/> Check if project performed with current firm</div> <p>Mr. Krishnasamy was the Principal-in-Charge of the geotechnical engineering services for the Rapaport Seawall Soil Improvements. TSFgeo performed a geotechnical study for the subject project that indicated that the soils along the north seawall (land side) are experiencing some type of distress noticeable by settlement on the surface, including the movement of pavers. The purpose of TSFgeo's subsurface investigation was to gather information regarding the possible cause of the settlement. TSFgeo performed SPT borings, and classified soil samples using the Unified Soil Classification System (USCS). TSFgeo's recommendations were prepared in accordance with generally accepted geotechnical engineering principles and practices. ✓ <b>Completed on time</b> ✓ <b>Within budget</b></p>
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**E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT***(Complete one Section E for each key person.)*

<b>12. NAME</b> <b>Kumar Vedula, P.E.</b>	<b>13. ROLE IN THIS CONTRACT</b> <b>Principal Engineer</b>	<b>14. YEARS EXPERIENCE</b> <b>a. TOTAL</b> <b>26</b>		<b>b. WITH CURRENT FIRM</b> <b>16</b>	
<b>15. FIRM NAME AND LOCATION (City and State)</b> <b>TSFgeo, West Palm Beach, Florida</b>					
<b>16. EDUCATION (DEGREE AND SPECIALIZATION)</b> Bachelor of Engineering, Andhra University, India, 1992; MS Civil Engineering, University of Memphis, 1995		<b>17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)</b> Professional Engineer, Florida No. 54873			
<b>18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)</b> American Society of Civil Engineers, Past President; Augered Cast-in-Place and Driven Pre-stressed Concrete Pile Field Performance Comparison, Frizzi, R. P. & Vedula, R.V, Published in FHWA Resource Center, 83 <sup>rd</sup> Annual Transportation Research Board Meeting, Washington D.C., Jan. 2004					
<b>19. RELEVANT PROJECTS</b>					
a.	<b>(1) TITLE AND LOCATION (City and State)</b> <b>South Lake Worth Inlet Seawall Replacement, Lake Worth, Florida.</b>		<b>(2) YEAR COMPLETED</b> PROFESSIONAL SERVICES 2022		CONSTRUCTION (If applicable) N/A
	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Geotechnical Principal Engineer for the geotechnical engineering services for the South Lake Worth Inlet Seawall Replacement. The study was performed to explore the subsurface conditions at the structure locations and provide geotechnical recommendations to guide the design. TSFgeo provided analysis and recommendations based upon the data obtained from the soil boring performed at the locations indicated. <b>✓ Completed on time ✓ Within budget</b>				
	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Rita W. Shaw Parcel – Seawall Design, Dania Beach, Florida.</b>		<b>(2) YEAR COMPLETED</b> PROFESSIONAL SERVICES 2021		CONSTRUCTION (If applicable) N/A
b.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Geotechnical Principal Engineer for the geotechnical engineering services for the Rita W. Shaw Parcel – Seawall Design. TSFgeo provided geotechnical recommendations with respect to ground vibrations induced by the compaction operations to assess if there were a potential impact on any existing adjacent structures. <b>✓ Completed on time ✓ Within budget</b>				
	<b>(1) TITLE AND LOCATION (City and State)</b> <b>NE 37th Avenue – Yacht Club Seawall, Aventura, Florida.</b>		<b>(2) YEAR COMPLETED</b> PROFESSIONAL SERVICES 2020		CONSTRUCTION (If applicable) N/A
c.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Geotechnical Principal Engineer for the geotechnical engineering services for the NE 37th Avenue – Yacht Club Seawall. The project indicated that the existing retaining wall that borders the canal was exhibiting failure. TSFgeo performed Standard Penetration Tests (SPT) boring and soil tests. These records include soil descriptions, stratifications, and penetration resistances. TSFgeo provided recommendations based on the conditions observed. <b>✓ Completed on time ✓ Within budget</b>				
	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Seawall Rebuilding for Boat Ramp, Hollywood, Florida.</b>		<b>(2) YEAR COMPLETED</b> PROFESSIONAL SERVICES 2019		CONSTRUCTION (If applicable) N/A
d.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Geotechnical Principal Engineer for the geotechnical engineering services for the Seawall Rebuilding for Boat Ramp. The study was performed to obtain information on the existing subsurface conditions to assist in the design of the construction plans for the Seawall rebuilt in Hollywood, Florida. Based on subsurface information encountered in TSFgeo's geotechnical study, soil parameters that may be utilized in the seawall design were developed and presented. <b>✓ Completed on time ✓ Within budget</b>				
	<b>(1) TITLE AND LOCATION (City and State)</b> <b>Pavement Cores/Seawall Improvement – North R Street Between Wellesley Drive and 18th Avenue North, Lake Worth, Florida.</b>		<b>(2) YEAR COMPLETED</b> PROFESSIONAL SERVICES 2018		CONSTRUCTION (If applicable) N/A
e.	<b>(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE</b> <input checked="" type="checkbox"/> Check if project performed with current firm Mr. Vedula was the Geotechnical Principal Engineer for the evaluation of the existing pavement. TSFgeo's geotechnical field study included performing four (4) SPT borings and two (2) pavement cores. TSFgeo provided analysis and recommendations based on the data obtained from the pavement cores and soil borings performed at the site. <b>✓ Completed on time ✓ Within budget</b>				

**E. RESUMES OF KEY PERSONNEL PROPOSED**

<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>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>1</b>					
<b>21. TITLE AND LOCATION (City and State)</b> <b>SEACOR Island Lines – West Bulkhead</b> <b>Dania Beach, Florida.</b>		<b>22. YEAR COMPLETED</b> <table border="1"> <tr> <td>PROFESSIONAL SERVICES</td> <td>CONSTRUCTION (If applicable)</td> </tr> <tr> <td><b>2022</b></td> <td><b>N/A</b></td> </tr> </table>		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	<b>2022</b>	<b>N/A</b>
PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)						
<b>2022</b>	<b>N/A</b>						
<b>23. PROJECT OWNER'S INFORMATION</b>							
<b>a. PROJECT OWNER</b> Fort Lauderdale c/o Seacor Island Lines	<b>b. POINT OF CONTACT NAME</b> Mr. Charles Gittens	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 920-9292					
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Includes scope and size)</b>  <p>TSFgeo performed a Geotechnical Engineering Study for a New Seawall in Dania Beach, Florida. The scope of the investigation was intended to evaluate soil conditions within the influence zone of the foundations. TSFgeo's geotechnical field study included SPT borings, visual classification, and stratification of soil samples using the unified soil classification system (USCS). TSFgeo provided a geotechnical engineering report that outlined the soil data for the bulkhead at the project location, and testing procedures described the site and subsurface conditions and provided recommendations for foundation design, and comments regarding factors that may impact construction and performance of the construction.</p> <p>✓ <b>Completed on time</b> ✓ <b>Within budget</b>  TSFgeo Consultant Fees: \$N/A (Geotechnical)</p>							

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

a.	(1) FIRM NAME TSFgeo	(2) FIRM LOCATION (City and State) Dania Beach, Florida	(3) ROLE Geotechnical Engineering Services
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<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>		<b>20. EXAMPLE PROJECT KEY NUMBER</b> <b>2</b>	
<b>21. TITLE AND LOCATION (City and State)</b> <b>Seawall Repair at Bayview Drive</b> <b>Fort Lauderdale, Florida</b>		<b>22. YEAR COMPLETED</b>	
		PROFESSIONAL SERVICES <b>2015</b>	CONSTRUCTION (If applicable) <b>N/A</b>
<b>23. PROJECT OWNER'S INFORMATION</b>			
<b>a. PROJECT OWNER</b> Seawall Replacement c/o Lakdas/Yohalem Engineering Inc.	<b>b. POINT OF CONTACT NAME</b> Mr. Lakdas Nanayakkara, P.E., President	<b>c. POINT OF CONTACT TELEPHONE NUMBER</b> (954) 771-0630	
<b>24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope and size)</b>  TSFgeo provided Geotechnical Engineering services for the Seawall Replacement at Bayview Drive in Fort Lauderdale, Florida. TSFgeo's purpose of the study was to obtain information on the existing subsurface condition to assist in the design of the construction plans. TSFgeo's geotechnical field study included SPT borings, visual classification, and stratification of soil samples using the unified soil classification system (USCS). TSFgeo provided a geotechnical engineering report based on, site evaluation and subsurface conditions with respect to the recommendations for both applicable and feasible foundation construction.  <b>✓ Completed on time ✓ Within budget</b> TSFgeo Consultant Fees: \$N/A (Geotechnical)			

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

a.	(1) FIRM NAME TSFgeo	(2) FIRM LOCATION (City and State) Fort Lauderdale, Florida	(3) ROLE Geotechnical Engineering Services
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**NON-COLLUSION STATEMENT:**

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

**Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.**

**NAME****RELATIONSHIPS**

**In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.**

**Adebayo Coker, PE**  
Authorized Signature

**President**  
Title

**Adebayo Coker, PE**  
Name (Printed)

**9/06/22**  
Date



**CONTRACTOR'S CERTIFICATE OF COMPLIANCE WITH  
NON-DISCRIMINATION PROVISIONS OF THE CONTRACT**

The completed and signed form should be returned with the Contractor's submittal. If not provided with submittal, the Contractor must submit within three business days of City's request. Contractor may be deemed non-responsive for failure to fully comply within stated timeframes.

Pursuant to City Ordinance Sec. 2-187(c), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

The Contractor shall not, in any of his/her/its activities, including employment, discriminate against any individual on the basis of race, color, national origin, religion, creed, sex, disability, sexual orientation, gender, gender identity, gender expression, or marital status.

1. The Contractor certifies and represents that he/she/it will comply with Section 2-187, Code of Ordinances of the City of Fort Lauderdale, Florida, as amended by Ordinance C-18-33 (collectively, "Section 2-187").
2. The failure of the Contractor to comply with Section 2-187 shall be deemed to be a material breach of this Agreement, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.
3. The City may terminate this Agreement if the Contractor fails to comply with Section 2-187.
4. The City may retain all monies due or to become due until the Contractor complies with Section 2-187.
5. The Contractor may be subject to debarment or suspension proceedings. Such proceedings will be consistent with the procedures in section 2-183 of the Code of Ordinances of the City of Fort Lauderdale, Florida.

**Adebayo Coker, PE**  
Authorized Signature

**Adebayo Coker, PE - President**  
Print Name and Title

**09/06/22**  
Date

**E-VERIFY AFFIRMATION STATEMENT**

RFP/Bid /Contract No: **12716-626**

Project Description: **Consultant Services for Riverwalk North Seawall Replacement (P11722)**

Contractor/Proposer/Bidder acknowledges and agrees to utilize the U.S. Department of Homeland Security's E-Verify System to verify the employment eligibility of,

- (a) all persons employed by Contractor/Proposer/Bidder to perform employment duties within Florida during the term of the Contract, and,
- (b) all persons (including subcontractors/vendors) assigned by Contractor/Proposer/Bidder to perform work pursuant to the Contract.

The Contractor/Proposer/Bidder acknowledges and agrees that use of the U.S. Department of Homeland Security's E-Verify System during the term of the Contract is a condition of the Contract.

Contractor/Proposer/ Bidder Company Name: **HBC Engineering Company**

Authorized Company Person's Signature: **Adebayo Coker, PE**

Authorized Company Person's Title: **President**

Date: **09/06/22**

9/15/2020

**BID/PROPOSAL CERTIFICATION**

**Please Note:** It is the sole responsibility of the bidder to ensure that his bid is submitted electronically through [www.BidSync.com](http://www.BidSync.com) prior to the bid opening date and time listed. Paper bid submittals will not be accepted. All fields below must be completed. If the field does not apply to you, please note N/A in that field.

If you are a foreign corporation, you may be required to obtain a certificate of authority from the department of state, in accordance with Florida Statute §607.1501 (visit <http://www.dos.state.fl.us/>).

Company: (Legal Registration) **HBC Engineering Company** EIN (Optional): **22-3936061**

Address: **8935 NW 35th Lane, Suite 201**

City: **Doral** State: **Florida** Zip: **33172**

Telephone No.: **(305) 232-7932** FAX No.: **(305) 232-7933** Email: **acoker@hbcengineeringco.com**

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): **N/A**

Total Bid Discount (**section 1.05 of General Conditions**): **N/A**

Check box if your firm qualifies for MBE / SBE / WBE (**section 1.09 of General Conditions**): ☒

**ADDENDUM ACKNOWLEDGEMENT** - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>	<u>Addendum No.</u>	<u>Date Issued</u>
<b>1</b>	<b>09-06-22</b>	<b>2</b>	<b>09-23-22</b>		
<b>1</b>	<b>09-19-22</b>	<b>3</b>	<b>10-03-22</b>		

**VARIANCES:** If you take exception or have variances to any term, condition, specification, scope of service, or requirement in this competitive solicitation you must specify such exception or variance in the space provided below or reference in the space provided below all variances contained on other pages within your response. Additional pages may be attached if necessary. No exceptions or variances will be deemed to be part of the response submitted unless such is listed and contained in the space provided below. The City does not, by virtue of submitting a variance, necessarily accept any variances. If no statement is contained in the below space, it is hereby implied that your response is in full compliance with this competitive solicitation. If you do not have variances, simply mark N/A. **You must also click the "Take Exception" button.**

**N/A**

The below signatory hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid/proposal.

I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal, I will accept a contract if approved by the City and such acceptance covers all terms, conditions, and specifications of this bid/proposal. The below signatory also hereby agrees, by virtue of submitting or attempting to submit a response, that in no event shall the City's liability for respondent's direct, indirect, incidental, consequential, special or exemplary damages, expenses, or lost profits arising out of this competitive solicitation process, including but not limited to public advertisement, bid conferences, site visits, evaluations, oral presentations, or award proceedings exceed the amount of Five Hundred Dollars (\$500.00). This limitation shall not apply to claims arising under any provision of indemnification or the City's protest ordinance contained in this competitive solicitation.

Submitted by:

**Adebayo Coker, PE**  
Name (printed)

**10/03/22**  
Date

**Adebayo Coker, PE**  
Signature

**President**  
Title

Revised 4/28/2020