



City of Fort Lauderdale

# RFQ# 449

## STRUCTURAL ENGINEERING SERVICES CONTRACT

May 22, 2025 at 2PM

**Name of Respondent's Agency/Firm:** HBC Engineering Company

**Name of Contact:** Sreelatha Nandivada, MS, PE

**Address:** 5200 NW 33rd Ave, Suite 211, Fort Lauderdale, FL 33309

**E-Mail:** [snandivada@hbcengineeringco.com](mailto:snandivada@hbcengineeringco.com)

**Telephone Number:** (954) 519-2199



CITY OF FORT LAUDERDALE

# TABLE OF CONTENTS

Section 1	Table of Contents   Page 2
Section 2	Executive Summary   Page 3
Section 3	Firm Qualifications and Experience   Page 5
	Past Experience   Page 9
	Firm Business Certifications and Licenses   Page 17
Section 4	Qualifications of the Project Team   Page 20
	Organizational Chart   Page 22
	Resumes   Page 23
	Personnel Documentation of Qualifications   Page 55
Section 5	Approach to Scope of Work   Page 60
	Project Management and Quality Control   Page 76
	Firm's Current Workload   Page 80
	Technological Capabilities & Cutting-Edge Practices   Page 82
Section 6	History and Past Performance   Page 83
Section 7	References   Page 90
Section 8	Minority/Women (M/WBE) Participation   Page 95
Section 9	Subconsultant   Page 97
Section 10	Required Forms   Page 103
	Sample Insurance Certificate   Page 103
	Bid/Proposal Certification   Page 105
	Affidavit of Compliance with Foreign Entity Laws   Page 106
	Specific References Forms   Page 107
	Contract Payment Method   Page 112
	E-Verify Affirmation Statement   Page 113
	Non-Collusion Statement   Page 124
	Non-Discrimination Certification Form   Page 125
	Local Business Preference Certification   Page 126
	Disadvantaged Business Enterprise Preference Certification   Page 128

# EXECUTIVE SUMMARY

**HBC Engineering Company (HBC)** is excited to present our qualifications for **RFQ #449: Structural Engineering Services Contract**. With a strong history of delivering comprehensive transportation and infrastructure planning, HBC is ready to support the City of Fort Lauderdale through a broad range of services including inspections, evaluations, structural design, rehabilitation, CEI, and staff augmentation. Our team is committed to advancing the City's infrastructure goals with innovative practices that address long-term durability, sea level rise, and community resilience.

## HBC's Expertise & Qualifications

HBC offers nearly 20 years of experience in bridge and structural engineering for public infrastructure projects across Florida. Our portfolio includes bascule bridges, medium-span vehicular and pedestrian structures, as well as seawalls, bulkheads, retaining walls, and foundations—directly aligning with the City's scope of services.

We deliver end-to-end design solutions, including surveys, geotechnical coordination, structural analysis, load ratings, construction documents, permitting, and cost estimates, all in compliance with FDOT, AASHTO, and local standards. Our designs prioritize durability, constructability, and minimal disruption, and incorporate advanced materials such as FRP for sustainability and extended service life.

HBC has successfully supported agencies including FDOT, Palm Beach County, Miami-Dade County, and the City of Fort Lauderdale with expertise in bridge and structural design, drainage systems, improvement planning, utility coordination, permitting, and construction engineering inspection (CEI).

**Our Fort Lauderdale office, located at 5200 NW 33rd Avenue, Suite 211, allows us to provide responsive, local support.**

We are fully licensed, insured, and experienced in managing CCNA contracts while meeting the City's standards for quality, schedule, and CEI coordination.

## Understanding of the City's Objectives

HBC understands the City of Fort Lauderdale's priority to enhance the structural integrity and resiliency of its infrastructure through this contract. The City seeks a responsive, qualified partner to support the design, rehabilitation, and inspection of bridges and municipal structures such as seawalls, water/wastewater facilities, and retaining walls.

**HBC is prepared to assist the City with:**



## Business Structure

HBC Engineering Company was incorporated in Florida as an S-Corp on June 15th, 2006, and licensed to practice engineering and conduct business in the State of Florida under document number P06000082280.

### Officers and Principals of the Firm

Adebayo Coker, PE - President/CEO

Edgar Diaz, MS, PE, PSM - Vice President

Happiness Oboh-Coker - Assistant Treasurer

Jose Lopez, PE - Vice President

Fernando Craveiro de Sa, PhD - Vice President

Hernan Lugo, MS, PE, CFM - Vice President

Orlando Penate, PE, EE, IMSA III - Vice President

### Headquarters and Office Locations

9675 NW 117th Ave, Suite 305, Miami, FL 33178 **(HQ)**

5200 NW 33rd Avenue, Suite 211, Fort Lauderdale, FL 33309 **(Main Office)**

123 NW 13th Street, Suite 308, Boca Raton, FL 33432

2700 Westhall Lane, Suite 225, Maitland, FL 32751

**Bridge Design and Structural Engineering:**

Replacement and rehabilitation solutions for bridges and related structures, using concrete, steel, and advanced materials in compliance with FDOT and national standards.

**Inspections and Assessments:** Load ratings, service life evaluations, nondestructive testing, and underwater inspections to guide improvements.

**Construction Documentation:** Detailed plans, technical specifications, and phasing strategies that reduce public disruption.

**Cost Estimating and Permitting:** Estimates at all design phases (30/60/90/100%), plus support for permitting and bidding.

**Drainage and Foundation Design:** Integrated stormwater solutions and foundation systems tailored to site-specific needs.

**Utility Coordination and Public Involvement:** Stakeholder engagement and SUE investigations to address utility conflicts.

**Sustainability and Resiliency:** Future-ready designs that address sea level rise, extend service life, and minimize lifecycle costs.

We are committed to delivering technically sound, timely, and collaborative solutions that support the City’s vision for a safe, connected, and resilient infrastructure system.

**Proposed Approach**

HBC’s approach to the City’s Structural Engineering Services Contract is **rooted in technical precision, resilient design, and minimal disruption to the community.** We recognize that Fort Lauderdale’s structural assets—ranging from bridges and seawalls to utility and plant infrastructure—are vital to public safety, connectivity, and long-term sustainability. Our team applies proven engineering methods and innovative materials to ensure durability, regulatory compliance, and alignment with the City’s resiliency and sea level rise adaptation goals.

**Key elements of our approach include:**

**Early Coordination:** Collaborating with City staff from the outset to define scope, span layout, borings, and permitting to keep schedules on track.

**Minimized Disruption:** Implementation of phased construction and detailed TTCPs to maintain access; engage the public throughout the process.

**Resilient Design:** Use of corrosion-resistant

materials and efficient span configurations to reduce maintenance and environmental impact.

**Utility Coordination & Environmental Integration:** Leading of all utility coordination, SUE, and permitting to avoid conflicts and ensure compliance with agency requirements.

**Comprehensive Deliverables:** Providing of full design packages, load ratings, estimates, and QA/QC in line with FDOT and AASHTO standards.

HBC’s local team is committed to delivering durable, cost-effective solutions with minimal disruption and maximum value for the City.

**Project Team & Key Personnel**

For this contract, we will partner with **EAC Consulting, Inc. (EAC) (CBE, MBE), EV Services, Inc. (EVS) (M/WBE), Geosol, Inc. (GEO) (DBE, MBE, SBE), GPI Geospatial, Inc. (GPI), KCI Technologies, Inc. (KCI), Moffatt & Nichol, Inc. (M&N) (CBE), Terracon Consultants, Inc (TER), Tierra South Florida, Inc. (TSF) (DBE), UnderwaterHydrolic LLC (UWH), and V3 Architectural Group, Inc. (V3)** This experienced and diverse team is committed to providing the services as requested in this solicitation ensuring a blend of local insight and nationwide expertise.

On the next page is **Table 1: Key Individuals**, which defines our supervisory staff and key individuals who will be directly involved with the work and their office locations.

**Commitment to the City of Fort Lauderdale**



HBC is committed to delivering structural engineering services that are practical, resilient, and tailored to the City of Fort Lauderdale’s infrastructure priorities. Our local knowledge, technical expertise, and proven record with municipal clients make us a trusted partner for the City’s Public Works Department. We welcome the opportunity to collaborate closely with City staff, stakeholders, and the community to develop sustainable, forward-thinking solutions that enhance safety, extend asset life, and support Fort Lauderdale’s long-term infrastructure goals.

# 3.A | FIRM QUALIFICATIONS AND EXPERIENCE

**HBC Engineering Company (HBC)**, founded on **June 15, 2006**, is a Florida-registered **S-Corporation** and a licensed engineering consulting firm under (**License No. 27160**), authorized to practice engineering and conduct business in the State of Florida (**Document No. P06000082280**). Specializing in civil, structural, transportation, and waterresources engineering, HBC serves municipal and private sector clients, providing expertise in transportation planning, traffic engineering, highway and bridge design, mechanical and electrical engineering, CEI, construction administration, master planning, grant application support, staff augmentation, and public involvement.

**With over 70 engineers and technicians and 19 years of experience**, today HBC is known for its ability to tailor projects to specific client needs, ensuring high-quality, expedited service that meets the demands of regulatory agencies, funding cycles, and project constraints. The company has worked extensively in City of Miami, City of Hollywood, City of Riviera Beach, City of Fort Lauderdale, Miami-Dade, Broward, Palm Beach, and Orange County, serving public entities such as the Florida Department of Transportation (FDOT), Florida’s Turnpike Enterprise (FTE), and Greater Miami Expressway (GMX).

**HBC is dedicated to providing innovative, reliable, and cost-effective engineering solutions, while building strong client relationships and delivering excellence in infrastructure development.**

HBC holds multiple certifications, including **DBE, MBE, and SBE in Florida and CBE in Broward County**, demonstrating its commitment to diversity and inclusion. The firm prides itself on delivering exceptional performance, cost-effective solutions, and client-focused service. Its project management approach ensures timely and efficient project completion while maintaining high industry standards, reinforcing its reputation for excellence and reliability.

**490+**

Total projects completed

**5.2B+**

Construction dollar value of projects

**19**

Years of relevant experience

**70+**

Dedicated staff for the City

For this contract, HBC brings a highly qualified team with deep expertise in bridge and structural engineering, tailored to meet the requirements outlined in **RFQ #449 – Structural Engineering Services Contract**. Our team has successfully delivered structural design, assessment, rehabilitation, and permitting services for municipal clients across Florida. We are experienced in supporting continuing services contracts and are well-equipped to assist the City of Fort Lauderdale’s Public Works Department with infrastructure solutions that are technically sound, community-conscious, and resilient. HBC’s local office at **5200 NW 33rd Avenue, Suite 211, Fort Lauderdale, FL 33309**, will serve as the base of operations. The primary point of contact is **Sreelatha Nandivada, MS, PE**, who will serve as the Project Manager and lead coordination with City staff.



**HBC Engineering Company**

proposals@hbcengineeringco.com  
(305) 232-7932  
hbcengineeringco.com

**Sreelatha Nandivada, MS, PE**

Project Manager  
snandivada@hbcengineeringco.com  
(954) 519-2199



## HBC'S TECHNICAL CAPABILITIES

### Bridge Design & Structural Engineering

Design and rehabilitation of bridges, seawalls, and water/wastewater structures using concrete, steel, and advanced materials like FRP.

### Structural Assessments

Load ratings, condition evaluations, and development of short- and long-term structural plans.

### Drainage & Foundations

Integrated drainage design and foundation systems including auger cast piles and spread footings.

### Utility Coordination & SUE

Conflict resolution through SUE investigations and agency coordination.

### Sustainability & Resilience

Climate-adaptive designs and green infrastructure for coastal and flood-prone areas.

### Project Management & QA/QC

Multidisciplinary team leadership, compliance, and quality oversight.

### Permitting Expertise

Local, state, and federal permitting, including FDOT and FDEP coordination.

### Construction Docs & CEI Support

Complete construction plans, specs, phased cost estimates, and CEI coordination.

### Public Engagement

Stakeholder coordination, outreach meetings, and community presentations.

## HBC STAFFING BY THE NUMBERS



3 Structural Engineers



14 CEI and Contract Management Professionals



13 Civil and Transportation Engineers



8 Traffic and ITS Engineers



4 Lighting and Electrical Engineers



12 Water and Drainage Engineers

## WHAT SETS HBC APART FOR THIS CONTRACT?

- **A Multidisciplinary Expert Team:** HBC's structural engineers, planners, and specialists deliver integrated solutions for bridges, seawalls, utilities, and permitting—aligned with the City's infrastructure goals.
- **A Data-Driven Approach:** HBC prioritizes clear communication and public engagement to support project success. We work closely with City staff, stakeholders, and neighborhood groups to ensure infrastructure solutions reflect community needs, minimize disruptions, and align with Fort Lauderdale's long-term vision.
- **A Community-First Strategy:** HBC supports the City's commitment to stakeholder collaboration and clear public communication. We will work closely with City staff, neighborhood associations, and key stakeholders to ensure that structural improvements—whether bridge replacements, seawalls, or other infrastructure—reflect community needs, minimize disruption, and align with Fort Lauderdale's infrastructure goals.
- **A Commitment To Results:** HBC emphasizes practical, phased implementation backed by accurate cost estimates and funding guidance. Our focus on buildable solutions ensures the City can move seamlessly from concept to construction—delivering resilient, high-quality infrastructure that supports Fort Lauderdale's long-term vision.



## SUSTAINABILITY AT OUR WORKPLACE



### Paper Reduction & Recycling

Transitioning to digital documentation.

Double-sided printing as default.

Office-wide paper recycling bins.



### Energy Efficiency

Using LED or energy-efficient lighting.

Motion-sensor lights office-wide.



### Waste Reduction

Eliminating the use of single-use cups.

Providing reusable kitchenware and dishwashing options.



*Committed to excellence.  
Powered by purpose.*

## SUSTAINABLE PRACTICES IN DESIGN

HBC is dedicated to sustainable design practices, reinforced by our continuous approach to fostering efficiency and energy savings on this contract. Our infrastructure improvements and upgrades strategy are rooted in sustainable engineering practices, ensuring that resource utilization and project implementation do not compromise the natural environment or burden future generations.

We have successfully integrated several approaches to meet the sustainable development goals in our previous projects, and we will maintain the same focus on this contract.

For each project we undertake, we propose various methodologies to achieve certification credits for sustainability, when necessary. Our efforts will focus on steps, techniques, and technologies to minimize the environmental footprint and energy consumption throughout the planning, pre-design, design, post-design, and post-construction phases.

Some methods we proposed in previous contracts include:

- Incorporating hydrodynamic separation devices in stormwater management infrastructure has proven to be a significant success factor for projects requiring improvements in water quality standards.
- Directing stormwater drainage from green areas to underground cisterns for irrigation needs.
- Utilizing sustainable construction materials.
- Employing smart water management solutions.
- Limiting disturbance around the project construction site.
- Planting low-maintenance grass and vegetation on roofs, sustained solely by natural rain.
- Providing dedicated charging station stalls for electric vehicles.
- Incorporating green infrastructure.
- Designing pervious pavements.



# HBC TEAM AWARDS AND RECOGNITIONS

### American Council of Engineering Companies (ACEC)

2023 Outstanding Project Award-Venetian Causeway Improvements Bridges PD&E Study

### American Association of Civil Engineers (ASCE)

2023 Awards & Board Installation Dinner Certificate of Appreciation 2023 - Silver Sponsor of the ASCE

2022 Awards & Board Installation Dinner Certificate of Appreciation 2022 - Silver Sponsor of the ASCE

2024 Engineer of the Year Award - Claudia Bustamante, MS, PE

### Cuban American Association of Civil Engineers (CAACE)

2021 Project of the Year Category III Award for the Miami-Dade County Water and Sewer Department (MDC-WASD) Central District Wastewater Treatment Plant (CDWWTP) Oxygen Production Facility

### Florida Department of Transportation (FDOT)

2006 Special Achievement Award  
2005 Highway Engineering Award  
2004 Team Achievement Award - Biscayne Boulevard III

### Intelligent Transportation Society of Florida

2024 Outstanding Achievement Award - Daniel Rodriguez, MS, PE

### The Miami-Dade County Office of the Mayor and Board of County Commissioners

2019 Certificate of Appreciation - Platinum Sponsor of the 6th Annual District 1 Black Heritage Festival  
2020 Certificate of Appreciation - Bronze Sponsor of the 7th Annual District 1 Black Heritage Festival

### The Nigerian Women Association of Georgia (NWAG)

2023 Sponsor Award

HBC is engineering progress with purpose, precision in motion, built on trust and vision.

## WHY THESE AWARDS MATTER

Each award reaffirms our dedication to technical excellence, value-driven solutions, and collaborative relationships. They serve as milestones on our mission to serve clients with integrity and impact.

*Let's build something award-winning—together.*



## PAST EXPERIENCE



### Turnpike Resurfacing from MP 227 to MP 235

**Location:** Osceola County, FL

**Client:** Florida's Turnpike Enterprise (FTE)

HBC personnel conducted load rating analysis and structural evaluations for Bridge No. 920042 as part of a comprehensive project on Florida's Turnpike Mainline (SR-91) from Milepost 227.0 to 235.0 in Osceola County. The project scope included milling and resurfacing, safety enhancements, and infrastructure upgrades, excluding ramps at the Canoe Creek Service Plaza. Tasks involved assessing existing roadway conditions, repairing base failures and full-depth cracks, constructing rumble strips, overlaying approach slabs, and addressing drainage, guardrail, and bridge joint issues. Additional efforts included a 3D model for cross slope correction, temporary detours, and compliance with Florida's Turnpike Lane Closure Policy. **This project was completed on time and on budget.**



### Brant Dr Bridge Replacement from Oregon Ln to Avocet Rd

**Location:** Boca Raton, FL

**Client:** FDOT District 4

HBC personnel participated in quality control for the complete design of two accessible gantries, as part of the Brant Drive Bridge Replacement project, led by PHD for FDOT District 4. The new bridge features two travel lanes and shared-use paths on both sides, with additional path extensions along the roadway from north of Oregon Lane to south of Avocet Road. The project included ADA upgrades, drainage improvements, pavement markings, utility coordination, survey, and geotechnical exploration, enhancing connectivity between the City of Boca Raton and Delray Beach. **This project was completed on time and on budget.**



### SR-836/I-95 from West of I-95 to Macarthur Cswy Bridge

**Location:** Miami-Dade County, FL

**Client:** Archer Wester/De Moya Joint Venture

HBC personnel performed comprehensive bridge geometry calculations for bearings, pedestals, and superstructure buildup design, ensuring proper alignment, elevation profiles, and structural layout in accordance with design specifications and applicable standards. They designed bearing systems to accommodate thermal and structural movements, led the structural design of bridge piers considering load combinations and seismic demands, and developed expansion joint designs for long-term performance. Their work included producing detailed construction drawings for piers and foundations, calculating steel reinforcement quantities for accurate cost estimation, and conducting QA/QC of all structural calculations to ensure compliance, safety, and constructability. **This project is on track to be completed on time and on budget.**

## PAST EXPERIENCE



### SR-60 Over US-27 Bridge Replacement

**Location:** Polk County, FL

**Client:** Prince Contracting

HBC personnel developed the design for bridge end bents and foundation piles, ensuring structural stability and geotechnical adequacy under design loads. They verified the bridge deck design by reviewing structural integrity, reinforcement detailing, and compliance with relevant codes and specifications. Additionally, they performed the redesign of temporary sheet pile walls to accommodate updated construction requirements, ensuring effective soil retention and safety during excavation and substructure activities. **This project was completed on time and on budget.**



### Atlantic Boulevard Over East Outfall

**Location:** Coral Springs, FL

**Client:** Broward County

HBC performed major bridge rehabilitation on Broward County-owned twin bridges on Atlantic Boulevard over the East Outfall Canal in Coral Springs, addressing structural deficiencies identified in FDOT inspections. The work included substructure and superstructure repairs, replacement of deteriorated components, reinforcement of load-bearing elements, concrete restoration, protective coatings, new expansion joints, and bridge deck resurfacing and waterproofing. All improvements were completed in accordance with FDOT standards to enhance safety, functionality, and durability while minimizing public disruption and maintaining environmental compliance. **This project was completed on time and on budget.**



### SR-656/17th Street East End of Bridge No. 880077

**Location:** Vero Beach, FL

**Client:** FDOT District 4

HBC is providing Roadway and Signing & Pavement Markings (S&PMs) design services for the repair of deteriorated spans at the east end of Bridge No. 880077, a 4,730.5-foot-long structure carrying SR-656/17th Street over the Indian River Lagoon and Intracoastal Waterway. The project includes milling and resurfacing of the bridge approaches, replacement of the east-end approach slab, and updated S&PMs to restore markings impacted by Maintenance of Traffic (MOT) and meet current standards, all aimed at extending the bridge's service life and ensuring continued safe operation. **This project is being completed on time and on budget.**

## PAST EXPERIENCE



**CEI Annual Services Contract 2021052 - Task Work Order 5:  
Donald Ross Rd Bascule Bridge**  
**Location:** Palm Beach County, FL  
**Client:** FDOT District 4

As part of the CEI Annual Services Contract, **HBC** led all CEI responsibilities for the Donald Ross Road Bascule Bridge Project in Palm Beach County, including inspection, materials testing, utility coordination, contractor oversight, documentation, stakeholder communication, and proactive issue resolution to ensure compliance, minimize conflicts, and maintain project progress. **This project was completed on time and on budget.**



**GMX ITB 21-06 Bridge Joints Maintenance**  
**Location:** Miami-Dade County  
**Client:** Greater Miami Expressway Agency (GMX)

**HBC's** senior inspector oversaw the different types of joint repairs including the concrete restoration spal and crack and seal joint system. He also oversaw MOT and safety procedures for the project. This project consisted of the joint repair for 4 corridors including SR-874/ Don Shula Expressway, SR-878/Snapper Creek Expressway, SR-836/ Dolphin Expressway, and SR-924/Gratigny Parkway. **This project was completed on time and on budget.**



**Bridge on IH-10 at US-69 EB Overpass at 11th Street**  
**Location:** Beaumont, TX  
**Client:** TXDOT

**HBC** personnel designed the superstructure for the 12-span, prestressed concrete girder bridge on IH-10 at the US-69 EB Overpass at 11th Street, as part of the IH-10 bridge cluster projects in Texas. The bridge design consisted of integral end bents, nine intermediate bents with inverted T bent caps, spans ranging from 9 to 12 prestressed girders, and lengths ranging from 93' to 113'. **This project was completed on time and on budget.**



**Riverwalk North Seawall Replacement Project**  
**Location:** Fort Lauderdale, FL  
**Client:** City of Fort Lauderdale

**HBC** is providing design services for the replacement of the Riverwalk North seawall, starting from the Andrews Avenue bridge and extending five hundred feet west toward the FXE train track. The project includes the design of a new seawall in the form of sheet piling in front of the existing concrete seawall on the river-facing side. It also involves the demolition of the existing concrete catwalk located in front of the seawall, the installation of fixed docks attached to the new seawall, and the installation and attachment of new floating docks and amenities. Additional work includes the relocation of utilities currently attached to the concrete catwalk, as well as the replacement of utility stations located along it. **This project is being completed on time and on budget.**

## PAST EXPERIENCE



### Fort Lauderdale International Airport Airfield Development Program

**Location:** Fort Lauderdale, FL

**Client:** Fort Lauderdale International Airport

HBC Engineering Company provided design and construction services for the development of Airside Drainage Construction Documents, ensuring compliance with all regulatory standards and project requirements. The scope included plans for large rectangular drainage structures and 66-inch concrete pipes connecting Ponds AM and E, reflecting the elimination of Taxiway E-3. The Pond T grading plan was revised to accommodate the removal of the VASI system and installation of the PAPI and Runway Distance Remaining devices. Drainage areas U, V-1, V-2, W-1, W-2, X, Y, Z-1, and Z-2 were also modified and transferred to the Runway Overlay Project. HBC prepared the Environmental Resource Permit (ERP) to obtain the Drainage Construction Permit. **This project was completed on time and on budget.**



### Holiday Inn Express & Suites

**Location:** Ft. Walton Beach, FL

**Client:** Jay Odom Group

HBC Engineering Company personnel served as the Senior Structural Engineer for the structural analysis and design of a 4-story masonry building with transferred steel girders and hollow core plank slab. The tasks included structural modeling and analysis using ETABS, masonry shear wall design, structural analysis and design of steel transferred beams and columns using SAP2000, and concrete foundation analysis and design using CSI SAFE. A sanity check of structural elements was performed using Enercalc, Mathcad, and spreadsheets. HBC personnel also served as the lead drafter responsible for producing detailed structural drawings and coordinating with the architectural team. Additional responsibilities included reviewing shop drawings, responding to RFIs during construction, and assisting with field issue resolution to ensure structural intent and design compliance. **This project was completed on time and on budget.**



### CEI Services for the Wabasso Drive over LWDD L-2

#### Canal Bridge Replacement Project

**Location:** West Palm Beach, FL

**Client:** Palm Beach County

HBC provided CEI services for the federally funded bridge replacement project along Wabasso Drive over the LWDD L-2 Canal, from Aspen Road to Oswego Avenue in Palm Beach County. The scope included removing the existing bridge and installing a new 8' x 12' box culvert, along with full roadway reconstruction featuring two 10-foot lanes, a 4-foot sidewalk, and 10-foot grass swales. The project also involved drainage upgrades, asphalt paving, pavement markings, pedestrian improvements, and landscaping. Funded through FHWA and HUD's CDBG program, HBC ensured compliance with all reporting requirements to Palm Beach County HED. This work highlights HBC's CEI capabilities in federally funded infrastructure, drainage, and mobility upgrades. **This project is being completed on time and on budget.**

## PAST EXPERIENCE



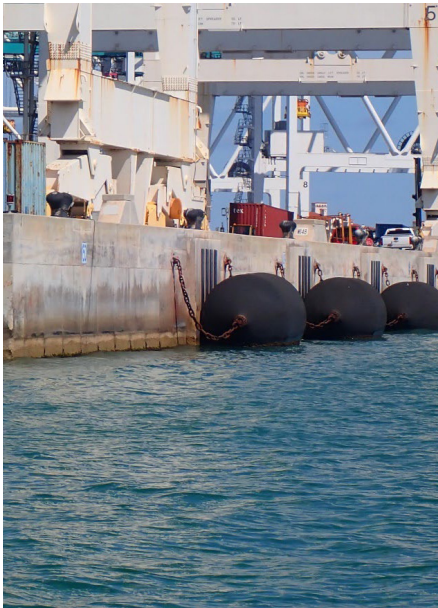
### Water Treatment Plant No. 2 Expansion

**Location:** West Palm Beach, FL

**Client:** Palm Beach County Water Utilities Department

HBC supported the Palm Beach County Water Utilities Department in the expansion of Water Treatment Plant No. 2 (WTP 2), a major initiative aimed at increasing treatment capacity, addressing emerging contaminants, and enhancing system reliability. HBC provided hydraulic analysis and modeling to guide system performance and treatment efficiency, electrical engineering services for infrastructure upgrades, permitting support to ensure regulatory compliance, and site-specific field investigations to inform design development. In collaboration with the prime consultant and County stakeholders, HBC contributed technical expertise to advance water infrastructure resilience and long-term operational performance.

**This project is being completed on time and on budget.**



### South Bulkhead Repairs Bays 148-155

**Location:** Miami, FL

**Client:** PortMiami

HBC supported PortMiami on a waterfront infrastructure improvement project involving the removal of a Roll-On/Roll-Off (RORO) pier and the demolition and reconstruction of the existing bulkhead concrete cap. Scope elements included replacing mooring and berthing components such as bollards and fenders and installing a relieving platform to support mobile harbor crane operations. HBC modified existing site utilities to accommodate the removal of water and electrical ship service stations and coordinated the raising of the finish grade pavement with a 0.5% transition slope to allow crane access. Additional services included storm drainage improvements, grading, pavement design, and the installation of sheet pile corrosion protection systems using both encasement and externally mounted anodes. This work highlights HBC's expertise in marine infrastructure upgrades, utility coordination, and corrosion protection.

**This project is being completed on time and on budget.**



### Structural Assessment on Liebherr Building

**Location:** Hialeah Gardens, FL

**Client:** Liebherr USA, Co

HBC was engaged by Liebherr USA, Co. to perform a detailed structural assessment of the Liebherr Building located at 15101 NW 112th Avenue in Hialeah Gardens, FL. The objective was to evaluate the structural integrity and stability of the facility's key components, including the foundation, columns, beams, and floors. Using advanced diagnostic tools, HBC identified any signs of damage, deterioration, or weaknesses that could affect long-term performance. The team also reviewed construction materials for compliance with current safety standards. Findings were compiled in a comprehensive structural report with recommendations for repairs, maintenance, or upgrades to ensure continued safety and functionality. This work demonstrates HBC's expertise in structural evaluation and proactive risk mitigation for industrial facilities.

**This project was completed on time and on budget.**

## PAST EXPERIENCE



### Thru by Hilton Hotel

**Location:** Condado, PR

**Client:** Nestor J. Ruiz

**HBC Personnel** served as Senior Structural Engineer for the analysis and design of an 8-story post-tensioned concrete building with an elevated car park in Condado, Puerto Rico. Scope included structural modeling, irregularity checks, and seismic analysis using ETABS, along with design of concrete shear walls and columns. Initial post-tension design was performed using SAFE to provide data for the contractor, including punching shear and stud rail design. Additional responsibilities included foundation and steel structure design, steel connection detailing using IdeaStatica, and element verification using Eneccalc, Mathcad, and spreadsheets. HBC also led the preparation of detailed structural drawings. This work highlights HBC's expertise in post-tensioned concrete systems, seismic design, and structural documentation for mid-rise buildings. **This project was completed on time and on budget.**



### Element Hotel by Westin.

**Location:** Grand Lagoon, FL

**Client:** The Jay Odom Group

**HBC Personnel** served as Senior Structural Engineer for the analysis and design of the 5-story Element Hotel by Westin, which included two design options: CMU walls with a post-tensioned slab or a hollow core slab system. Scope included structural modeling and analysis using ETABS, masonry shear wall design, and initial post-tension slab design. Steel transferred beams and columns were designed using SAP2000, and foundation design was completed using CSI SAFE. Steel connection detailing was performed using IdeaStatica, with element verification using Eneccalc, Mathcad, and spreadsheets. HBC also led the development of detailed structural drawings. This work highlights HBC's expertise in system comparison, post-tension and hollow core design, and structural documentation for hospitality developments. **This project was completed on time and on budget.**



### SR-408 Eastbound, 4th Lane Addition from OBT (US-441) to I-4

**Location:** Central FL

**Client:** Central Florida Expressway Authority

**HBC personnel** contributed structural engineering services to the CFX 408-315A project, which extended the fourth eastbound lane of SR-408 to I-4 and eliminated traffic weaving between Orange Blossom Trail (OBT) and the I-4 exit ramp to enhance traffic flow and accessibility. The project scope included new entrance and exit ramps, modification of Bridge No. 750240, widening of Bridges No. 750241 and 750931, and construction of new Bridges No. 750983, 750984, and 750985. Additional components included a braided ramp bridge, noise and retaining walls, ITS, lighting, signage, and a new toll facility. This work demonstrates HBC's capabilities in complex bridge design, structural detailing, and multidisciplinary coordination for large-scale transportation infrastructure. **This project was completed on time and on budget.**

## PAST EXPERIENCE



### Venetian Causeway PD&E Study & Final Design

**Location:** Vero Beach, FL

**Client:** Dept of Transportation & Public Works/FDOT District 6

The \$101 million Venetian Causeway Bridge Replacement Project in Miami-Dade County, funded by the FHWA's Bridge Investment Program, will replace 11 aging bridges with resilient, code-compliant structures designed to last 50 years. Honored with the **2023 ACEC Outstanding PD&E Project Award**, the project features American-made materials and modern safety enhancements. **EAC** is supporting with the design of all bridges—one bascule and 10 medium-span—along with construction documents, a temporary bridge for traffic continuity, drainage systems, lighting (pier, navigation, and corridor), and electrical load analysis. Additional responsibilities include signing, pavement markings, utility coordination, geotechnical work, environmental permitting, and agency coordination. **EAC's** integrated approach ensures a safer, multimodal, and future-ready causeway. **This project is being completed on time and on budget.**



### Districtwide Structures Review and Design

**Location:** Districtwide

**Client:** FDOT District 6

Since 2010, **EAC Consulting** has served as an extension of FDOT staff, providing district-wide plans review and structural design services for both Minor and Major bridges. Their design work has included Category 2 steel bridges, retaining walls, soldier pile walls, light pole foundations, sign structures, sheet pile walls, drilled shafts, auger cast piles, micropiles, and pump stations. **EAC's** responsibilities also included reviewing BDRs, PD&E reports, conceptual designs, phase submittals, and final design plans. **All projects were completed, and will continue to be completed on time and on budget.**



### Bridge Load Rating

**Location:** Districtwide

**Client:** FDOT District 6

**EAC Consulting** has rated over 200 concrete, steel, and segmental bridges over the past 10 years under design live loads, permit loads, and EV loads. Refined analysis techniques were applied as needed to improve rating results. The team is highly familiar with FDOT procedures and processes for bridge load rating and reporting. **All projects were completed, and will continue to be completed on time and on budget.**



### North Cruise Blvd Flyover Bridge

**Location:** Miami, FL

**Client:** PortMiami

**EAC Consulting** led the roadway and bridge flyover improvements at PortMiami to address adverse traffic flow conditions. The flyover consists of a 2-span bridge with skewed, curved steel plate girders and staggered

## PAST EXPERIENCE

cross frames, supported by auger-cast pile foundations to minimize impact and vibration during construction. The project received the 2024 ASCE Miami-Dade Category 2 Project of the Year Award. **This project was completed on time and on budget.**



**SR-408 Eastbound (EB), 4th Lane Addition from OBT (US-441) to I-4**

**Location:** Various locations in Central, FL

**Client:** Central Florida Expressway Authority (CFX)

The CFX 408-315A project extended the fourth eastbound lane of SR-408 to I-4 and eliminated the weaving section between Orange Blossom Trail (OBT) and the I-4 exit ramp, improving traffic flow and access to SR-408 and I-4. Key components included new and modified entrance and exit ramps, enhancements to several bridges (modifications, widenings, and new constructions), and the addition of a braided ramp bridge. The project also incorporated noise walls, retaining walls, signage and pavement markings, ITS, lighting, and a toll facility, with bridge work involving structures over S. Parramore Avenue, Hicks Avenue, S. Division Avenue, and S. Westmoreland Drive. **This project was completed on time and on budget.**

# BUSINESS CERTIFICATIONS AND LICENSES

HBC is certified, permitted, and licensed to do business in the State of Florida. Below is a copy our current corporate charter to represent that we are in good standing, our company licenses, registrations and specialty certifications.

## *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, 2025, that its most recent annual report/uniform business report was filed on January 2, 2025, 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 Second day of January, 2025*




  
*Secretary of State*

Tracking Number: 9678191690CC  
To authenticate this certificate, visit the following site, enter this number, and then follow the instructions displayed.  
<https://services.sunbiz.org/Filings/CertificateOfStatus/CertificateAuthentication>



**CITY OF FORT LAUDERDALE**  
BUSINESS TAX YEAR 2024-25



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

**Business ID:** BL-1803157      **Business Name:** COKER/ADEBAYO T

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

ADEBAYO T COKER  
HBC ENGINEERING COMPANY  
8935 NW 35 LN # 201  
DORAL FL 33172

**TAX CATEGORIES**  
408800 ENGINEER

**Contact:** ADEBAYO T COKER  
**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 [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

**BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT**  
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829  
VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

**Business Name:** HBC ENGINEERING COMPANY      **Receipt #:** 315-241832  
**Business Type:** 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:** FT LAUDERDALE  
**Business Phone:** 305-232-7932      **Exemption Code:**

Rooms	Seats	Employees	Machines	Professionals
		5		

For Vending Business Only						
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
Resident Fee				30.00		
Packing/Processing/Canning Employees				0.00		

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

**THIS BECOMES A TAX RECEIPT** 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.

**WHEN VALIDATED**

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

**Receipt #** 315-241832  
**Paid** 08/15/2024 30.00

**2024 - 2025**

**BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT**  
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 – 954-357-4829  
VALID OCTOBER 1, 2024 THROUGH SEPTEMBER 30, 2025

**Business Name:** HBC ENGINEERING COMPANY      **Receipt #:** 315-241832  
**Business Type:** 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:** FT LAUDERDALE  
**Business Phone:** 305-232-7932      **Exemption Code:**

Rooms	Seats	Employees	Machines	Professionals
		5		

For Vending Business Only						
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
Resident Fee				30.00		
Packing/Processing/Canning Employees				0.00		

**Receipt #** 315-241832  
**Paid** 08/15/2024 30.00

THE OFFICIAL SITE OF THE FLORIDA 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**      6:12:37 PM 3/20/2025

**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:** Engineering Business Registry  
**Rank:** Registry  
**License Number:** 27160  
**Status:** Current  
**Licensure Date:** 09/15/2006  
**Expires:**

**Special Qualifications**      Qualification Effective

**Alternate Names**

View Related License Information  
View License Complaint



**OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT**  
Governmental Center Annex  
115 S. Andrews Avenue, Room A680 • Fort Lauderdale, Florida 33301 • 954-357-6400

February 6, 2024

Mr. Adebayo Coker, P.E.  
HBC ENGINEERING COMPANY  
5200 NW 33<sup>rd</sup> Avenue, Suite 211  
Fort Lauderdale, Florida 33309

Dear Mr. Coker:

The Broward County Office of Economic and Small Business Development (OESBD) is pleased to announce that your firm's County Business Enterprise (CBE) certification has been renewed.

Your firm's certification is continuing from your anniversary date but is contingent upon the firm verifying its eligibility annually through this office. You will be notified in advance of your obligation to continue eligibility in a timely fashion. **However, the responsibility to ensure continued certification is yours.** Failure to document your firm's continued eligibility for the CBE program within thirty (30) days from your anniversary may result in the expiration of your firm's certifications. Should you continue to be interested in certification after it has expired, you will need to submit a new application, and all required supporting documentation for review.

To review current Broward County Government bid opportunities, visit: [www.broward.org/Purchasing](http://www.broward.org/Purchasing) and click on "Current Solicitations and Results." Also, from this website, you can log into your firm's profile in BidSync to ensure you have added all appropriate classification codes. Bid opportunities over \$3,500 will be advertised to vendors via e-mail and according to classification codes, so please ensure that both the Purchasing Division and OESBD are apprised of your current e-mail address.

Your primary certification group is: **Architecture/Engineering Services**. This is also how your listing in our directory will read. You may access your firm's listing by visiting the Office of Economic and Small Business Development Directory, located on the internet at: [www.broward.org/EconDev](http://www.broward.org/EconDev) and click on "Certified Firm Directories."

Your firm may compete for, and perform work on Broward County projects in the following areas:

**NAICS CODE: 541330, 541890, 221320**

We look forward to working with you to achieve greater opportunities for your business through county procurement.

Sincerely,

Digitally signed by SANDY MICHAEL McDONALD  
DN: cn=SANDY MICHAEL McDONALD, o=OFFICE OF ECONOMIC AND SMALL BUSINESS DEVELOPMENT

Sandy-Michael McDonald, Director  
Office of Economic and Small Business Development

**Cert Agency - BC-CBE**  
**ANNIVERSARY DATE: February 7<sup>th</sup>**

Broward County Board of County Commissioners  
Mark D. Bogen • Lamar P. Fisher • Sean Furr • Steve Geller • Robert McInnis • Han H. Rhee • Tracey P. Rogers • Tim Ryan • Michael Usdie  
Broward.org



# 4 | QUALIFICATIONS OF THE PROJECT MANAGER



## Sreelatha Nandivada, MS, PE Project Manager

Sreelatha is an accomplished structural engineer experienced in bridge design, preservation, and rehabilitation, and load rating analysis. She has been responsible for the design and quality control of structural engineering projects that include reinforced concrete box culverts, corded slab girders, box beam girders, prestressed concrete girders, steel girders, and a variety of substructure design. Sree has also been responsible for load rating and QC of load ratings for hundreds of structures for various states and municipalities including curved girder bridges, girder floorbeam systems, trusses, and concrete arches.

### Expertise & Key Responsibilities

- **Structural and Bridge Engineering** - Designed multi-span bridges with complex substructure systems across various DOT projects, including the I-10 bridge in Texas.
- **Bridge Design (Steel, Concrete, Precast, Nu-Girders, Trusses)** - Led the design of a 3-span NU-Girder bridge for MODOT's Route J over Big Creek, incorporating drilled shaft foundations and integral bents.
- **Bridge Load Rating (LRFR & LFD Methodologies)** - Performed LRFR analysis for municipal bridges in NC and AL using AASHTOW are BrR and Excel-based modeling.
- **Seawall and Waterfront Structural Engineering** - Engineered resilient waterfront structures including bulkheads and foundation systems, applying FHWA and ASCE standards.
- **Coastal Infrastructure Design (Bulkheads, Retaining Walls, Erosion Protection)** - Designed retaining walls and foundation systems for marine applications, with corrosion mitigation strategies.
- **Structural Modeling, Seismic and Wind Load Analysis** - Developed seismic and wind-resistant structural models for a steel boathouse in Baytown, TX, using RISA under hurricane-level conditions.
- **Cold-Formed Steel Design and Deck Systems** - Managed cold-formed steel deck product design and analysis, contributing to ANSI/SDI standards and internal testing protocols.
- **Substation and Industrial Structure Design** - Designed high-voltage bus support structures for Ameren substations, using STAAD.Pro and ACI 318 guidelines.
- **Structural Condition Assessments and Inspections** - Performed condition assessments and repair strategies for traffic signal support structures across Hartford, CT.
- **Traffic Signal and Sign Support Structure Evaluation** - Reviewed and evaluated over 3,000 traffic signal support structures and developed a GIS-linked condition rating system.

### Relevant Experience

- **Old Salisbury Road Bridge Replacement over South Fork Muddy Creek** - Led the superstructure design and substructure QC review.
- **I-10 at 69 EB Overpass at 11th Street** - Designed a 12-span prestressed girder bridge.
- **Replacement of Bridge 241 on SR-3011 over South Fork Muddy Creek** - Provided drawings, plans, QC, and accelerated bridge construction evaluation.
- **Route J over Big Creek** - Performed preliminary design for three-span NU-Girder bridge.

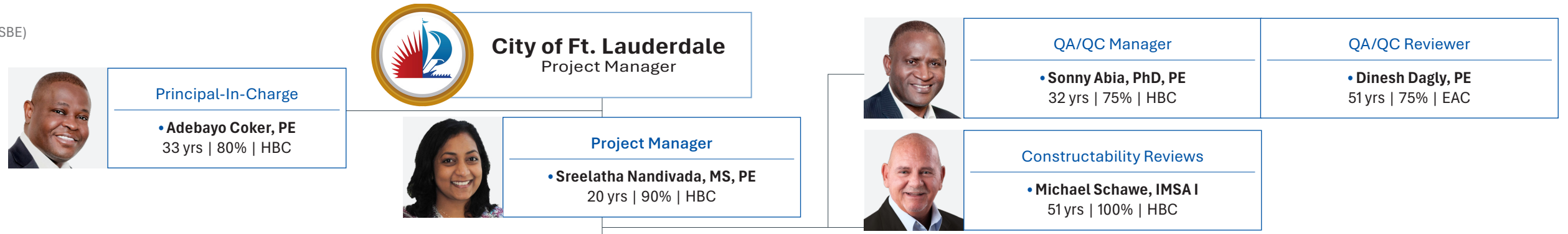
**Table 1: Key Individuals**

Firm	Supervisory Staff/ Key Individuals	Services Provided	Office Location	
HBC	Adebayo Coker, PE	Principal-In-Charge	5200 NW 33rd Ave, Ft Lauderdale, FL	
	Sreelatha Nandivada, MS, PE	Project Manager   Structural / Bridge / Misc Structures <b>Lead</b>		
	Bunrith Heng, MS, PE	Structural / Bridge / Misc Structures   Non linear Finite Elements Analysis <b>Lead</b>		
	Aneuris Hernandez, MS, EI	Structural / Bridge / Misc Structures		
EAC	KT Lin, PhD, PE	Structural / Bridge / Misc Structures	5100 NW 33rd Ave, Ft Lauderdale, FL	
HBC	Hernan Lugo, MS, PE, CFM	Hydraulic Structures, Design, and Modeling <b>Lead</b>   Drainage Engineering <b>Lead</b>   Plans Review	5200 NW 33rd Ave, Ft Lauderdale, FL	
M&N	Lawerence DeRose, PE	Hydraulic Structures, Design, and Modeling   Permitting   Mechanical Engineering	100 W. Cypress Creek Rd, Ft Lauderdale, FL	
M&N	Jacqueline M. Brower, PhD, PE	Hydraulic Structures, Design, and Modeling   Stream Mitigation Site Plan <b>Lead</b>   Wetland, Stream & Buffer Permitting <b>Lead</b>   Environmental Engineering		
M&N	Jade D. Bennett, PE	Wetland, Stream & Buffer Permitting   Erosion Control <b>Lead</b>		
M&N	Vanessa Benzecry, PhD, PE	Environmental Engineering <b>Lead</b>   Permitting		
UWH	Shaune Rogers	Underwater Inspection Services <b>Lead</b>	305 NW 8th Ct, Pompano Beach, FL	
KCI	Todd Mohler, RLA, ISA, IA	Landscape Architecture <b>Lead</b>	1425 W. Cypress Creek Rd, Ft Lauderdale, FL	
EVS	Esther Monzon Aguirre	Public Involvement <b>Lead</b>	2877 SW 69th Ct Miami, FL	
GEO	Oracio Riccobono, PE	Geotechnical Engineering <b>Lead</b>   Materials Testing <b>Lead</b>	5795-A NW 151st St, Miami Lakes, FL	
TSF	Raj Krishnasamy, PE	Pavement Analysis & Design <b>Lead</b>   Geotechnical Engineering	2765 Vista Pkwy, West Palm Bch, FL	
HBC	Sonny Abia, PhD, PE	QA/QC Manager   Utility Coordination <b>Lead</b>   Permitting <b>Lead</b>	5200 NW 33rd Ave, Ft Lauderdale, FL	
EAC	Dinesh Dagly, PE	QA/QC Reviewer	5100 NW 33rd Ave, Ft Lauderdale, FL	
GPI	Frank Paruas, PSM	Survey, Mapping, and SUE <b>Lead</b>   Right of Way Services <b>Lead</b>	8935 NW 35th Ln, Doral, FL	
TER	Andrew Povost, AMPP SCCI, AWI CWI, MT, PT	Non Destructive Testing	16200 NW 59th Ave Ste 106, Miami Lakes, FL	
HBC	Keith B. DeLuca, Jr., IMSA II	Schedule & Project Control / Cost Estimator <b>Lead</b>	5200 NW 33rd Ave, Ft Lauderdale, FL	
HBC	Edgar Diaz, MS, PE, PSM	Bidding/Bid Evaluation <b>Lead</b>   Plans Review <b>Lead</b>   Feasibility Studies <b>Lead</b>		
HBC	Teodoro Tefel, PE	Plans Review   Maintenance of Traffic <b>Lead</b>		
HBC	Jose A. Lopez, PE	Roadway Engineering <b>Lead</b>		
HBC	Christopher Soto, PE, RSO	Senior Project Engineer		
HBC	Michael Schawe, IMSA I	Construction Administration   Constructability Reviews <b>Lead</b>		
HBC	Claudia Rodriguez, PE, IMSA I	Contract Support Spc/Resident Compliance Spc		
HBC	Gonzalo Barrera, PE	Signalization Engineering <b>Lead</b>		
HBC	Claudia Bustamante, MS, PE	Signing & Pavement Marking Engineering <b>Lead</b>		
HBC	Moatz Saad, PhD, PE, PTOE, IMSA II	Traffic Engineering <b>Lead</b>		
HBC	Orlando Penate, PE, IMSA III	Lighting/Electrical Engineering <b>Lead</b>		
HBC	Fernando Craveiro de Sa, PhD, EI	Grant Writing <b>Lead</b>		9675 NW 117th Ave, Miami, FL

Sincerely,  
**Adebayo Coker, PE**  
 President/Principal-in-Charge  
 HBC Engineering Company

# Organizational Chart: RFQ/EVENT# 449: Structural Engineering Services Contracts

LEGEND  
 HBC ... HBC Engineering Company (DBE, MBE, SBE)  
 EAC ... EAC Consulting, Inc. (CBE, MBE)  
 GEO ... Geosol, Inc. (DBE, MBE, SBE)  
 GPI ... GPI Geospatial, Inc.  
 KCI ... KCI Technologies, Inc.  
 M&N ... Moffatt & Nichol, Inc. (CBE)  
 TER ... Terracon Consultants, Inc.  
 TSF ... Tierra South Florida, Inc. (DBE)  
 UWH ... Underwater Hydraulics, LLC  
 EVS ... EV Services, Inc (M/WBE)  
 V3 ... V3 Architectural Group, Inc. (DBE)  
 # yrs ... Years of Experience  
 % ... Availability  
 ..... Key Personnel



## PROFESSIONAL ENGINEERING SERVICES

### Structural / Bridge / Misc Structures

- Sreelatha Nandivada, MS, PE  
20 yrs | 90% | HBC
- Bunrith Heng, MS, PE  
31 yrs | 90% | HBC
- Aneuris Hernandez, MS, EI  
20 yrs | 90% | HBC
- KT Lin, PhD, PE  
44 yrs | 90% | EAC
- Feng Liu, PE  
29 yrs | 85% | EAC
- Chun Li, PE  
32 yrs | 90% | EAC

### Hydraulic Structures, Design, and Modeling

- Hernan Lugo, MS, PE, CFM  
27 yrs | 90% | HBC
- Adelbert Shaffer, PE  
21 yrs | 90% | HBC
- Lawrence DeRose, PE  
40 yrs | 85% | M&N
- Jacqueline M. Brower, PhD, PE  
15 yrs | 90% | M&N

### Drainage Engineering

- Hernan Lugo, MS, PE, CFM  
27 yrs | 90% | HBC
- Gary Cox, EI  
10 yrs | 80% | HBC
- Alejandra Mendoza-Diaz, EI  
2 yrs | 80% | HBC

### Underwater Inspection Services

- Shaune Rogers  
15 yrs | 90% | UWH
- Hunter Payne  
15 yrs | 90% | UWH

### Erosion Control

- Jade D. Bennett, PE  
4 yrs | 90% | M&N

### Stream Mitigation Site Plan

- Jacqueline M. Brower, PhD, PE  
15 yrs | 90% | M&N
- Mauricio R. Gomez, EI  
7 yrs | 85% | M&N
- Julia G. Grissett, EI  
3 yrs | 90% | M&N

### Wetland, Stream & Buffer Permitting

- Jacqueline M. Brower, PhD, PE  
15 yrs | 90% | M&N
- Jade D. Bennett, PE  
4 yrs | 90% | M&N
- Julia G. Grissett, EI  
3 yrs | 90% | M&N

### Environmental Engineering

- Vanessa Benzecry, PhD, PE  
10 yrs | 90% | M&N
- Jacqueline M. Brower, PhD, PE  
15 yrs | 90% | M&N
- Julia G. Grissett, EI  
3 yrs | 90% | M&N

### Landscape Architecture

- Todd Mohler, RLA, ISA, IA  
31 yrs | 80% | KCI
- Natalia Barranco, RLA  
19 yrs | 90% | KCI

### Public Involvement

- Esther Monzon Aguirre  
33 yrs | 85% | EVS
- Melannie Gomez  
3 yrs | 90% | HBC

### Pavement Analysis & Design

- Jose A. Lopez, PE  
20 yrs | 80% | HBC
- Raj Krishnasamy, PE  
38 yrs | 85% | TSF
- Kumar Vedula, PE  
29 yrs | 90% | TSF

### Geotechnical Engineering

- Oracio Riccobono, PE  
38 yrs | 70% | GEO
- Adnan Ismail, PE  
18 yrs | 90% | GEO
- Raj Krishnasamy, PE  
38 yrs | 85% | TSF
- Kumar Vedula, PE  
29 yrs | 90% | TSF

### Permitting

- Sonny Abia, PhD, PE  
35 yrs | 80% | HBC
- Lawrence DeRose, PE  
40 yrs | 85% | M&N
- Vanessa Benzecry, PhD, PE  
10 yrs | 90% | M&N

### Utility Coordination

- Sonny Abia, PhD, PE  
35 yrs | 80% | HBC
- Leandro Vazquez  
1 yr | 90% | HBC

### Survey, Mapping, and SUE

- Frank Paruas, PSM  
26 yrs | 80% | GPI
- Julio Delgado, PSM  
7 yrs | 90% | GPI

### Right of Way Services

- Frank Paruas, PSM  
26 yrs | 80% | GPI

### Cost Estimation/ Schedule & Project Control

- Keith B. DeLuca, Jr., IMSA II  
3 yrs | 90% | HBC

### Bidding/Bid Evaluation

- Edgar Diaz, MS, PE, PSM  
33 yrs | 90% | HBC

### Plans Review

- Edgar Diaz, MS, PE, PSM  
33 yrs | 80% | HBC
- Hernan Lugo, MS, PE, CFM  
27 yrs | 90% | HBC
- Teodoro Tefel, PE  
38 yrs | 80% | HBC

### Feasibility Studies

- Edgar Diaz, MS, PE, PSM  
33 yrs | 80% | HBC

### Roadway Engineering

- Jose A. Lopez, PE  
20 yrs | 80% | HBC
- Osmin Ocon, EI  
3 yrs | 90% | HBC

### Non Destructive Testing

- Andrew Povost, AMPP SCCI,  
AWI CWI, MT, PT  
31 yrs | 80% | TER

### Nonlinear Finite Element Analysis

- Bunrith Heng, MS, PE  
31 yrs | 90% | HBC

### Staff Augmentation

- Aneuris Hernandez, MS, EI  
20 yrs | 90% | HBC
- Chun Li, PE  
32 yrs | 90% | EAC
- Feng Liu, PE  
29 yrs | 85% | EAC
- Mauricio R. Gomez, EI  
7 yrs | 85% | M&N
- Kumar Vedula, PE  
29 yrs | 90% | TSF
- Raj Krishnasamy, PE  
38 yrs | 85% | TSF

## CEI SERVICES

### Senior Project Engineer

- Christopher Soto, PE, RSO  
13 yrs | 100% | HBC

### Construction Administration

- Michael Schawe, IMSA I  
51 yrs | 100% | HBC
- Eugene Hunter, IMSA I  
35 yrs | 100% | HBC
- Rodolfo Caceres, PE, IMSA I  
21 yrs | 100% | HBC

### Contract Support Spc/ Resident Compliance Spc

- Claudia Rodriguez, PE, IMSA I  
9 yrs | 100% | HBC

### Senior Inspectors

- Scott Smith, IMSA I  
28 yrs | 100% | HBC
- Jeffrey Behari, IMSA I  
8 yrs | 100% | HBC
- Luis Membreno  
17 yrs | 100% | HBC

### Inspectors

- Francisco Rodriguez  
27 yrs | 100% | HBC
- Jay McGuinness, IMSA I  
10 yrs | 100% | HBC
- Adrian Valdes  
15 yrs | 100% | HBC
- Omar Sosa  
2 yrs | 100% | HBC

### Materials Testing

- Oracio Riccobono, PE  
38 yrs | 80% | GEO
- Adnan Ismail, PE  
18 yrs | 90% | GEO

## OTHER SERVICES

### Maintenance of Traffic

- Teodoro Tefel, PE  
38 yrs | 80% | HBC

### Signalization Engineering

- Gonzalo Barrera, PE  
7 yrs | 80% | HBC
- Joseph Maceo, EI  
7 yrs | 90% | HBC

### Signing & Pavement Marking Engineering

- Claudia Bustamante, MS, PE  
21 yrs | 80% | HBC
- Ynaja Juste, EI  
9 yrs | 90% | HBC

### Traffic Engineering

- Moatz Saad, PhD, PE, PTOE, IMSA II  
13 yrs | 80% | HBC
- Jeremy Braithwaite, IMSA II  
8 yrs | 90% | HBC
- Gabriel A. Evilla Cano, MS  
2 yrs | 90% | HBC

### Lighting/Electrical Engineering

- Orlando Penate, PE, IMSA III  
19 yrs | 80% | HBC
- Maikel Fiallo Nunez, PE  
24 yrs | 90% | HBC

### Grant Writing

- Fernando Craveiro de Sa, PhD, EI  
47 yrs | 90% | HBC

### Architectural Services

- Jose A. Vidal, AIA, LEED AP  
32 yrs | 80% | V3

### Mechanical Engineering

- Lawrence DeRose, PE  
40 yrs | 85% | M&N

# Adebayo Coker, PE

## Principal-In-Charge

Adebayo is a highly skilled transportation engineer with responsible and diversified experience in the planning, design, and construction management of major FDOT and Miami-Dade County transportation projects. His expertise includes managing all phases of roadway design, including preliminary and final design of limited/controlled access highways and freeways, signalization, signing and pavement markings, MOT, and rural/urban RRR projects, as well as CEI. He has provided technical leadership on a variety of public and private sector projects, guiding them from planning through design, construction, and post-design services. Adebayo is also responsible for coordination with clients, subconsultants, permitting agencies, and between disciplines. He implements effective QA/QC plans and supervises project personnel on complex assignments to ensure compliance, quality, and timely delivery.

**Palm Beach County (PBC), George Bush Boulevard Bridge over the Intracoastal Waterway (ICWW) Bridge Replacement.** Project Manager and Engineer of Record responsible for data collection, TMCs, O-D counts, existing conditions, microsimulation modeling, calibration, and validation. Performed demand forecasting and ESAL analysis using AADT and SERPM data. Conducted safety and crash analysis, including HSM and collision diagrams. Recommended mitigation improvements due to the George Bush Boulevard Bridge closure.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), PD&E Study at the NW 17th Avenue Bridge over the Miami River.** Project Manager and Engineer of Record for traffic data collection supporting the PD&E study for NW 17th Avenue Bridge rehabilitation. Tasks included TMCs, 72-hour classification counts, 24-hour video, peak hour drone footage during closure, pedestrian/bicyclist counts, O-D data, spot speed, and queuing data at key locations.

**Broward County, 2023 Port Everglades Master/Vision Plan Update.** Project Manager and Engineer of Record providing as-needed port master planning services for Port Everglades' 5-, 10-, and 20-year horizons. Tasks include traffic counts, parking studies, future truck traffic estimates, FDOT recommendations, parking utilization, portwide traffic and queue analysis. Future projections are based on historical volumes and regional model data.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), Construction Engineering & Inspection (CEI) Services for the South Dade Bus Maintenance Facility.** Project Manager for the South Dade Bus Maintenance Facility, featuring bus parking with overhead pantograph chargers, single-level employee/visitor parking, pedestrian bridge access, service island, wash station with water reclaim, and security checkpoints. Included charging infrastructure, stormwater, landscaping, and low-voltage systems to support sustainable, reliable transit operations.



**33** Years of Experience

### Availability

80%

### Years with HBC

19 years

### Education

B.S. in Civil Engineering,  
Florida International  
University (08/13/1992)

### Registration(s)

PE (FL) No. 55322  
(02/11/2000)

TIN No. C26001866

### Licenses & Certifications

FDOT CTQP:

Asphalt Paving  
Levels 1 and 2

QA/QC Manager

TTC Advanced No. 38977

### Expertise

Roadway design, project development and environment (PD&E) studies, construction management, signalization, signing and pavement markings, maintenance of traffic (MOT), transportation planning, safety analysis, quality assurance/quality control (QA/QC).

# Sreelatha Nandivada, MS, PE

## Project Manager

Sreelatha specializes in structural engineering, with extensive experience in bridge design, load rating analysis, and structural assessments for transportation infrastructure projects. She has worked on projects for Departments of transportation, including Florida (FDOT), contributing to the design and analysis of steel and concrete bridges, pedestrian structures, and retaining walls. Her expertise includes structural modeling, load ratings, foundation design, seismic analysis, and cold-formed steel design, utilizing advanced software such as RISA, STAAD.Pro, LEAP Bridge, and AASHTOWare BrR. Sreelatha has also been involved in substation structure design, traffic signal support evaluations, and complex industrial projects, applying AASHTO, AISC, and DOT-specific standards. Licensed in multiple states, she holds certifications in bridge safety inspection and LRFR analysis, ensuring structural integrity and regulatory compliance. Passionate about delivering resilient and innovative structural solutions, she is committed to enhancing transportation infrastructure through data-driven engineering practices.

**\*Texas Department of Transportation (TXDOT), Bridge X on I-10.** Senior Structural Engineer for the design of a 12-span precast girder bridge on I-10 at the 69 EB Overpass at 11th Street, part of the I-10 bridge cluster projects in Texas. Responsibilities included designing and modeling the bridge using PG Super software and LEAP. The bridge design featured integral end bents, nine intermediate bents with inverted T-bent caps, spans ranging from 9 to 12 precast girders, and lengths ranging from 93 ft to 113 ft.

**\*North Carolina Department of Transportation (NCDOT), BR-0073 Columbus 5 US 76 Over Gapway Swamp.** Bridge Designer and Checker for a 3-span bridge with span lengths of 40 ft, 85 ft, and 40 ft, skewed at 65 degrees. The bridge features 45" AASHTO precast concrete girders. Utilized LEAP software for both superstructure and substructure design to ensure compliance with NCDOT standards.

**\*Missouri Department of Transportation (MODOT), Route J Over Big Creek Lincoln County Br. No. A9480.** Senior Structural Engineer for the design of a 3-span bridge (80'-120'-80') utilizing NU-53 P/S Concrete NU-Girders, integral pile cap end bents with 11'-6" long turned back wings, and round concrete intermediate bents on drilled shafts and rock sockets. The bridge design also involved a roadway width of 28'-8" out-to-out. The project is 80% complete for structural design plan submission.

**\*North Carolina Department of Transportation (NCDOT), Bridge Load Ratings.** Project Engineer for performing Bridge Load Rating Analysis for municipal bridges in High Point, and for bridges in Summit County, NC, on a biannual basis. Responsibilities included conducting NCDOT load ratings for High Point municipal bridges and ratings based on Engineering Judgments for Summit County. Served as the project champion for High Point LR. The bridges ranged from concrete and steel to aluminum pipe arches. Used BrR for compatible bridges and Excel spreadsheets for rating the pipe arches.



**20** Years of Experience

### Availability

90%

### Years with HBC

<1 year

### Education

M.S. in Civil Engineering,  
University of California

B.E. in Civil Engineering,  
University of Madras,  
(2003)

### Registration(s)

PE (CT) No. PEN.0028382  
(02/01/2025)

Also PE in GA/NY/NC/SC/  
VA/TX/CA/NV/UT

### Licenses & Certifications

NHI - Safety Inspection of  
In-Service Bridges

NHI Certification for  
Fundamentals and  
Applications of LRFR for  
Bridge Superstructures

### Expertise

Structural engineering,  
seawalls, retaining walls,  
structural wall evaluats,  
coastal infrastructure,  
bridge design, load  
rating, foundations,  
miscellaneous structures

### \* Prior to HBC

# Sonny Abia, PhD, PE

## QA/QC | Utility Coordination | Permitting

Dr. Abia specializes in utility coordination, structural engineering, and quality assurance/quality control (QA/QC) for transportation and infrastructure projects. With extensive experience in roadway design, permitting, and inspections, he has managed large-scale infrastructure initiatives for FDOT and various municipalities. His expertise includes bridge design, drainage systems, construction oversight, and compliance with regulatory standards. He plays a key role in utility conflict resolution, structural assessments, and preparation of Final Utility Certification packages. Proficient in project management, permitting coordination, and field inspections, he is dedicated to delivering resilient, efficient infrastructure solutions.

**Miami-Dade County Parks, Recreation and Open Spaces (MDC-PROS), Multiple Parks 40-Year Building Recertification Inspection Services Contract.** Senior Civil/Structural Engineer and Project Manager for 40-year recertification inspections of MDC PROS buildings. Responsibilities included structural and electrical evaluations, signed and sealed reports, and detailed recommendations for repairs. Dr. Abia developed a structured approach to inspections, assessed structural conditions, and outlined long-term maintenance strategies for each facility.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NW 84th Ave Reconstruction from NW 58th St to NW 74th St Design-Build.** Utility Coordinator and QA/QC Reviewer for the NW 84th Avenue widening project, which added through lanes, a center turn lane, sidewalks, and a curved five-lane configuration. Scope included closed drainage, stormwater facility, culvert extensions, retaining wall, mast arm replacements, upgraded signals, landscape disposition plan, and new lighting. Oversaw utility conflict resolution and reviewed contaminated material removal to a Class 1 landfill.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NE 2nd Ave Reconstruction from NE 20th St to NE 36th St Design-Build.** QA/QC Reviewer and Chief Utility Coordinator for the NE 2nd Avenue design-build project from NE 20th St to NE 36th St. Scope includes roadway reconstruction, storm sewer system, sidewalks, curb and gutter, on-street parking, S&PM, signalization, decorative lighting, landscaping, and water main installation with all appurtenances. Responsible for utility coordination and ensuring quality and compliance across all disciplines.

**Florida Department of Transportation (FDOT) District 4, SR-817/University Dr Roadway Improvements from SW 24th Street/Nova Dr to EB SR-84.** Utility Coordinator and QA/QC Reviewer for roadway improvements along SR-817/University Drive from SW 24th St/Nova Dr to EB SR-84. Scope includes pavement widening for an auxiliary lane, relocation of drainage structures, overhead signs, mast arm, and utility poles. Also includes reconfiguration of bus bay and right-turn lanes at key access points. Dr. Abia ensured all design elements met standards and supported traffic flow and safety improvements.



**35** Years of Experience

### Availability

75%

### Years with HBC

6 years

### Education

PhD in Civil Engineering,  
University of Miami  
(06/25/2010)

M.S. in Civil Engineering,  
Florida International  
University (08/13/1992)

B.S. in Civil Engineering,  
Florida International  
University (08/20/1990)

### Registration(s)

PE (FL) No. 48190  
(07/15/1994)

### Licenses & Certifications

TTC Advanced Certification

Certification General  
Course in Construction  
City and Guilds of London  
Institutes

### Expertise

Utility coordination,  
structural engineering,  
QA/QC, roadway design,  
permitting, inspections,  
bridge design, drainage  
systems, project  
management, construction  
oversight.

# Michael Schawe, IMSA I

## Constructability Reviews | CEI Construction Administration

Michael is a seasoned CEI Project Manager with 24 years of FDOT experience, overseeing projects for FDOT Districts 2–6 and 8, CFX, and the City of Naples. His expertise includes roadway construction, bridges (movable, steel, concrete, segmental), drainage, utilities, railroads, and tunnels. He has extensive experience in asphalt/concrete sampling, testing, and QA. A former FDOT EIT, Michael is known for his leadership in inspection and project management.

**Florida Department of Transportation (FDOT) District 4, CEI Contract for Various Locations along Boynton Beach Boulevard.** Michael serves as Project Administrator for FDOT D4's Boynton Beach Blvd project, managing document control, progress meetings, RFIs, COs, and CEI inspection staff. The 0.659-mile project includes MOT, erosion control, concrete, asphalt, lighting, pavement markings, signalization, signing, traffic monitoring, conduit, and utility adjustments along SR 804 from NW 3rd St to US-1 in Boynton Beach, Palm Beach County.

**Florida Department of Transportation (FDOT) District 4, CEI Services for Complete Streets Improvements along Boynton Beach Boulevard between NW 3rd Street and US-1/Federal Highway LAP.** Construction Senior Project Administrator for this LAP project providing CEI services for Complete Streets improvements along Boynton Beach Blvd from NW 3rd St to US-1. Scope includes landscaping, retrofit lighting, signing and pavement markings, reconstruction, milling, resurfacing, and sidewalk/drainage upgrades. Key tasks include utility conflict resolution, communications maintenance, equipment setup, TTCs, and ITSFM record accuracy.

**\*Florida Department of Transportation (FDOT) District 4, Glades Road Grouping: Glades Road over I-95 Bridge Widening, US-1 Milling & Resurfacing, and Boynton Beach Boulevard Milling & Resurfacing.** Michael served as Project Administrator/Assistant Project Administrator/Senior Inspector for a milling and resurfacing project with signalization and landscaping. He documented quantities, entered test and daily report data into SiteManager, maintained the MOT log, and prepared weekly summaries, monthly estimates, and progress reports. He also inspected daily construction activities, performed materials testing, and monitored MOT compliance.

**\*Florida Department of Transportation (FDOT) District 4, SR-700/US-98 Milling & Resurfacing from Old Conners Road to US-441.** Project Administrator/Asst. Project Administrator/Senior Inspector for a milling and resurfacing project with signalization and landscaping. Duties included quantity documentation, test data entry, SiteManager reporting, MOT log maintenance, and preparing weekly/monthly reports. He also performed daily inspections, materials testing, and MOT reviews. This was FDOT D4's first Hot-In-Place recycled asphalt project and received two National Paving Awards.



**51** Years of Experience

**Availability**  
100%

**Years with HBC**  
4 years

**Education**  
FDOT Engineer Training Program, Broward Community College

**Registration(s)**  
TIN No. S00055556

**Licenses & Certifications**  
FDOT CTQPs:

- Final Estimate Levels I & II
- Asphalt Paving Levels I & II
- QC Manager
- Concrete Field Tech Level I

ACI Level I Field Inspector # 01210119

IMSA Traffic Signal Inspector Level I

Advanced MOT – TSSA/ IMSA

Advanced Temporary Traffic Control (TTC) Certificate # 612243

**\*Prior to HBC**

# BUNRITH HENG, MS, PE

## Structural, Bridge, Misc Structures | Nonlinear Finite Element Analysis

Bunrith was responsible for the structural analysis and performing nonlinear P-delta finite element analysis of steel structures using CSISAP2000 software. He also performed geometrically and materially nonlinear analysis of steel connections using component base finite analysis software CBFEA using IdeaStatica. he also has extensive experience in performing nonlinear analysis of soil foundation interaction. Bunrith had worked on nonlinear analysis of steel structures and soil-foundation interaction. In addition, Bunrith also has extensive experience in performing nonlinear crack section analysis of concrete slab to determine long-term deflection subject to nonlinearity such as the effect of crack concrete, shrinkage, and creep.

**\*The Jay Odom Group, Holiday Inn Express & Suites.** Senior structural engineer for structural analysis and design of a 4-stories masonry building with transferred steel girders and hollow core plank slab. The tasks included structural modeling and structural analysis of the structure in ETABS, masonry shear wall design, structural analysis and design of steel transferred beams and columns using SAP2000, concrete foundation analysis and design using CSi SAFE, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings.

**\*The Jay Odom Group: Element Hotel by Westin.** Element hotel by Westin, 5 stories with two designed options—cmu wall with post-tension slab or hollow core slab. The tasks included structural modeling and structural analysis of the structure in ETABS, masonry shear wall design, initial design of post-tension slab, structural analysis and design of steel transferred beams and columns using SAP2000, concrete foundation analysis and design using CSi SAFE, , steel connection using IdeaStatica, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings.

**\*University of Florida, Archer Place Apartment Phase 1 and 2.** Senior structural engineer for structural analysis and design of two 7 stories building with reinforced concrete and masonry walls and hollow core plank slab. Pile foundation and reinforced concrete transferred beam design, lead drafter to produce drawings.

**\*Nestor J. Ruiz, Thru by Hilton Hotel.** Senior structural engineer for structural analysis and design of a 8-stories post-tension concrete slab building with elevated car park. The tasks included performing structural analysis, building irregularity check, seismic analysis, and concrete shear walls and column design using ETABS, carried out initial post-tension design to provide data for post-tension the contractor using SAFE, punching shear and stud rail design, foundation analysis and design, steel structures and other auxiliary structures design, steel connection using IdeaStatica, sanity check of structural elements using Enercalc, Mathcad and spreadsheet, lead drafter to produce drawings.



**20** Years of Experience

**Years with HBC**  
<1 year

**Education**  
M.S. in Civil Engineering  
Science, University of New  
South Wales, (1999)

B.S. in Civil and Industrial  
Construction Eng,  
Institute of Technology  
of Cambodia, (1994)

**Registration(s)**  
PE (FL) No. 94776  
(9/8/2022)

**Licenses & Certifications**  
Autodesk Cert. Civil 3D  
Autodesk Cert. Revit

**\* Prior to HBC**

# ANEURIS HERNANDEZ, MS, EI

## Structural, Bridge, Misc Structures | Staff Augmentation



Aneuris is a seasoned structural engineer with extensive expertise in diverse sectors, including bridges, buildings, industrial projects, and civil infrastructure. His technical specialties encompass prestressed concrete bridges, precast concrete design, foundation and abutment design, and steel bridge design. He has also contributed to commercial design and forensic engineering investigations. He is proficient in advanced software, such as Civil FEM for ANSYS, Midas Gen and Civil, ETABS, SAP 2000, AutoCAD, REVIT, CSI Bridge, and RISA 3D. Aneuris brings a cutting-edge approach to engineering challenges. His innovative contributions include structural design and support for major transportation projects, ITS infrastructure, gantries, and bridge retrofits, as well as comprehensive quality control and constructability evaluations. Through his entrepreneurial ventures and technical leadership, Aneuris has fostered successful partnerships and delivered innovative solutions that enhance project efficiency and quality.

**\*Florida Department of Transportation (FDOT) District 4, Brant Drive Bridge Replacement from Oregon Lane to Avocet Road.** Participated in QC for the design of two accessible gantries on the Brant Drive Bridge Replacement project. The new bridge includes two travel lanes and shared-use paths on both sides, extending from north of Oregon Lane to south of Avocet Road. Additional improvements included ADA upgrades, drainage, pavement markings, utility coordination, survey, and geotechnical work. The bridge connects Boca Raton and Delray Beach.

**\*SR 836 / I-95 from West of I-95 to Macarthur Causeway Bridge.** Performed bridge geometry calculations for alignment, elevation, and layout. Designed bearings, pedestals, and superstructure buildups for load transfer and movement accommodation. Led pier design addressing loads, seismic demands, and durability. Designed expansion joints, developed detailed drawings, and calculated reinforcement quantities. Conducted QC/QA of structural calculations to ensure compliance with codes, accuracy, and constructability.

**\*SR 60 Over US 27 Bridge Replacement.** Designed bridge end bents and foundation piles, ensuring structural stability and geotechnical performance under design loads. Verified bridge deck design for structural adequacy, reinforcement detailing, and code compliance. Redesigned temporary sheet pile walls to meet revised construction needs, ensuring soil retention and safety during excavation and substructure activities.

**\*Central Florida Expressway Authority (CFX), SR-408 Eastbound (EB), 4th Lane Addition from OBT (US-441) to I-4.** The CFX 408-315A project extended the SR-408 EB fourth lane to I-4, eliminating weaving between OBT and the I-4 ramp. It added new ramps to and from I-4 and SR-408, improving access to Camping World Stadium. Scope included bridge modifications/widenings, new ramp bridges, braided ramp, noise and retaining walls, S&PM, ITS, lighting, and a toll facility. Six bridges were modified, widened, or newly constructed to support the improved traffic flow.

**21** Years of Experience

### Availability

90%

### Years with HBC

2 years

### Education

M.S. in Civil Engineering,  
Universidad Politecnica de  
Puerto Rico (04/23/2009)

B.S. in Civil Engineering,  
Universidad Nacional  
Pedro Henríquez Ureña  
(03/15/2004)

### Registration(s)

EI (FL) No. 1100022042  
(09/21/2018)

### \*Prior to HBC

# Hernan Lugo, MS, PE, CFM

Hydraulic Structures, Design, and Modeling |  
Drainage Engineering | Plans Review

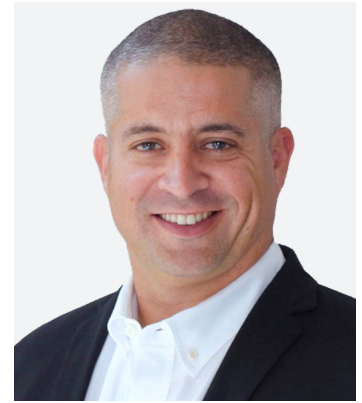
Hernan specializes in drainage design, stormwater management, roadway design, and construction administration with extensive experience on FDOT, Miami-Dade County, and other public agency projects. He leads drainage analysis, utility coordination, floodplain management, and permitting. A licensed PE in FL and TX, he is also a CFM and FL Certified Building Contractor. He focuses on resilient, compliant, and innovative solutions for roadway and drainage systems.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NW South River Drive Reconstruction from NW 38th Avenue to NW 32nd Avenue.** Roadway and Drainage Lead for a 1-mile roadway reconstruction with center turn lane, parallel parking, shared-use path, curb and gutter, drainage, S&PM, lighting, bridge replacement, permitting, and construction admin. Led drainage design, scour evaluation, and H&H analysis to compare existing/proposed conditions and meet stormwater criteria. Developed an ICPR model to ensure drainage adequacy and prevent impacts to existing facilities.

**Miami-Dade County Water and Sewer Department (MDC-WASD), Central District Wastewater Treatment Plant (CDWWTP) Oxygen Production Facility Design-Build Project.** Civil/Site Engineer of Record for the new oxygen production facility at the Central District Wastewater Treatment Plant. Led civil/site design including clearing, site layout, dimension control, pavement design, and a drainage system with swales and exfiltration trenches to manage runoff and meet water quantity/quality criteria. Coordinated design adequacy across all disciplines through all project phases.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), Design Build Services for NW 84th Avenue Reconstruction from NW 58th Street to NW 74th Street.** Drainage Engineer for the 1-mile reconstruction of a 2-lane roadway to 4 lanes with a TWLTL. Scope included a new closed drainage system, culvert replacement (CMP to RCP), stormwater facility design for added impervious area, and connection to existing outfalls. Also handled multi-agency permitting, utility coordination, adjustments, and utility designation/locates.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), Design Build Services for NE 2nd Avenue Reconstruction from NE 20th Street to NE 36th Street.** Drainage Engineer for the 1.09-mile widening of a 2-lane roadway to include bike lanes, parking, TWLTL, pavement reconstruction, storm sewer upgrades, curb and gutter repairs, and sidewalk reconstruction. Hernan developed a drainage design with storm drains, positive discharge, flood protection, and safety features for pedestrians and vehicles, aiming to minimize impacts on nearby businesses and communities.



**27** Years of  
Experience

## Availability

90%

## Years with HBC

8 years

## Education

M.S. in Environmental Engineering, Texas A&M University (12/16/2011)

B.S. in Civil Engineering, Universidad Nueva Esparta, Venezuela (05/30/1998)

## Registration(s)

PE (FL) No. 74961 (08/06/2012)

PE (TX) No. 108728 (05/25/2011)

TIN No. L20032074

## Licenses & Certifications

Florida Certified Building Contractor - No. 160661

Certified Floodplain Manager - No. US-15-08248

TTC Advanced #38971

## Expertise

Drainage design, stormwater management, roadway design, construction administration, utility coordination, floodplain management, transportation infrastructure.

# Jose A. Lopez, PE

## Pavement Analysis & Design | Roadway Engineering

Jose specializes in civil engineering with expertise in roadway design, signalization, Signing and Pavement Marking (S&PM), storm drainage, and utility relocations. He has served as Engineer of Record (EOR) on various FDOT projects, including resurfacing, safety improvements, and signal upgrades. Jose has led public and private capital improvement projects from design through implementation, ensuring compliance with quality, budget, and safety standards. His experience includes major roadway reconstruction, traffic signal optimization, and pedestrian safety enhancements for FDOT, Miami-Dade County, and Florida's Turnpike Enterprise. He is proficient in ICPR V4, FDOT Specifications Package Preparation, and Temporary Traffic Control (TTC) design. Jose is committed to delivering innovative and efficient transportation solutions that enhance mobility and safety.

**Broward County Public Works Department Highway Construction & Engineering Division, School Zone Flasher Improvements for 6 Broward County Schools.** Roadway Engineer of Record for school zone flasher improvements at six schools, including Apollo MS, Attucks MS, Everglades HS, Northeast HS, Bethune ES, and Boulevard Heights ES. Scope included records research, signalization, S&PM, utility coordination, SUE, permitting, and public notification.

**Florida Department of Transportation (FDOT) District 4, SR-7/US-441 Transit Corridor Improvements.** Roadway Engineer for improvements across 25 intersections from the Broward/Miami-Dade line to N of Sample Rd. and along SR 858. Scope included pedestrian signs, countdown signals, lighting retrofits, ADA ramps, crosswalks, a new restricted crossing, and sidewalk/bike lane work. Also included shared-use path and sidewalk upgrades on SR 7/US 441 and SR 838. Responsible for interdisciplinary coordination to enhance transit and passenger experience.

**Florida Department of Transportation (FDOT) District 6, SR-25/NW 36th St from NW 5th Avenue to North Miami Avenue Safety Project.** Roadway Engineer for safety-driven improvements to enhance conditions for motorized and non-motorized traffic. Scope included signalization upgrades, separators and medians to reduce conflict points, milling and resurfacing, TTC, S&PM, and pavement design. Signalization design featured new loops, assemblies, signal and pedestrian heads, detectors, sign panels, illuminated signs, and mast arms to improve traffic flow and safety.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), Design Build Services for NW 84th Ave Reconstruction from NW 58th Street to NW 74th Street.** Signalization Engineer of Record for signal upgrades at two intersections along NW 84th Ave under MDC-DTPW's design-build project from NW 58th St to NW 74th St. The 1-mile project widens the road to four lanes with a TWLTL. Scope included new controller cabinets, mast arms, a Signal Operating Plan (SOP) to optimize operations, and video detection systems to enhance traffic monitoring and efficiency.



**20** Years of Experience

### Availability

80%

### Years with HBC

6 years

### Education

B.S. in Civil Engineering,  
Polytechnic University of  
Puerto Rico (05/02/2005)

### Registration(s)

PE (FL) No. 81014  
(04/28/2016)

PE (PR) No. 21897  
(10/05/2007)

### Licenses & Certifications

30-HR OSHA Certification

TTC Advanced # 74153

ICPR V4 Training

FDOT Specifications  
Package Preparation

### Expertise

Signalization, storm  
drainage design, roadway  
design, utility relocations,  
temporary traffic control  
(TTC), pedestrian and  
bicycle infrastructure,  
construction engineering  
and inspection (CEI).

# Keith B. DeLuca, Jr., IMSA II

## Cost Estimation, Schedule and Project Control

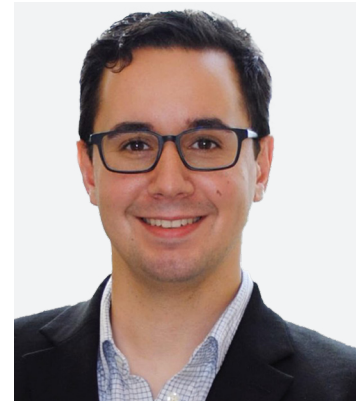
Keith is an Intelligent Transportation Systems (ITS) and Traffic Signal Engineer, with experience in inspection and contract support roles. As CEI Inspector, Keith has been responsible for inspecting the installation and maintenance of ITS equipment, ensuring compliance with project specifications, Florida Department of Transportation (FDOT) standards, and contract requirements. He has extensive experience in working with fiber optic networks, traffic signal controllers, and various detection systems, performing inspections to ensure quality and safety across multiple large-scale projects. Keith has also demonstrated strong capabilities in managing project documentation, preparing detailed reports, and ensuring contract compliance. His expertise includes coordinating with contractors, tracking work progress, managing work orders, and ensuring timely submission of deliverables. He excels in contract administration, ensuring that project milestones are met and that all work adheres to technical and contractual specifications. Keith's dual expertise in inspection and administrative contract support enables him to offer a comprehensive understanding of both field operations and project management, making him a valuable asset in delivering high-quality infrastructure projects on time and within budget.

**City of Fort Lauderdale, Las Olas Midblock Crossings Project.** As the Project Manager for a private electrical contractor, Keith was responsible for the management of all aspects of this project, including coordination with the City of Fort Lauderdale, permitting, project financials, and procurement.

**Palm Beach County (PBC), George Bush Blvd Bridge over the ICWW Bridge Replacement.** Keith supports traffic data collection for this project, including TMCs, O-D counts, existing conditions, microsimulation modeling, and calibration/validation. He conducts future demand forecasting and ESAL analysis using AADT and SERPM data. The project also involves safety and crash analysis, collision diagrams, and HSM analysis. Mitigation improvements are being recommended based on safety and operations analysis due to the George Bush Bridge closure.

**Florida Department of Transportation (FDOT) District 6, Alton Rd New Signalized Intersection Project.** As the Project Manager for a private electrical contractor, Keith was responsible for the management of all aspects of this project, including department coordination, procurement, and billing.

**Port Everglades, Port Everglades Master Plan.** Keith is serving as an Engineering Technician providing the as-needed port master planning services for preparing the Port Everglades 5-year, 10-year, and 20-year planning horizon and conducting On-Port Traffic and Parking study and Parking and Estimated Future Truck Traffic study. The tasks include Traffic Counts and Quantitative Assessment, Qualitative Assessment and FDOT Recommendations, Existing Parking Conditions, Parking Utilization, Port wide Traffic Analysis, and Port wide trucking queue analysis. Also, Future Traffic Projections are conducted using historical volume data and regional model data.



**3** Years of Experience

**Availability**  
90%

**Years with HBC**  
1 year

**Education**  
Bachelor of Science in Computer Engineering, Florida International University (12/15/2022)  
Associate of Arts, Daytona State College (08/2016)

**Registration(s)**  
TIN No. D42050297

**Licenses & Certifications**  
IMSA Traffic Signal Field Technician Level II

FDOT Temporary Traffic Control (TTC) Advanced  
ITS CEI Microwave Vehicle Detection System CBT

ITS CEI Road Weather Information System CBT

ITS CEI Closed-Circuit Television CBT

ITS CEI Dynamic Message Signs CBT

ITS CEI Managed Field Ethernet Switch CBT

**Awards**  
2022 FDOT I-4 Ultimate Coin

# Edgar Diaz, MS, PE, PSM

Bidding/Bid Evaluation | Plans Review |  
Feasibility Studies

Edgar has extensive experience working on major civil engineering projects, as well as substantial experience executing projects involving public works, transportation, and utilities. He has performed in various capacities, including task, discipline, and project management, during conceptual, preliminary, final design, and construction of sites, utilities, bridges, roadways, rails, and tunnels. Prior to joining HBC, he served as a Project Manager for Miami-Dade County and other consulting firms. He has successfully managed engineers, planners, and technicians, as part of project teams, with the purpose of developing design and construction plans/documents for utility and other types of projects

**\*Florida Department of Transportation (FDOT) District 6, PortMiami Tunnel from MacArthur Causeway to Dodge Island Public-Private Partnership (3P) Project.** Engineer of Record for design variations requiring FDOT Central Office and FHWA approval. Edgar prepared preliminary plans, geometric design, and basis-of-design documents for the project's RFP. As a Technical Expert Panel member, he joined info sessions, one-on-one meetings, proposal evaluations, and award recommendations. This \$1.2B 3P project included MacArthur Causeway widening, roadway work, twin 42' tunnels, and utility and rail relocations.

**Miami-Dade County Water and Sewer Department (MDC-WASD), Ocean Outfall Legislation Program CDWWTP Electrical Buildings 2 & 3.** Project Manager for cost estimating and scheduling for upgrades at MDC-WASD's SDWWTP, CDWWTP, and NDWWTP to meet Ocean Outfall Legislation (OOL) requirements. Edgar reviewed scope changes, estimate assumptions, exclusions, and comparisons to prior estimates. He also prepared a Preliminary Engineering Report based on the Conceptual Design Report and FDEP permitting guidelines to support compliance with OOL mandates, including discharge elimination and water reuse targets.

**\*PortMiami, PortMiami Wharf 6 & Wharf 7 Backlands.** Project Manager for design and post-design services for the PortMiami terminal redevelopment project. Scope included conceptual and pavement design to support Taylor top loaders and RTG cranes, accounting for operational and loading demands. Edgar also designed the drainage and stormwater system to meet regulatory requirements and developed utility plans to ensure uninterrupted cargo movement during all construction phases and normal operations.

**Florida Department of Transportation (FDOT) District 4, I-595 Corridor Roadway Improvements Public-Private Partnership (3P) Project.** Lead Roadway Engineer for design, analysis, and QC of 11 miles of roadway for this \$900M 3P project, including reversible/managed lanes on I-595 and 2 miles of ramp connections to SR-91/Florida's Turnpike. Edgar served as Engineer of Record for the ITS hub building and infrastructure, and led geometric design for ramps, median barrier modifications, utility relocation plans, and post-design services during construction.



**33** Years of  
Experience

## Availability

90%

## Years with HBC

19 years

## Education

M.S. in Civil Engineering,  
Florida International  
University (04/16/1999)

B.S. in Civil Engineering,  
Florida International  
University (12/19/1992)

## Registration(s)

PE (FL) No. 50728  
(08/02/1996)

PE (PR) No. 27906  
(06/27/2019)

PSM (FL) No. LS7484  
(06/02/2023)

## Expertise

Civil engineering,  
construction management,  
project controls, quality  
assurance/quality control  
(QA/QC), water and  
wastewater infrastructure,  
roadway design,  
signalization, maintenance  
of traffic (MOT),  
environmental compliance.

## \*Prior to HBC

# Teodoro Tefel, PE

## Plans Review | Maintenance of Traffic

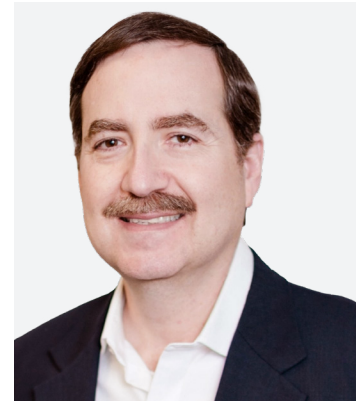
Teodoro has extensive experience working on various civil engineering projects involving roadway design. He has served the roles of Support Engineer, Project Engineer, Senior Roadway Engineer, and Engineer of Record (EOR) successfully and has been responsible for management and plans review. He has also served as in-house consultant for the review of design variations and exceptions for the Florida Department of Transportation (FDOT) District 6 Design Office. In addition, Teodoro also has significant experience in the design of Signing and Pavement Marking (S&PM) plans, Maintenance of Traffic (MOT) plans, Traffic Control Plans (TCPs), and Temporary Traffic Control Plans (TTCPs).

**Florida Department of Transportation (FDOT) District 6, Districtwide Resurfacing Scoping Reports.** Teodoro is serving the role of Engineer of Record (EOR) and is responsible for preparing districtwide resurfacing scoping reports, by analyzing the existing conditions, to determine deficiencies and establish or substantiate the project purpose and need. He is also developing project alternatives to satisfy the identified deficiencies or needs within the corridor. The evaluation of 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, conceptual roadway plans, approved typical section package, and variances and exceptions sections.

**Florida Department of Transportation (FDOT) District 1, SR-29 Milling and Resurfacing from North of Wagon Wheel Rd to South of I-75.** Teodoro is serving the role of Support Engineer for Milling and Resurfacing (M&R) and Signing and Pavement Markings (S&PMs) on SR-29 from north of Wagon Wheel Road to south of I-75.

**Palm Beach County (PBC), Boca Rio Rd Widening from Palmetto Park Rd to Glades Rd.** Teodoro is serving the role of Support Engineer for the reconstruction and widening of Boca Rio Road from Palmetto Park Road to Glades Road in Palm Beach County, Florida.

**Miami-Dade County Water and Sewer Department (MDC-WASD), Maintenance of Traffic (MOT) Control Plans for New 16" Diameter Water Main along NW 37th Ave between NW 36th St and NW 82nd St.** Teodoro served the role of Project Engineer responsible for designing a Temporary Traffic Control Plan (TTCP) for the installation of 14,400 LF of a 16" diameter water main along NW 37th Avenue from NW 36th Street/SR-948 to NW 82nd Street (Miami-Amtrak Station). This project was accomplished by using tables to reference applicable details and indexes for such locations. This included lane closure analysis, summary of quantities, and precise TTCP phases and plans, to safely facilitate the routing of traffic through work zones. Teodoro coordinated with Miami-Dade County (MDC) Water and Sewer Department (WASD), FDOT District 6, and stakeholders, as necessary, to ensure feedback and approval of the proposed TTCP design.



**38** Years of Experience

### Availability

80%

### Years with HBC

5 years

### Education

B.S. in Civil Engineering,  
Florida International  
University (12/12/1987)

### Registration(s)

PE (FL) No. 50106  
(02/15/1996)

### Certifications

Advanced MOT

### Expertise

Roadway design,  
maintenance of traffic  
(MOT), traffic control  
plans (TCPs), signing and  
pavement marking (S&PM),  
highway reconstruction,  
milling and resurfacing,  
interchange design,  
roadway widening,  
drainage analysis, project  
management.

# Christopher Soto, PE, RSO

## CEI Senior Project Engineer

Christopher is a Senior Project Engineer with extensive CEI experience in roadway, bridge, and utility projects. He has managed inspection teams, MOT compliance, permitting, shop drawing reviews, as-built plans, cost estimates, punch-lists, and SWPPPs. He has supported DOTs, municipalities, and agencies across FL, MN, IA, and WI. His work spans signalization, land development, pipelines, drainage, and stormwater, with expertise in LAP and FDEP-funded projects, including AWS & FRCP grants.

**Miami-Dade County Water and Sewer Department (MDC-WASD), William Lehman Causeway Force Main Phase II.** Senior Project Engineer for the installation of 6,060 LF of 24", 20", 16", 12", and 8" sanitary force mains along William Lehman Causeway and Yacht Club Way. Christopher oversees daily construction, manages inspection staff, reviews RFIs, shop drawings, and pay apps, and leads meetings. He maintains records, ensures compliance with MOT and SWPPP, and coordinates design changes to add system redundancy, creating a backup system for the City of Aventura.

**Miami-Dade County Water and Sewer Department (MDC-WASD), 16" Diameter Sanitary Force Main Along W, N, & E Country Club Drive from William Lehman Causeway to Yacht Club Way.** Senior Project Engineer for the installation of 11,000+ LF of sanitary sewer force mains (4"–20") along Country Club Drive from William Lehman Causeway to Yacht Club Way. Christopher manages inspection staff, oversees daily construction, ensures compliance with MDC-WASD standards, reviews RFIs, shop drawings, and pay apps, leads meetings, maintains records, and coordinates design modifications to add system redundancy, creating a backup system for the City of Aventura.

**Palm Beach County (PBC), CEI Services for the Seminole Blvd Multi-Use Trail and Pedestrian Lighting LAP Project.** Senior Project Engineer for a corridor improvement project including designer lighting poles, widening sidewalks from 6' to 12' for pedestrians and bicyclists, and drainage upgrades with 30" and 18" French drains and manholes. Scope also included milling, resurfacing, steel guide rails, and ADA-compliant detectable surfaces. Chris ensured compliance with FDOT and ADA standards, provided daily reports, photo documentation, and monitored MOT and SWPPP, while leading biweekly meetings.

**\*City of Doral, Federally Funded Citywide Pedestrian, Drainage, & Roadway Improvements LAP Project.** Senior Project Engineer for this LAP-funded project across multiple Doral locations, involving sidewalks, driveways, curb and gutter, storm sewer work, French drains, pavement and sod restoration, and markings. Christopher led bi-weekly meetings, managed invoices, supported funding reimbursement, secured permits, oversaw daily inspections, and handled project closeout documentation. A CSS ensured accurate GAP data entry and organized records for timely federal fund reimbursement.



**13** Years of Experience

### Availability

100%

### Years with HBC

1 year

### Education

B.S. in Civil Engineering,  
Florida International  
University (08/03/2015)

### Registration(s)

PE (FL) No. 91722  
(06/22/2021)

TIN No. S30010689

### Licenses & Certifications

ADA Training Certified

FDOT Advanced MOT

FDOT CTQPs:

- Asphalt Paving Levels I & II
- Earthwork Construction Inspection Levels I & II
- Final Estimates Levels I & II
- Drilled Shaft Level I
- Radiation Safety Officer (RSO)
- Nuclear Gauge Safety/Hazmat Radioactive Safety Officer ADA Construction

**\*Prior to HBC**

# Claudia Rodriguez, PE, IMSA I

## CEI Contract Support Specialist / Resident Compliance Specialist

Claudia is a seasoned Construction Project Manager with expertise in CEI and compliance on state and federally funded projects. She has extensive experience managing ITS projects, from plans review and construction to testing and final acceptance, ensuring adherence to NEC, CPAM, and FDOT standards. Her portfolio includes milling, resurfacing, utility relocations, drainage, sidewalks, and landscaping. Claudia handles RFIs, RFPs, change orders, schedule updates, and estimates. She excels in managing ITS installations—such as CCTV cameras and DMS—across Florida highways, and is skilled in contract negotiations, monthly estimates, and compliance reviews, ensuring technical and regulatory standards are met.

**Florida’s Turnpike Enterprise (FTE), System-Wide Queue Warning on SR-91 and SR-429.** Claudia serves as CSS/Assistant Project Administrator/Senior ITS Inspector for this CEI project, ensuring compliance with FDOT guidelines, plans, and specs. The project includes installing Queue Warning Systems, CCTV cameras, MVDSs, DMSs, FOC, WWVDSs, and other ITS devices along SR-821 (HEFT), SR-91 (Turnpike Mainline), and SR-429 (Western Beltway). She supports ITS inspections and construction oversight throughout the corridor.

**Florida’s Turnpike Enterprise (FTE), CEI Services for DMS Upgrade and Retrofit on SR-589 (2-8.4).** Claudia serves as Assistant Project Administrator/ITS Inspector for this CEI project, ensuring construction meets FDOT guidelines, plans, and specifications. The project includes ITS inspections and the replacement of front access and walk-in DMSs with associated infrastructure along SR-589/Veterans Expressway from MP 2 to MP 8.4.

**Florida’s Turnpike Enterprise (FTE), CEI Services for DMS Upgrade and Retrofit on SR-91 (135-307) & SR-429 (2.6-9.8).** Claudia serves as Assistant Project Administrator/ITS Inspector for this CEI project, ensuring compliance with FDOT guidelines, plans, and specs. The project includes ITS inspections and the replacement of walk-in DMSs and associated infrastructure along SR-91/Florida’s Turnpike Mainline (MP 135–307) and SR-429/Daniel Webster Western Beltway (MP 2.6–9.8).

**\*Florida’s Turnpike Enterprise (FTE), SR-821/Homestead Extension of Florida’s Turnpike (HEFT) Widening from SR-836/Dolphin Expressway to NW106th St.** ITS Construction Project Manager, Traffic Signal Contractor, and Lighting Contractor for installation of electrical/electronic systems for 5 ORT buildings, including lightning protection, backup generators, and fuel tanks. Scope also included installation, testing, and integration of 12 CCTV cameras, 3 DMSs, 38 MVDSs, 44 concrete poles, over 19 miles of FOC network, and 12 electrical service points.



**9** Years of Experience

### Availability

100%

### Years with HBC

3 years

### Education

Electrical Engineering  
CUJAE, Polytechnical  
University of Havana  
(07/14/2016)

### Registration(s)

PE (FL) No. 98867  
(05/14/2024)

TIN No. R36210493

### Licenses & Certifications

FDOT CTQPs:

- Final Estimates Levels 1 and 2
- FDOT Advanced MOT
- Earthwork Construction Inspection Level 1

IMSA Traffic Signal I

IMSA/FOA Certified Fiber Optic Technician

ITS CEI Microwave Vehicle Detection System CBT

ITS CEI Road Weather Information System CBT

ITS CEI Closed-Circuit Television CBT

**\*Prior to HBC**

# Gonzalo Barerra, PE

## Signalization Engineering

Gonzalo graduated from Florida International University in 2018 with a Bachelor of Science in Civil Engineering. Shortly after, he joined HBC Engineering Company as an Engineer Intern (EI). In 2022, he passed his Professional Engineer (PE) exam and is currently registered as a PE in the State of Florida. He has worked on various aspects of transportation engineering, including roadway design, signing and pavement marking, signalization, drainage design, Temporary Traffic Control (TTC), and 3D roadway modeling, while complying with local, state, and federal guidelines and standards. He is proficient in AutoCAD and MicroStation CAD software, CAD certified in AutoCAD and 3D modeling, and certified in Bentley MicroStation and OpenRoads Designer.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), NE 2nd Ave Reconstruction from NE 20th St to NE 36th St Design-Build.** Project Engineer for signalization design at 3 intersections (NE 20th, 21st, 29th), 2 midblock crossings (NE 23rd, 25th), and a pedestrian signal at NE 36th. Scope included mast arm replacements, upgraded power disconnects, new signal cabinets, and conflict avoidance with existing utilities. Gonzalo also served as Deputy PM for roadway design, including horizontal/vertical alignments, side street connections, and Temporary Traffic Control Plans (TTCs).

**Florida Department of Transportation (FDOT) District 4, SR-817/ University Drive Widening & Signalization Improvements.** Project Engineer responsible for the design of signalization improvements, which included the replacement of a mast arm, due to the roadway widening, and new lane configurations, as well as the placement of new pedestrian countdown signals, per MUTCD, at the proposed pedestrian crossing locations.

**Florida Department of Transportation (FDOT) District 6, SR-5/US-1/ South Dixie Hwy at Caribbean Blvd.** Gonzalo led the design of safety improvements at the intersection, including replacement of 2 mast arms along SR-5/US-1. Mast arms were placed to keep the existing system operational and minimize utility conflicts. Scope included design of 2 advanced intersection control signs, 1 street name sign, and analysis of the signal cabinet and service point. The cabinet met standards, but the service disconnect was replaced due to substandard condition, poor location, and missing meter can.

**Florida Department of Transportation (FDOT) District 4, SR-7/US-441 Transit Corridor Improvements - Task Order 2.** Project Engineer for sidewalk and shared-use path design to improve pedestrian connectivity between three intersections, including a signalized crossing. Designed three paths: a 1-mile connection to an existing path, a serpentine path under the I-595 off-ramp to Riverland Woods Park, and a 1.5-mile path from SR-7/US-441 to NW 34th & NW 31st Avenues with a midblock crossing. Scope includes ADA ramp upgrades, pedestrian signal improvements, and 3D modeling for cut/fill analysis.



**7** Years of Experience

### Availability

80%

### Years with HBC

6 years

### Education

B.S. in Civil Engineering,  
Florida International  
University (04/28/2018)

### Registration(s)

PE (FL) No. 94260  
(06/21/2022)

### Licenses & Certifications

TTC Advanced, #44555

### Expertise

Signalization, roadway design, signing and pavement marking, 3D modeling, drainage design, temporary traffic control (TTC), transportation safety improvements.

# Claudia Bustamante, MS, PE

## Signing & Pavement Marking (S&PM) Engineering

Claudia specializes in transportation engineering and planning, including roadway design, S&PM, channelization, signalization, TTC, and PD&E studies. She has worked with FDOT Districts 4 & 5, municipalities, and the private sector. With 20+ transportation publications, she is active in ASCE, ITE, WTS, and TRB committees. As Project Manager, she has led efforts in geometric design, 3D modeling, plans production and review, pavement design, and TTCPs.

**Miami-Dade County Department of Transportation & Public Works (MDC-DTPW), Design-Build Services for Roadway Signs in the Vicinity of Metrorail Stations.** S&PM Engineer for MDC-DTPW's Design-Build project installing roadway signs near Metrorail stations across Miami-Dade County. Responsibilities include designing regulatory and directional signs, pavement marking layouts, and Temporary Traffic Control Plans (TTCPs) to ensure safe implementation. All work complies with MDC-DTPW and FDOT standards to enhance wayfinding, visibility, and roadway operations.

**Miami-Dade County Department of Transportation & Public Works (MDC-DTPW), NE 2nd Avenue Reconstruction from NE 20th Street to NE 36th Street Design-Build.** S&PM Engineer for MDC-DTPW's NE 2nd Ave Design-Build project from NE 20th St to NE 36th St. The 1.09-mile reconstruction adds a TWLTL and 6-ft buffered bike lanes in both directions to improve multimodal safety. Responsibilities include designing regulatory, warning, and guide signs, pavement marking layouts for lanes and bike facilities, and ensuring compliance with MDC-DTPW and FDOT standards to enhance roadway operations.

**Miami-Dade County Department of Transportation & Public Works (MDC-DTPW), NW 84th Avenue Reconstruction from NW 58th Street to NW 74th Street Design-Build.** S&PM Engineer for MDC-DTPW's NW 84th Ave Design-Build project from NW 58th St to NW 74th St. This 1-mile reconstruction widens the roadway to four lanes with a TWLTL, improving traffic flow and capacity. Responsibilities include designing regulatory, warning, and guide signs, pavement marking layouts for lane assignments and multimodal facilities, and ensuring compliance with MDC-DTPW and FDOT standards to enhance safety and efficiency.

**Broward County Public Works Department, School Zone Flasher Improvements Project (Elementary Schools).** Project Manager and Engineer of Record for school zone flasher improvements at Broward Estates and Oakridge Elementary Schools. The project aimed to reduce vehicle speeds, enforce school zone limits, and improve pedestrian safety. Scope included records research, signalization, S&PM, utility coordination, SUE, permitting, and public notification. Claudia oversaw all aspects of the design improvements.



**21** Years of Experience

**Availability**  
80%

**Years with HBC**  
5 years

**Education**  
M.S. in Civil Engineering,  
University of Central  
Florida (2017)

B.S. in Civil Engineering,  
Universidad Del Cauca  
Colombia (06/11/2004)

**Registration(s)**  
PE (FL) No. 87381  
(06/01/2019)

**Licenses & Certifications**  
Advanced MOT - # 32203  
DOT & LTAP Specifications  
Package  
GeoPAK  
MicroStation  
Autoturn  
CADD  
3D Modeling

**Awards and Recognitions**  
2024 ASCE  
Engineer of the Year

**Expertise**  
Transportation engineering,  
roadway design, signing  
and pavement marking,  
signalization, temporary  
traffic control (TTC).

# Moatz Saad, PhD, PE, PTOE, IMSA II

## Traffic Engineering

Dr. Saad's areas of expertise are Transportation Engineering, Traffic Safety, Traffic Simulation, and Connected and Autonomous Vehicles. He has worked on numerous projects throughout South Florida involving Transportation Management Plans, Microscopic and Macroscopic Traffic Simulations, Dynamic Traffic Assignments, and Smart Work Zones. He has performed traffic impact analyses, safety reviews, and fatality studies successfully. He is highly experienced in implementing statistical models and data mining techniques for analyzing safety and operational performance measures. He also works on analyzing Big Data, such as MVDS, AVI, and Crowdsourced Smartphone Data for traffic safety projects.

**Florida Department of Transportation (FDOT) District 6, Okeechobee Road Traffic Analysis.** Moatz is Project Manager for a traffic analysis project focused on future weaving conditions from the planned Okeechobee Road reconstruction. The effort includes collecting 24-hour volumes, classification counts, turning movements, O-D data, travel time/speed, and queuing data at 13 locations between SR-826 and NW 87th Ave. Microsimulation is being performed for existing, no-build, and build conditions using the data for calibration, forecasting, and network inputs.

**Greater Miami Expressway Agency (GMX), SR-924/Gratigny Parkway Traffic Operations Study.** Moatz is Project Manager for the SR-924/Gratigny Parkway traffic operations study from west of NW 36th Ave to east of NW 32nd Ave. A spot speed study assessed speed compliance after freeway exits. Capacity analysis evaluated signal phasing, timings, protected-only left-turns, and queue storage using forecasted data. Crash analysis and mitigation measures were conducted for the median opening at NW 36th Ave.

**Florida Department of Transportation (FDOT) District 6, SR-9/NW 27th Ave Traffic Analysis from NW 7th St to NW 36th St.** Moatz is Project Manager for evaluating the impact of omitting permissive left-turns at 8 signalized intersections, including a drawbridge over the Miami River. He oversees TMCs, travel time, queuing, signal timing, and bridge operations data. Responsibilities include traffic forecasting using historical data and SERPM, VISSIM microsimulation for existing and future AM/PM peak conditions, crash analysis, and safety evaluations with recommended improvements.

**Miami-Dade County, Venetian Causeway from Bayshore Drive to Purdy Avenue Speed Study.** Moatz served as Project Manager for this effort, which involved speed data collection and analysis efforts as well as safety analysis activities for this project in which HBC conducted traffic engineering services regarding a speed study along the Venetian Causeway Bridges from Bayshore Drive to Purdy Avenue. The required services included data collection, spot speed studies, safety analysis, and recommendations for design, posted, and target speeds.



**13** Years of  
Experience

### Availability

80%

### Years with HBC

6 years

### Education

PhD in Civil Engineering,  
University of Central  
Florida (08/03/2019)

M.S. in Transportation  
Engineering, University of  
Central Florida (12/16/2016)

B.S. in Civil Engineering,  
Alexandria University  
(08/01/2012)

### Registration(s)

PE (NC) No. 056192  
(05/04/2023)

PTOE No. 5763  
(07/09/2024)

TIN No. S30054591

### Licenses & Certifications

SAS Data Mining Certificate

FSUTMS Modeling  
Certificate

FDOT TTC Advanced  
Certificate - # 632512

IMSA Traffic Signal  
Technician Level I - #  
AA\_133439

IMSA Traffic Signal Field  
Tech Level II - # BE\_133439

# Orlando Penate, PE, IMSA III

## Lighting/Electrical Engineering

A highly experienced Electrical Professional Engineer, he boasts a robust background in the civil engineering industry and a comprehensive skill set, including proficiency in AutoCAD, Bentley MicroStation, OpenRoad Designer, and AGI-32 Lighting Analysts. Throughout his career, he has served as the Engineer of Record for multiple lighting and electrical projects across South Florida. His responsibilities encompass the production and management of all phases of design, ensuring that each project meets stringent standards of quality and efficiency. His extensive experience and technical expertise have established him as a reliable professional in the industry, consistently delivering exceptional results and driving project success.

**Miami-Dade County Water and Sewer Department (MDC-WASD), Initial Engineering Services During Construction for the Central District Wastewater Treatment Plant Electrical Building #2.** Electrical Engineer for this project, supporting MDC-WASD and the OOL Program Construction Manager during construction. Franklin conducts site visits, attends progress meetings, performs field observations, reviews RFIs and submittals, and provides field witness testing to ensure construction aligns with project requirements.

**Miami-Dade County Parks, Recreation and Open Spaces (MDC-PROS), Multiple Parks 40-Year Building Recertification Inspection Services Contract.** Senior Electrical Engineer for MDC-PROS 40-year recertifications under the EDP. Responsible for electrical inspections and signed/sealed reports per MDC-RER guidelines for buildings across multiple parks, including Crandon Park, Country Club of Miami, and A.D. Barnes Park. Work is delivered through TWOs to ensure safety compliance.

**Miami-Dade County Department of Transportation and Public Works (MDC-DTPW), SW 344th St Park and Ride Expansion.** Electrical Advisor and Senior Electrical Engineer overseeing QA/QC for this critical 61,000-sf expansion. Orlando's responsibilities include developing engineering plans for lighting and EV charging stations to support MDC's sustainable transportation initiatives. He ensures the replacement of all parking lot and bus layover light poles, optimizing illumination and safety. His work includes designing DC fast-charging infrastructure with two overhead pantograph systems for MDC's electric buses. Orlando also collaborates with local utilities, ensures seamless system integration, and maintains compliance with MDC Building Department regulations, contributing significantly to this key infrastructure project's success.

**Miami-Dade County (MDC) Water and Sewer Department (WASD), Report of Capital Repair Plans for 82 WASD-Owned Buildings.** Senior Electrical Engineer responsible for the electrical assessment, written report, and cost estimate for the MDC-WASD's capital repair and maintenance plans for 82 MDC-WASD-owned buildings that are 35 years or older.



**19** Years of Experience

### Availability

80%

### Years with HBC

8 years

### Education

B.S. in Electrical Engineering, Marta Abreu de Las Villas University (07/14/2006)

### Registration(s)

PE (FL) No. 80385 (01/01/2016)

### Licenses & Certifications

FLUG Open Road Designer

FDOT Specifications Package Preparations

Bullet Proof Manager Program

FDOT Advanced TTC, #631090

IMSA Traffic Signal Field Technician Level 3, #CE\_131518

Certified Infrared Thermographer Level II No. 17022

Advanced Building Code Course Credit

7th Edition, Florida Building Code

# Fernando Craveiro de Sa, PhD, EI

## Grant Writing

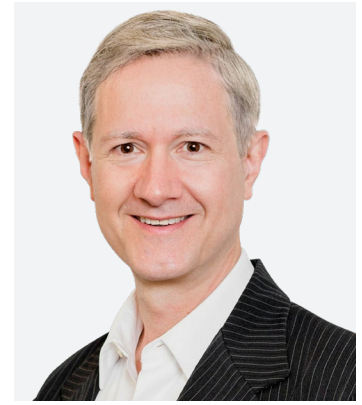
Dr. Craveiro has extensive experience in civil engineering, client service management, constructability review, area management, and business development. He has worked on large infrastructure projects involving various disciplines, such as transportation, traffic, water, wastewater, coastal, ports, and marine. His typical client interface is with agencies, including Miami-Dade County (MDC) Water and Sewer Department (WASD) and South Florida Water Management District (SFWMD), as well as companies like Vale and Petrobras. From a technical standpoint, he has been involved in a wide variety of complex and high-profile infrastructure projects. He has performed various technical roles successfully, including those dealing with planning, conceptual design, and evaluation of existing systems.

**Broward County, Septic Tank Elimination Program (STEP).** Quality Assurance/Quality Control (QA/QC) Reviewer for this project, which included the evaluation and selection of 3 alternative sewer systems to serve the business properties located within a marina in Broward County. Other services included site evaluation, site investigations, coordination with municipalities and property owners, hydraulic analysis, lift station design, and preparation of the inventory of existing and proposed utility easements.

**\*Miami-Dade County Water and Sewer Department (MDC-WASD), South District Wastewater Treatment Plant (SDWWTP) Renewal and Replacement Project.** Client Service Manager responsible for quality control and allocation of appropriate technical resources. He also served as Senior Technical Consultant on several issues, including large sewage pumps, screening and grit removal and disposal system, primary clarification and scum handling, sludge thickening, co-generation, pure oxygen biological secondary system, high-level disinfection, effluent filtration, wastewater reuse, deep well injection, and operator training.

**Miami-Dade County Water and Sewer Department (MDC-WASD), CD 2.27: Central District Wastewater Treatment Plant (CDWWTP) New Oxygen Plant Design-Build Project.** Quality Assurance/Quality Control (QA/QC) Reviewer for this project, which involved the construction of an oxygen production system (2-VPSA) at the CDWWTP to provide full redundancy, as the existing units were near the end of their useful service life and prone to failure.

**\*Miami-Dade County Water and Sewer Department (MDC-WASD), Master Plan Update.** Client Service Manager responsible for his portion (30%) of the contract's performance and technical resources. He also served as Senior Technical Consultant and expert in water reuse and the mitigation of Emerging Pollutants of Concern. The engineering services were mostly related to Sustainability and Resiliency, given the strong considerations to wastewater reuse. The team was successful in obtaining MDC-WASD's 20-year Water Use Permit, which is valid for 20 years and allows MDC to manage its water resources and the treatment and reuse of its wastewater.



**47** Years of Experience

### Availability

90%

### Years with HBC

7 years

### Education

PhD in Civil Engineering/  
Environmental, University  
of Texas at Austin  
(5/18/1991)

M.S. in Civil Engineering/  
Environmental, University  
of Texas at Austin  
(5/18/1985)

M.S. in Environmental and  
Sanitation Engineering, IHE  
Delft, Holland (9-11-1982)

Industrial Environmental  
Engineering, Fundação  
Armando Alvarez Penteado,  
Brazil (1980)

B.S. in Civil Engineering,  
Universidade de São Paulo,  
Brazil (11/9/1979)

### Licenses & Certifications

Engineer Intern (TX)  
(01/02/1991)

Executive Leadership,  
Michigan University  
(2001)

# Dinesh Dagly, PE

QA/QC Reviewer

**Availability**

75%

## 51 Years of Experience

### Education

1968 MS Civil Engineering  
Wayne State University  
1966 Bachelor of Science in  
Civil Engineering  
Sardar Patel University, India

### Licenses

Registered Professional  
Engineer: Florida (No. 29386)

### Memberships

American Society of Civil  
Engineers- Life Member

## Summary

Mr. Dagly has over 51 years of experience in structural design related to highway bridges, as well as elevated and underground mass transit structures. He has many years of experience working in FDOT projects involving preparation of specifications package, post design services including construction support, PD&E Studies and others. Mr. Dagly's bridge design experience includes different types of bridges such as segmental, concrete and steel.

### **MDX 836-11, Design-Build SR-836, I-395 and I-95 Southbound to SR 836 Westbound, FDOT Contract # E-6J53**

*CLIENT Miami-Dade Expressway Authority (MDX) | ROLE Senior Structural Engineer*

This major project Consists of 19 bridges, new and widening, that includes proposed Viaduct over 100 feet high above the Miami River and integration of SR -836 to existing Interchange I - 95 and I 395. For this ongoing Project, Mr. Dagly is responsible for review of Design submittals, at 90 %, 100 % and Final for the MDX portion of SR -836. Mr. Dagly will also review post Design service including shop drawings, construction related field issue & RFI etc. Estimated cost; \$ 200 million, Length of Corridor: 1.37 miles lower and upper level each.

### **Design Build of Hard Rock Stadium Renovation Pedestrian Bridges and Ramp MSE walls**

*CLIENT City of Miami Gardens | ROLE Senior Structural Engineer*

As part of the Design Team, Mr. Dagly prepared lay out of Pedestrian Bridges and Ramps MSE wall over NW 199th Street as well as over Florida turnpike Access Road. These pedestrian bridges will eliminate traffic congestions and provide easy access to Hard Rock Stadium and will be ready before 2020 Super bowl which will be held in this stadium. Construction cost: 15 million.

### **Design-Build SR836 Operational, Capacity and Interchange Improvements from West of NW 57th Ave to 17th Ave.**

*CLIENT Miami-Dade Expressway Authority (MDX) | ROLE Senior Engineer*

This major project construction cost was over \$ 150 million consisted of over 30 bridges, new and widenings at 9 intersection Roads and Canal crossings. As Senior Engineer was responsible of structural plan review at various stages including Alternate Technical concept (ATC), Technical Proposal plan, and submittal levels at 60 %, 90 % 100 % and Final for the Entire project. Post design services, including, final review of shop drawings, construction related field issues and RFI was be reviewed for the entire project. Project Cost: 59 million

### **I-95 and Spanish River Boulevard Interchange, Palm Beach County, FL**

*CLIENT FDOT District 4 | ROLE Senior Engineer*

Senior Engineer responsible for plans preparation for a three (3) level Interchange at Spanish River Blvd. & I-95 in Boca Raton, Fl. This project included the construction of a new interchange, modification of the existing Yamato Road and I-95 interchange, addition of auxiliary lanes from Glades Road to Congress Avenue on I-95 and cross street improvements on Spanish River and Yamato Road. This third level interchange included coordination with Federal Aviation Administration (FAA), Boca Airport, City of Boca Raton, and Florida Atlantic University (FAU).

This improvement provides connectivity between FAU, Tri-Rail, and I-95 and relieves daily congestion as well as event traffic generated during events held at the FAU stadium.

# KT Lin, PhD, PE

Structural / Bridge / Miscellaneous Structures

**Availability**

90%

## 44 Years of Experience

### Education

1987 PhD in Civil Engineering,  
University of Miami

1984 Master of Science in Civil  
Engineering, University of  
Miami

1980 Bachelor of Science in  
Civil Engineering, National  
Taiwan University

### Licenses

Professional Engineer:  
Florida – #41081  
Professional Engineer:  
California – #49346

## Summary

Mr. Lin has over 44 years of experience in Bridge Structural Analysis and Design. His expertise includes structural analysis and design for a wide variety of bridge structures, including concrete and steel grade separation structures, water crossing and viaduct structures, and segmental concrete bridges. He is familiar with the AASHTO, ACI, and AISC design codes, and local and state criteria.

### Port of Miami North Cruise Blvd. Extension Phase III

*CLIENT PortMiami | ROLE Structural Engineer of Record*

Engineer of Record for structural design of a two span continuous curved steel plate girder bridge with a skew angle of approximately 40 degrees. Weathering steel Grade 70W is utilized for the girders, which will be painted due to aggressive coastal conditions. To achieve cost saving and minimize impact to existing cruise terminals, augercast piles are proposed using FDOT developmental specifications. Due to complexity of the bridge, refined structural methodology using grid analysis was performed.

### District-Wide Structures Design and Plans Review

*CLIENT FDOT District 6 | ROLE Project Manager*

Project Manager for plans and shop drawings review, as well as structural design and plan preparation for bridges and highway related structures.

### Golden Glades Interchange, Segment 4, Bridge 4

*CLIENT FDOT District 6 | ROLE Lead Structural Engineer*

Lead Structural Engineer for the design of a steel girder bridge, consisting of 2 units of continuous steel plate girders supported on piers with drilled shaft foundation. The bridge is highly skewed and slightly curved. Refined analysis using MIDAS software has been performed for the bridge design.

### District-Wide Load Rating of Bridge Structures

*CLIENT FDOT District 6 | ROLE Project Manager*

Project Manager for a district-wide load rating, including EV load rating, of a wide range of existing concrete and steel bridge structures. Both approximate analysis method using AASHTO formula and refined structural analysis were performed.

### General Engineering Consultant Plans Review

*CLIENT Greater Miami Expressway Agency | ROLE Structural Task Manager*

Structural Task Manager for plans review and technical support for the construction of GMX's 5 year \$500m+ work program. Technical responsibilities included plan and design review of the SR 826/SR 836 Interchange Design-Build project comprising 50 plus bridges consisting of 4 segmental concrete box bridges, a number of steel plate girder bridges, and numerous FIB bridges. Review of the segmental bridges included shop drawings, erection manuals and analysis, and construction issues



**ORACIO RICCOBONO, P.E.**  
**Chief Geotechnical Engineer**  
 5795-A NW 151<sup>st</sup> St. Miami Lakes, FL  
**Phone: 305. 828-4367; Fax: 305. 828-4235**

**PROFESSIONAL REGISTRATION:**

Florida P.E. # 49324

**Availability = 70%**

**EDUCATION:**

1999 to 2000: Master in Business Administration, Florida International University  
 1985 to 1987: Master of Science in Civil Engineering, Geotechnical Specialization, Louisiana State University  
 1982 to 1985: Bachelor of Science in Civil Engineering, Louisiana State University

**RECENT EXPERIENCE:**

Mr. Riccobono has over **38 years of experience** in geotechnical engineering for numerous transportation projects including roadways, highways, railroads, marine, underground, and airport facilities. Experience includes interpretation of subsurface conditions, planning and execution of laboratory testing programs, geotechnical analysis and design of foundation elements of structures, management of geotechnical projects and preparation of numerous geotechnical reports providing conclusions and recommendations for numerous FDOT projects for Districts 1, 4, 5, 6, 7 and Turnpike as well as MDX as listed below.

**EMPLOYMENT HISTORY**

- January 1986 to December 1987, Research Engineer Assistant, Louisiana Transportation Research Center
- January 1988 to March 1989, Staff Geotechnical Engineer, Converse Consultant East, Caldwell NJ
- March 1989 to August 1993, Project Geotechnical Engineer, Parsons Brinckerhoff Quade & Douglas, NY
- August 1993 to January 1994, Project Geotechnical Engineer, Law Engineering, Inc., Miami, FL
- January 1994 to January 1996, Geotechnical Engineer, Florida Testing & Engineering, Ft. Lauderdale, FL
- January 1996 to February 1998, Project to Senior Geotechnical Engineer, PSI, Inc., Miami, FL
- February 1998 to August 2000, Regional Geotechnical Engineer and Department Manager, PSI, Miami, FL
- August 2000 to Present, Chief Geotechnical Engineer and President, Geosol, Inc., Miami, FL

**SUMMARY OF CAPABILITIES**

Soils Survey	Geotechnical Studies	Laboratory Testing	Structures Foundation Analysis & Design	Pile Driving Computer Modeling	PDCA's PDA Certification	PDA, CSL, PIT, & Vibration Monitor.
✓	✓	✓	✓	✓	✓ (Advanced)	✓

**PROJECT EXPERIENCE**

Geosol, Inc., (2000 - present)

**FM No.: 250730-2-32-01 and - 03, Districtwide Geotechnical & Materials Testing Contracts, From Monroe to Miami-Dade Counties, FDOT D6.** Chief Geotechnical Engineer responsible for executing over 400 work orders for projects during PD&E, final design and construction phases. **Recent performance grade was 4.8.** Client: FDOT, PM: Adrian Viala, PE; Phone #: 954.677.7011. Year: 2012-on-going.

**FM No.: 439709-3-62-01, Districtwide Geotechnical & Materials Testing Contracts, From Broward to Osceola Counties, FDOT D4.** Chief Geotechnical Engineer responsible for executing over 70 work orders for projects during PD&E, final design and construction phases. **Recent performance grade was 4.8.** PM: Rocio Merlihan, PE; Phone #: 954.677.7030. Year: 2023-on-going.

**FM No.: 439929-1-52-01, Roadway Improvements on Various Locations Along SR-25/US-27, from MP 12.63 to 25.85, Palm Beach Co., FL, FDOT District 4, Length: 13.2 miles.** Chief Geotechnical Engineer for design responsible for field exploration & laboratory testing, foundation analyses & geotechnical reports. Client: FDOT (c/o: GOAL Associates.; Mr. Godfrey Lamptey, PE; Phone: 786-600-3350.) Year: 2019-2020.

**FM No.: 435265-1-52-01, SR 93/I-75 at SR 29 Improvements– Collier County, FL, FDOT District 1, Length: 1 mile.** Chief Geotechnical Engineer for design responsible for field exploration & laboratory testing, foundation analyses & geotechnical reports. Client: FDOT (c/o: GOAL Associates.; Mr. Godfrey Lamptey, PE; Phone: 786-600-3350.) Year: 2016-2017.





Frank Paruas, PSM

Surveying, Mapping and SUE / Right of Way Services

**Professional Profile**

Frank has 26 years of experience in surveying and mapping in the South Florida region. He has accepted the critical role of project surveyor/manager for numerous contracts. His services have been sought by public works departments, municipalities, and various districts of the Florida Department of Transportation (FDOT). He efficiently manages and supports a fully equipped geomatics and remote sensing group, which encompasses multiple field crews based in GPI Geospatial's Miami, Florida office. Furthermore, he showcases proficiency in the preparation of 3D survey files, skillfully combining terrestrial mobile and static scanning techniques with aerial lidar and imagery. Additionally, Frank is well-versed in subsurface utility engineering (SUE), further enhancing his repertoire of capabilities.

**PROPOSED PROJECT ROLE**

Surveying, Mapping and SUE / Right of Way Services

**EDUCATION**

BS/Mechanical Engineering/1997

**CERTIFICATIONS:**

Professional Surveyor & Mapper #LS6625/FL

**YEARS WITH FIRM**

7

**TOTAL YEARS EXPERIENCE**

26

**PROFESSIONAL AFFILIATIONS:**

Florida Surveying and Mapping Society (FSMS)/Central Florida and South Florida, Member

National Society of Professional Surveyors (NSPS), Member

**Availability**

80%

**Project Experience**

**DB21-DTPW-04 NW 84 Ave from NW 58 Street to NW 74 Street. 09/2022-10/2024. Doral, FL. Project Manager.** GPI Geospatial provided surveying and mapping support as part of this design/build team. GPI Geospatial performed a completed 3D survey for entire corridor, that extended from right-of-way to right-of-way. The 3D survey was completed using terrestrial mobile lidar (TML). We established horizontal and vertical primary and secondary control and prepared a drive plan and target layout to collect the above ground 3D features. Additionally, we obtained the XYZ information, including invert elevation, pipe size, material, and flow direction for all the drainage and sewer structures within the project limits. Furthermore, we established the right-of-way lines for the entire corridor. We also performed soft digs to verify XYZ information from existing underground utilities that were in conflict with proposed improvements. **Client: HBC Engineering Company**

**MDAD Aerial and Topographic Updates 2023 (Airports: MIA, OPF, TMB) E20-MDAD-03. 04/2023-11/2024. Miami-Dade County, FL. Project Manager.** The Miami-Dade Aviation Department (MDAD) updates their aerial imagery and planimetric mapping library to support the infrastructure growth and maintenance of several airports within their jurisdiction. As a part of a multi-year agreement, GPI Geospatial was contracted to provide color orthophotography for all airports within the Miami-Dade airport system, including Miami International Airport (MIA), Miami-Opa-Locka Executive Airport (OPF), and Tamiami Executive Airport (TMB). Additional services included planimetric mapping, oblique aerial imagery, and necessary ground survey support. GPI Geospatial captured high-resolution imagery from a fixed-wing platform to create 2D and 3D planimetric maps. The mapping updates were performed for portions of MIA, OPF and TMB Airports. GPI Geospatial provided all ground survey, control networks, and data integration for the surface models. Final deliverables included the planimetric mapping update CAD files, digital orthophotos in MrSid format, aerial triangulation report, and final surveying and mapping report. **Client: Miami-Dade Aviation Department**

**MDWASD NW 27th Ave. D2-A-1 Phase 2 ER S049759. 04/2023-08/2023. Miami-Dade County, FL. Project Manager.** GPI Geospatial was asked to perform a 3D survey for this neighborhood in Miami-Dade County as part of a design build team for Miami-Dade Water and Sewer Department. The 3D survey extended from right-of-way to right-of-way lines. GPI Geospatial established horizontal and vertical primary and secondary control and prepared a drive plan and target layout to collect the above-ground 3D features. Additionally, we obtained the XYZ information, including invert elevation, pipe size, material, and flow direction for all the drainage and sewer structures within the project limits. Furthermore, GPI Geospatial established the right-of-way lines for the entire corridor. **Client: David Mancini & Sons, Inc.**





## Todd Mohler, RLA, ISA, IA Landscape Architecture

Availability  
80%

32 YEARS  
TOTAL EXPERIENCE

9 YEARS  
WITH KCI

### CERTIFICATIONS & REGISTRATIONS

RLA / FL / LA0001594 / Exp -  
11/30/2025

RLA / FL / LA0001594 / Exp -  
11/30/2025

RLA / GA / 1610 / Exp - 12/31/2026

RLA / SC / 1529 / Exp - 01/31/2027

IA Certified Irrigation Contractor /  
Exp - 12/31/2026

IA Certified Irrigation Designer /  
Exp - 12/31/2026

IA Certified Landscape Irrigation  
Auditor / Exp - 12/31/2026

IA Certified Golf Course Irrigation  
Auditor / Exp - 12/31/2026

ISA Certified Arborist / Exp -  
06/30/2025

FL Water Star Accredited Prof. -  
Cert. (FWS- AP)2

LAP Design Criteria Specs. & Const  
Checklist Trng

Specifications Pkg Prep. Exp -  
09/21/2025

### EDUCATION

BLA Landscape Architecture /  
Clemson University / 1993

Mr. Mohler is an experienced landscape architect with a depth of knowledge developed over three decades of professional experience. His project portfolio ranges broadly between public agencies and private developments. He has specific project experience in parks, streetscapes, hospitality, PUDs, and commercial development. Mr. Mohler specializes in irrigation design providing advanced irrigation systems with site-specific details and special technical provisions, proactively pursuing alternative water sources, including stormwater harvesting and stormwater integration. He has designed, tested, inspected, and managed central control irrigation systems for several years. His thorough understanding of water, soils, and plants within the built environment has contributed to decades of successful consulting within the private sector. Mr. Mohler's experience includes irrigation water management through advanced technologies like soil moisture sensing, weather stations, and computerized central control systems. His professional services on projects include initial data collection and observation, site analysis, concept and design development, and complete site, landscape, and irrigation design, including construction oversight and inspection services.

### PROJECT EXPERIENCE

**Florida Department of Transportation, SR 5/ US 1/ Overseas Highway from Cow Key Bridge to Boca Chica Bridge (Stock Island) - Monroe County, FL. Landscape Architect.** This project was a 2-mile landscape beautification along the Florida Keys Scenic Highway Corridor and gateway to Key West. The project improves the aesthetics of the corridor for drivers and tourists, and the many users of the adjacent Florida Keys Overseas Heritage Trail. The project restores the natural character and habitat of this unique region by eradicating invasive plant species and installing thousands of shrubs and hundreds of trees that are native to this area.

**Florida Department of Transportation, I-275 Skyway Bridge Rest Area - Manatee County, FL. Landscape Architect.** This was a stand-alone landscape project that included planting plans and an establishment of irrigation system that followed the reconstruction of the rest area. Mr. Mohler provided design services for an irrigation system with advanced water conservation features for this bold standalone rest area landscape project.

**Florida Department of Transportation, Andrews Avenue Streetscape - Broward County, FL. Senior Landscape Architect.** KCI's involvement with the creation Andrews Avenue in Broward County began in 2001, with a PDE study followed by the design of Segments 1, 2, 3, and 5. Mr. Mohler provided site analysis, hardscape layout, maintenance agreements, and planting and irrigation design for this one-mile roadway project.

**City of Coconut Creek, Lyons Road - Coconut Creek, FL. Landscape Architect.** KCI developed the master plan for this seven-mile corridor enhancement project. This project included developing a unified landscape and hardscape treatment, gateway enhancements accenting major intersections, and realigning sidewalks. KCI also developed design and construction drawings for all phases of this project, which included median landscape, hardscape, and irrigation improvements. Mr. Mohler provided site analysis, streetscape design, and landscape and irrigation design for a two-mile roadway beautification project.

**Florida Department of Transportation, Andrews Avenue Streetscape - Broward County, FL. Senior Landscape Architect.** KCI's involvement with the creation Andrews Avenue in Broward County began in 2001, with a PDE study followed by the design of Segments 1, 2, 3, and 5. Mr. Mohler provided site analysis, hardscape layout, maintenance agreements, and planting and irrigation design for this one-mile roadway project.

**EXPERIENCE**

Lawrence (Larry) DeRose has more than 40 years of marine, structural, and civil engineering consulting experience in South Florida with an emphasis on port, marine, structural, land development, and terminal projects, from planning to construction certification. Larry's professional background includes all levels of experience in his areas of specialization, ranging from the most basic to management of complex projects, and in a broad variety of studies involving the practical applications of hydrology, hydraulics, fluid mechanics, and structural mechanics. He is experienced in all aspects of planning and directing studies that involve large- and small-scale site development for government planning programs, including feasibility, construction, and development. Larry also has extensive experience in the regulatory aspects of land use, underground pipeline construction, and practical applications of structural materials. He is a qualified expert witness and has testified before a number of government agencies and in court on a broad range of matters related to his professional specialization. These projects have been conducted throughout the entire eastern half of the United States, as well as in the West Indies, Virgin Islands, and the Bahamas.

Larry is a Fellow of the American Society of Civil Engineers, which is an honorary standing in recognition of long term (20 year) active participation. He also has a national file for the advancing licensure issued by NCEES.

**REPRESENTATIVE PROJECT EXPERIENCE**

**Broward County, Port Everglades Southport Turning Notch Expansion, Fort Lauderdale, FL.** To increase berthing space to accommodate larger cargo ships, Port Everglades has proposed the expansion of its Southport Turning Notch. Improvements will include the redevelopment of 25 acres of container yard and berthing apron space. Stormwater drainage will be provided through 7,200 linear feet of pipe and 1,900 linear feet of exfiltration trenches. Most of the site will be covered with asphalt; therefore, drainage design will incorporate underground exfiltration trenches to temporarily retain stormwater on site through exfiltration trenched prior to discharge from the site. This system eliminates any discharge of stormwater runoff pollution offsite as well as provide a natural filter for runoff retained onsite left to percolate and recharge groundwater.

**City of Hollywood, Engineering Consulting Services, Hollywood, FL.** Principal-in-charge for two on-call contracts with the City of Hollywood: the Continuing Contract for Structural Engineering Services and the Continuing Contract for Mechanical, Electrical, and Plumbing Engineering Services. Both contracts have three-year terms, with an option to renew the contracts for an additional two years. Work includes miscellaneous engineering services throughout the city.

**Yacht Haven Grande at Island Gardens Marina – Gangway Platform Extension, Miami, FL.** Structural engineer for this Island Global Yachting, LP project. Moffatt & Nichol provided consulting services for the gangway platform extension project located at Yacht Haven Grande at Island Gardens Marina in Miami, Florida. An extension to the existing fixed platform is proposed to increase the platform footprint to improve access and mobility to the proposed primary marina entrance as part of the site development. The scope of work includes data collection, preliminary design and project team coordination, environmental permitting, and design review of the vendor designed platform

**PortMiami Electric Rubber Tire Gantries (eRTG), Miami, FL.** Supported the preliminary and final design, technical specifications, bidding administration, construction management/administration, and special inspections for the infrastructure improvements within a 40-acre active cargo yard for using Electric Rubber Tire Gantries (eRTG) and electric refrigerated container rack structures. Site improvements included the design of seven new concrete runways (2,500 feet each) for new eRTG cranes and turning pads, eRTG high wind/storm tie-downs, five hi-mast pole foundations, pavement, pavement marking and signage, grading and drainage for runways, and 22 steel reefer rack structures (six containers high) and foundations.

**EDUCATION**

BE, Engineering, Stevens  
Institute of Technology, 1973

**REGISTRATION**

**Professional Engineer:**  
Florida (20169)

**CERTIFICATIONS**

State Certified Threshold  
Building Inspector

**AFFILIATIONS**

Member, Fellow, American  
Society of Civil Engineering

Member, Post Tensioning  
Institute

**EXPERIENCE**

Since Jackie Brower joined Moffatt & Nichol in 2015, she has been participating in a wide range of coastal, estuary, ports, marinas and riverine engineering projects. The specific types of work include: coastal structure design, shoreline protection and beach nourishment projects; marina planning and circulation studies; coastal watershed hydrology studies; estuarine/riverine hydrodynamic, sedimentation and water quality evaluation; wetland related hydraulics and tidal muting studies; coastal and riverine flood control, protection and damage analysis; wave propagation modeling. Jackie also leads the coastal instrumentation and data collection program at Moffatt & Nichol. Prior to joining Moffatt & Nichol, Jackie had participated in a variety of engineering & research projects focusing on nearshore hydrodynamics, including wave propagation, circulation, and contaminant transport in Caribbean reef lagoon systems.

**REPRESENTATIVE PROJECT EXPERIENCE**

**Miami Back Bay Coastal Storm Risk Management, Miami, FL. Resiliency** specialist for a nature-based structural solution for the Back Bay Coastal Storm Risk Management feasibility study for the County. The original resiliency approach proposed for downtown Miami was an 18-foot-tall conventional floodwall surrounding most of the downtown waterfront. M&N proposed a multiple lines of protection strategy that provided equivalent protection levels to the floodwall while providing environmental benefits, additional public access, stormwater improvements, water quality upgrades, and maintained local property values and views. The system consisted of low crested oyster breakwaters, elevated structural breakwaters planted with mangroves, dedicated seagrass-wetland protection zones, secondary structural revetment system upland seat walls, bio-swale stormwater areas, and localized building protection.

**Shoreline Restoration at Fort El Cañuelo, National Park Service, San Juan, Puerto Rico.** Project manager and coastal engineer for planning and designing the proposed shoreline protection and restoration program for a 500-year-old cultural and historical fort and UNESCO heritage site in San Juan. Project includes coastal, hydrodynamic, volumetric, and environmental components to include evaluation of coastal hazards, repair of existing revetment systems, and new shoreline stabilization design through armoring and nature-based solutions. Currently in Preliminary Design stage of preferred schematic design alternatives.

**Maintenance Dredging & Everglades Restoration Program, National Park Service, Everglades, FL.** Project manager and coastal engineer for planning and developing the proposed maintenance dredging program and Everglade's wetland restoration. Dredging program includes coastal, hydrodynamic, volumetric, and environmental components to include evaluation of canal restoration to restore 1.5 acres of wetland and provide wetland enhancement up to 55,894 acres. Currently in Value Analysis stage of preferred schematic design alternatives.

**Coastal & Flooding Hazard Analysis, National Park Service, Padre Island, TX.** Project manager and coastal engineer for the coastal and metocean analysis and Coastal Hazard Analysis Modeling Program (CHAMP) modeling. Developed finished floor elevations based on current coastal hazards and future sea level rise.

**Coastal Protection and Beach Nourishment, Private Resort, St. Thomas, USVI.** Project manager and coastal engineer overseeing shoreline restoration works for a private beach at a luxury resort. Designed and oversaw construction as owner's representative for coastal improvements and shoreline protection. The project elements include 2-phase construction for a 30,000 CY beach nourishment and a long-term coastal protection system consisting of offshore, low-crested segmented breakwaters. Project is currently in the permit approval process.

**Shoreline Improvements and Beach Restoration, Ritz Carlton, St. Thomas, USVI.** Project manager and coastal engineer overseeing shoreline restoration works for a private beach at a luxury resort. Designed and oversaw construction as owner's representative for coastal improvements and shoreline protection. The beach nourishment included upland placement of sand (~2,000 CY) allowing an expedited permit approval process, with the project design, permitting, and construction occurring with 8-months to meet the resort grand re-opening timeline.

**EDUCATION**

PhD, Coastal and Oceanographic Engineering, University of Florida, 2015

ANG Officer Commission, 2nd LT, Academy of Military Sciences, 2011

ME, Water Resources Engineering, University of Florida, 2012

BS, Civil Engineering, University of Florida, 2010

**REGISTRATION**

California, Civil, 89126, 2018

Florida, Civil, 89887, 2020



## EXPERIENCE

Jade Bennett is a coastal associate with over four years' experience in coastal engineering assisting in preliminary design plans, submitting permit and grant applications, field inspections, field data collection, and preparing professional reports on findings and conclusions. Additionally, she has three years of field experience through her time as a field civil engineer at the Port Everglades Turning Notch Expansion. Jade has a Bachelor of Science in both environmental engineering and civil engineering and has a Master of Engineering in environmental engineering sciences. She has gained experience through her traditional coursework in both fields while tailoring her studies to focus on ecological engineering, ecological restoration, sustainability, wetlands, and nature-based solutions. Jade was also involved in Engineers Without Borders and was project manager for a Community Water Quality Improvements, El Chimborazo, Nicaragua.

## EDUCATION

MS, Environmental Engineering, University of Florida, 2023

BS, Civil Engineering and BS, Environmental Engineering, Florida International University, 2019

## REGISTRATION

PE #FL32907

## REPRESENTATIVE PROJECT EXPERIENCE

**FY24 MCON Special Project Typhoon Mawar - Apra Harbor Waterfront Repairs, Piti, Guam.** Coastal associate for this NAVFAC Marianas project. The project seeks to repair or create approximately 4,450 linear feet of shoreline protection and provide continued protection against overtopping.

**Key Biscayne Beach Nourishment - Construction Administration, Key Biscayne, FL.** Coastal associate for this Village of Key Biscayne project. M&N was retained to submit permit applications and coordinate with the regulatory agencies to facilitate procurement of permits authorizing placement of beach-compatible sand at Key Biscayne Beach on an as-needed basis.

**Shore Club, Miami Beach, FL.** Coastal associate for this Shore Club Property Owner LLC project.

**Section 103 Permit Application and Coordination, Mobile, AL.** Coastal associate who worked on this long-term (30-year) dredged material management plan for the Alabama Port Authority (APA). This program prioritizes working in conjunction with the existing operations, resources and conditions at the Port to improve and enhance current operations. The use of new BU dredged placement areas is focused to leverage existing management strategies and expand the program in a sustainable and environmentally conscious manner without compromising the economic and logistical needs of the port. These alternatives were evaluated through the comparison of estimated design, permitting, and construction costs; years of anticipated additional capacity; units costs of dredging, operations and maintenance requirements; approximate annual costs to the APA; a prorated comparison of the cost of current practices to the estimated cost of the proposed alternative; and an overall cost savings over the anticipated lifespan/capacity of the alternative.

**Federal Emergency Management Agency (FEMA) FY22 Region 2 Production, Washington D.C.** Coastal associate who worked on this Advancing Resilience in Communities Joint Venture project for FEMA – Federal Insurance and Mitigation Administration (FIMA) – Risk Management Directorate (RMD). The scope of this project includes base level engineering and digital floodplain mapping as well as issuance of a new Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM). This updated flood hazard information can be used for expanding local flood risk awareness, enhancing emergency management services, FEMA regulatory submittals, and hazard mitigation planning.



## EXPERIENCE

Vanessa Benzecry has over 10 years of experience in waterfront structures throughout the U.S. and Caribbean. Her experience includes project management, structural design, and inspection of different types of coastal projects in Miami-Dade County, including recreational (park) facilities, seawall, public docks, and marinas. Her PhD dissertation, "Towards Resilient Concrete Structures with FRP Reinforcement," focused on designing resilient coastal structures by using FRP bars, a more sustainable and non-corrosive reinforcement, which consequentially enabled the use of concrete made with seawater, an alternative that facilitates the production of concrete in remote areas while reducing the use of potable water.

## EDUCATION

PhD, Civil Engineering,  
University of Miami, 2020

MS, Civil Engineering,  
University of Miami, 2014

BS, Civil Engineering,  
University of Miami, 2013

## REGISTRATION

Professional Engineer:  
FL, #92544, 2021

## REPRESENTATIVE PROJECT EXPERIENCE

**Sage Intracoastal - 900 Intracoastal Drive, Ft. Lauderdale, FL.** Structural engineer involved in the conceptual bulkhead replacement and docking facility design, data collection, and initial permitting strategy on this PMG Acquisitions, LLC project. M&N collected initial field data, performed environmental permitting and sovereignty submerged (State-owned) lands use strategy/feasibility, as well as conceptual docking facility design consulting services for the multi-family residential redevelopment project.

**Solana Bay, Miami, FL.** Structural engineer who performed bulkhead design coordination, permit processing, bulkhead permit sketches, and bulkhead/riprap permit processing on this BHK White House, LLC project. This project involved seawall replacement and riprap along approximately 495 linear feet of shoreline within the Biscayne Bay Aquatic Preserve to redevelop the upland site for construction of a new upland development and included design consideration for a future docking facility redevelopment.

**Repair TRF Interface Wharf, Kings Bay, GA.** Structural engineer responsible for the E2 design specifications on this MN-BMCD SE Joint Venture project for Naval Facilities Engineering Systems Command Southeast (NAVFAC Southeast), part of a \$60 million architect-engineer indefinite delivery indefinite quantity contract, responsible for waterfront projects throughout the NAVFAC Southeast's area of responsibility.

**Yacht Haven Grande at Island Gardens Marina-Gangway Platform Extension, Miami, FL.** Structural engineer responsible for the background data review, concept design, and platform permit sketches on this Island Global Yachting, LP project. M&N provided consulting services for the gangway platform extension project located at Yacht Haven Grande at Island Gardens Marina in Miami, Florida. An extension to the existing fixed platform is proposed to increase the platform footprint to improve access and mobility to the proposed primary marina entrance as part of the site development. The scope of work includes data collection, preliminary design and project team coordination, environmental permitting, and design review of the vendor designed platform.

**PTB - Berth 301, Tampa, FL.** Structural engineer for this Port of Tampa Bay project. This project involved the development of the design for Berth 301 at Port of Tampa Bay, an extension of existing facilities to handle bulk materials at the Port.

**Harbor Marina South Basin North Wave Attenuator, Clearwater, FL.** Structural engineer responsible for the 60 and 90 percent submittal, design contingency, and final construction documents on this City of Clearwater project. M&N is providing construction documents and environmental permit applications for the City for the replacement of three floating Wave Attenuator (WA) segments. The WA replacement will consist of WA units located at the northwest corner of the South Basin with associated marina utilities.

# Andrew Provost, AMPP SCCI, AWS CWI, MT, PT

Non Destructive Testing

## PROFESSIONAL EXPERIENCE

Andrew is a senior project manager with more than 30 years of experience and a broad range of current certifications including non-destructive testing in a variety of methods, welding inspection, and protective coatings. His duties include managing an inspection group, writing proposals, and managing projects that have services related to destructive and non-destructive examination of various materials and equipment, and forensic investigations. Andrew has served as an Adjunct Welding Instructor at Seminole Community College. He worked through positions of increasing skill and responsibility for a highly respected international engineering and consulting firm for more than 15 years after working in the structural steel and miscellaneous metals fabrication field for more than 10 years.

Andrew's professional experience includes multiple disciplines of inspection and testing on bridges, stadiums, building components, power plant facilities, and amusement devices and rides. Performing vendor quality assurance inspections and field inspections for various types of bridges and sign support structures for Department of Transportations in eight states. As an AMPP Senior Certified Coating Inspector (formerly NACE Level 3) he has been involved in quality assurance/quality control (QA/QC), corrosion mitigation and control, condition assessments, and failure analysis for a wide range of coatings on various substrates.

## PROJECT EXPERIENCE

### South Corridor Rapid Transit – Miami-Dade County, FL

Senior Welding Inspector/QA/QC Review. The South Corridor Rapid Transit Project is a 20-mile corridor that connects some of the region's fastest-growing communities. The project includes 14 new rapid transit stations, improvements to the two end-of-line terminals at Dadeland South and SW 344 Street, rehabilitation of the 16 existing stations along the corridor, a new park-and-ride garage, and significant corridor rehabilitation and improvements along 20 miles of exclusive right-of-way (ROW). Terracon has been responsible for the creation and upkeep of a QA plan for OHLA's construction operations. In addition, Terracon has provided QA inspections, and QA materials testing services for the project.

### Florida Department of Transportation (FDOT) District 4 (D4) Bridge Coatings and Repair Projects – Various Locations, South FL

Senior Coatings, Welding, and Bolting Inspector. Conducted all aspects of full-time on-site inspection services for new construction, repairs to existing bridges, lead abatement, bridge coatings for new and existing bridges, and monitoring set-up/tear-down and tracking quantities of maintenance of traffic (MOT) while with another firm. Projects included Commercial Boulevard over the Intracoastal Waterway (ICW), Hollywood Boulevard Bridge over the ICW, Hillsboro Avenue Bridge over the ICW, and NW 12th Avenue Bridge over the Miami River.

### Golden Glades Multimodal Transportation Facility (GGMTF) - Miami, FL

Senior Welding Inspector/QA/QC Review. The \$60 million design/build (D/B) project consists of upgrading and enhancing mobility at the existing GGMTF. Terracon provided inspection, materials sampling, and testing services for the project. Our scope of services included laboratory-moisture density tests (Proctor); field density tests, gradation/sieve analysis, organic analysis, laboratory, LBR, signed and sealed reports as required. Concrete materials testing, reinforced masonry, structural steel, and steel joints services were required for the design and construction of the GGMTF.



## EDUCATION

High School Diploma, Monroe Christian Schools, 1979

## REGISTRATIONS/ CERTIFICATIONS

AWS Certified Welding Inspector with Aluminum Welding Code Endorsement and Bridge Welding Code Endorsement  
AMPP Senior Certified Coatings Inspector (formerly NACE Level 3)  
NDT/NDE Magnetic Particle Level II  
NDT/NDE Dye Penetrant Inspection Level II  
SSPC Bridge Coating Inspector Level II

## AFFILIATIONS

American Society for Non-Destructive Testing  
American Welding Society / Central Florida-Orlando Section 510-Treasurer (Member since 1999)  
Association for Materials Protection and Performance / Central Florida Chapter-Officer (Member since 2003)

## YEARS OF EXPERIENCE

Total: 31  
With Firm: 10

## OFFICE LOCATION

Winter Park, FL  
*\*Provides services statewide*



## RAJ KRISHNASAMY, P.E.

Geotechnical Engineering  
/ Pavement Analysis  
& Design

38 Years of Professional  
Experience



### Education

MS in Geotechnical  
Engineering, University of  
Memphis, 1995

BS in Civil Engineering,  
Christian Brothers  
University, 1987

Diploma Electronic  
Engineering, Malaysian Air  
Force Institute, 1984

### Professional Organization and Registration

Professional Engineer:  
Florida, 53567

Water Well Contractor,  
Florida, 11346

Certified OSHA Supervisor

Certified Environmental  
Consultant

### Professional Experience

Mr. Raj Krishnasamy, P.E., President and Principal Engineer of TSFGeo, is a Florida Registered Geotechnical Engineer with more than 38 years of experience. Mr. Krishnasamy oversees the geotechnical engineering, construction materials testing, and inspection services operations. His experience consists of successfully completing over 7,500 public and private projects. He serves as Project Manager for continuing contracts with over 20 Florida public agencies. He has a history of repeatedly retaining those contracts through successful, cost-effective, and prompt execution of each task order. Mr. Krishnasamy's daily involvement with the in-house and field operations of the construction and geotechnical services departments provides him with "hands-on" experience and knowledge of current construction codes and construction practices throughout the State of Florida. Mr. Krishnasamy and his highly experienced team focus on providing the client with a consistently accurate, cost-effective quality product that is delivered on time and within budget.

### Relevant Project Experience

**Coconut Isle Drive, Fort Lauderdale, Florida.** Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering and Construction Materials Testing Services for the project which consisted of replacements to the bridge. The study was performed to obtain information on the existing subsurface conditions. The purpose of this study was to provide geotechnical input to the design team to assist in evaluation of the merits of roadway improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding driven pile axial capacity, concrete pile installation, scour, pile installation, test pile program and soil parameters for end bent design. During construction, services included concrete sampling. A TSFGeo Senior Engineer provided review of daily reports, handled project coordination and attended meetings, as necessary.

**Sheridan Street (SR-822) Bridge over ICWW, Broward County, Florida; FPID No. 441462-1-32-01.** Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering Services for the project which consisted of bridge repair/ rehabilitation and mast arms along Sheridan Street Bridge. The purpose of this study was to provide geotechnical input to the design team to assist in the evaluation of the merits of the improvements. Provided a geotechnical engineering report which included evaluations and recommendations regarding foundation design and drilled shaft construction.

**Widen Spur (SR91) - Golden Glades Turnpike to Broward County, Miami-Dade County, Florida; FPID No. 423373-5-52-01.** Mr. Krishnasamy was the Principal-in-Charge of the Geotechnical Engineering Services for the project which consisted of the existing bridge being widened on the north end and the Snake Creek Canal and bridges being replaced for crossing at NW 199<sup>th</sup> Street and Miami Gardens Boulevard. The purpose of this study was to provide geotechnical input to the design team to assist in the preparation of construction plans for the bridge alterations or replacements. Provided a geotechnical engineering report which included evaluations and recommendations regarding pile selection, driven pile axial capacity, downdrag evaluation, pile group settlement evaluation, scour resistance, lateral stability and soil parameters, concrete pile installation, test pile program, construction considerations, excavations and temporary walls.

# UNDERWATER HYDRAULICS

---

## Summary

Highly skilled and safety-focused Commercial Diver with [5] years of hands-on experience in underwater welding, rigging operations, and dive safety support across marine construction, inspection, and salvage projects. Certified in commercial diving and specialized in executing complex welding repairs, steel installations, and structural modifications in hazardous underwater environments. Adept at setting up and operating rigging systems, lifting plans, and load transfers in compliance with OSHA and ADCI standards. Proven track record as a Safety Diver, maintaining high safety vigilance, conducting dive briefings, monitoring air supply systems, and responding swiftly to emergencies. Experienced working under high-pressure conditions with engineering teams, vessel crews, and construction contractors in shipyards, and port infrastructure. Committed to operational excellence, procedural integrity, and protecting diver welfare through continuous training and adherence to strict safety protocols.

---

## Experience

1. Pump Station Inspections, South Broward Drainage District. Inspecting trash grates in front of pump station and pipes leading from pump station to retention pond. 2022 - Present.  
Andrew Sabino:954-275-1756.
2. Directional Bore Inspections, South Broward Drainage District. Inspected multiple pipes looking for directional bores done by others. 2022 – Present. Andrew Sabino: 954-275-1756
3. Pump Station Pump Pad, South Broward Drainage District. Built a sand cement rip rap pad from the bed of the canal coming up to the bank out of the water. It's purpose is to park a mobile pump on and allow pump head to be in the water on the pad and not in the dirt dredging the canal when pumping. 3/2024- 3/2024. Andrew Sabino: 954-275-1756
4. Headwall Installation In Canal, Johnson and Davis. Got canal bed to grade and set headwall in. Then got pipe set and connected to headwall from bank. 3/2025 – 4/2025. Joe : 561-718-4536

---

## Accomplishments

Commercial Diver Card  
NAUI Master Scuba Diver  
Levels 1&2 Ultrasonic Testing and Magnetic Particle  
American Red Cross First Aid/CPR/AED  
Offshore Survival and Safety through A&M  
DAN O2HAZWOPER in 29CFR 1910.120  
Rigging (API RP2D, Revision 7)  
ROV training and operation

---

## Education and Training

The Ocean Corporation | Houston, TX  
**Commercial Diver**, Underwater Welding, Rigging, Safety Diving.  
  
U.S Navy Divers Program |  
**Commercial Diving**, Underwater Welding, Rigging, Safety Diving

# UNDERWATER HYDRAULICS

---

## Summary

Highly skilled and safety-focused Commercial Diver with [5] years of hands-on experience in underwater welding, rigging operations, and dive safety support across marine construction, inspection, and salvage projects. Certified in commercial diving and specialized in executing complex welding repairs, steel installations, and structural modifications in hazardous underwater environments. Adept at setting up and operating rigging systems, lifting plans, and load transfers in compliance with OSHA and ADCI standards. Proven track record as a Safety Diver, maintaining high safety vigilance, conducting dive briefings, monitoring air supply systems, and responding swiftly to emergencies. Experienced working under high-pressure conditions with engineering teams, vessel crews, and construction contractors in shipyards, and port infrastructure. Committed to operational excellence, procedural integrity, and protecting diver welfare through continuous training and adherence to strict safety protocols.

---

## Experience

1. Pump Station Inspections, South Broward Drainage District. Inspecting trash grates in front of pump station and pipes leading from pump station to retention pond. 2022 - Present.  
Andrew Sabino:954-275-1756.
2. Directional Bore Inspections, South Broward Drainage District. Inspected multiple pipes looking for directional bores done by others. 2022 – Present. Andrew Sabino: 954-275-1756
3. Pump Station Pump Pad, South Broward Drainage District. Built a sand cement rip rap pad from the bed of the canal coming up to the bank out of the water. It's purpose is to park a mobile pump on and allow pump head to be in the water on the pad and not in the dirt dredging the canal when pumping. 3/2024- 3/2024. Andrew Sabino: 954-275-1756
4. Headwall Installation In Canal, Johnson and Davis. Got canal bed to grade and set headwall in. Then got pipe set and connected to headwall from bank. 3/2025 – 4/2025. Joe : 561-718-4536

---

## Accomplishments

Commercial Diver Card  
NAUI Master Scuba Diver  
Levels 1&2 Ultrasonic Testing and Magnetic Particle  
American Red Cross First Aid/CPR/AED  
Offshore Survival and Safety through A&M  
DAN O2HAZWOPER in 29CFR 1910.120  
Rigging (API RP2D, Revision 7)  
ROV training and operation

## Education and Training

The Ocean Corporation | Houston, TX  
**Commercial Diver**, Underwater Welding, Rigging, Safety Diving.  
  
U.S Navy Divers Program |  
**Commercial Diving**, Underwater Welding, Rigging, Safety Diving



# **ESTHER MONZON-AGUIRRE**

## **Public Involvement Manager**

### **RELEVANT EXPERIENCE HIGHLIGHTS**

Esther Monzon-Aguirre has over 30 years’ experience advising and representing clients throughout the corporate community, regarding their public, regulatory and marketplace challenges. Esther is widely regarded as one of the premier community outreach professionals and legislative advocates, with a reputation built upon keen attention to detail, advocacy expertise with a broad spectrum of real-world challenges solutions and relentless commitment to customer service.

She has assisted clients build a strong strategic foundation by designing and managing creative, collaborative strategic planning processes. The result is clarity of business purpose, well-understood values, and a compelling vision for the future, coupled with goals. Building on that foundation, she assists clients in defining business objectives, actions and timetables, tied to financial projections and budgets. She works closely with the chief executive and the executive team during this process. Often, she is called upon to facilitate decisions by boards of directors, senior managers, employees, and other groups. The result is a business plan that the client owns and is ready to implement.

### **YEARS OF EXPERIENCE**

33+

### **YEARS WITH THE FIRM**

14+

### **EDUCATION**

Certificate, Grant Writing Specialist, Florida International University

### **REGISTRATIONS & CERTIFICATIONS**

Miami-Dade Realtors Association

Florida Notary

### **RELEVANT PROJECT EXPERIENCE**

#### **Design-Build Services Terminal F, Port Miami**

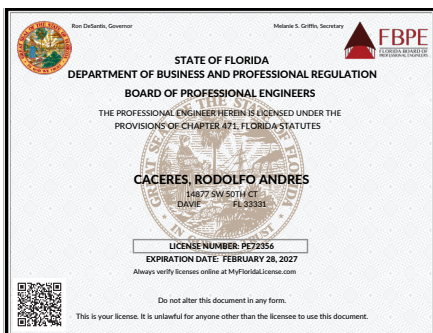
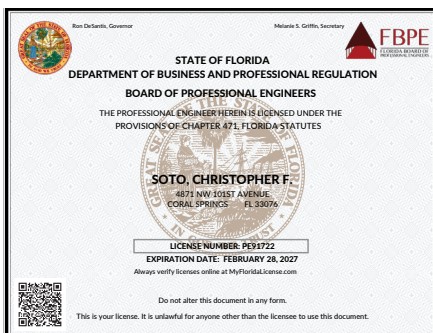
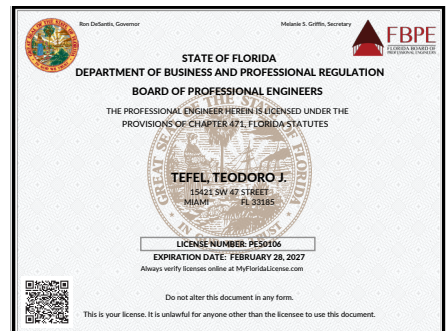
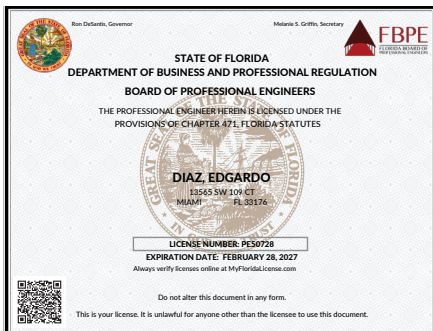
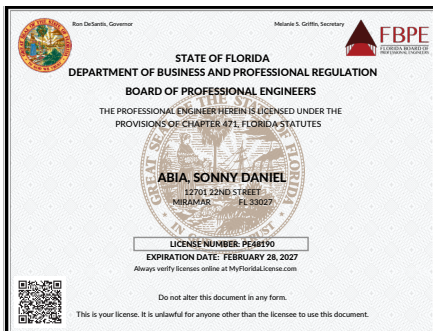
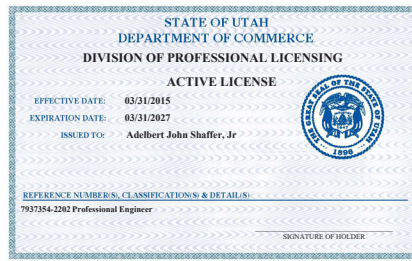
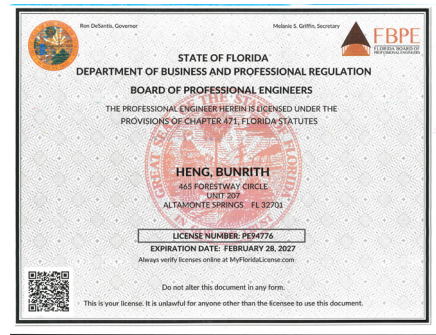
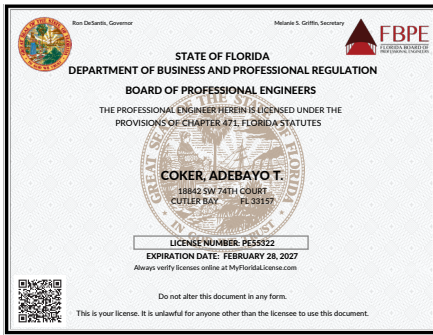
Carnival Corporation and Miami-Dade County have entered into an agreement to renovate Cruise Terminal F to accommodate CCL’s XL 7,000 passenger vessel. The terminal is 471,000 square feet and will become Carnival’s third terminal at PortMiami. Terminal F will feature a clean and open design, providing Carnival’s newest class of ships with top-tier efficiency and flexibility, and maximizing the use of technology to smooth the guest embarkation process and provide a seamless boarding experience.

Esther is responsible for providing strategic communications support to the Design/Build Team including stakeholder outreach to PortMiami tenants. Longshoreman’s Association and elected officials. Esther is also responsible for providing outreach support to the Design/Build Team for Small Business Enterprise outreach and coordination.

Esther’s Scope of Work includes:

- Development of a Community Awareness Plan involving the notification of key stakeholders, resolving controversial issues and establishing a process for achieving effective awareness and public involvement of the project
- Prior to the start of construction, elected officials would be identified and briefed on the project per the County requests including County Commissioner and City of Miami officials
- Determine which stakeholders will be temporarily impacted during construction and proactively work and coordinate with them
- Construction Advisories and Informational materials throughout the project, as needed
- Manage relations with the Media in coordination with the Prime Contractor and PortMiami

# HBC Engineering Company (DBE, MBE, SBE)



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

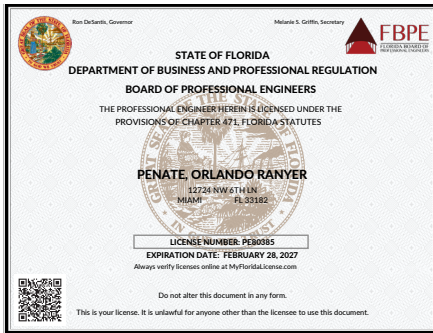
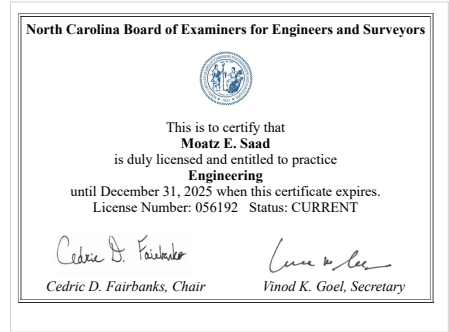
dbpr Department of Business & Professional Regulation

HOME CONTACT US MY ACCOUNT

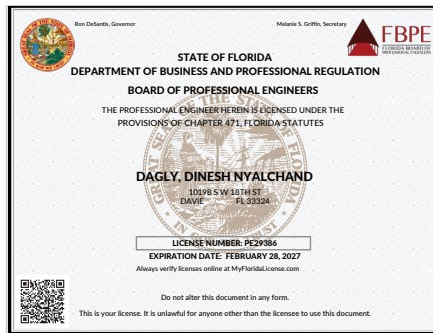
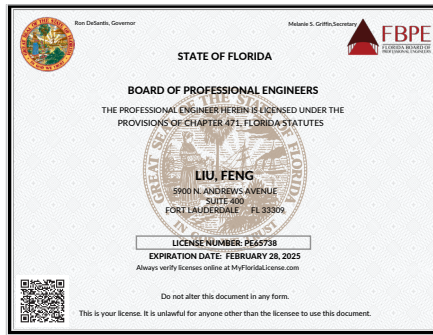
ONLINE SERVICES  
Apply for a License  
Verify a License  
View Food & Lodging Inspections  
File a Complaint  
Continuing Education Course Search  
View Application Status  
Find Exam Information  
Unlicensed Activity Search  
AS&T Delinquent Invoice & Activity List Search

LICENSEE DETAILS  
Licensee Information  
Name: RODRIGUEZ MOLIER, CLAUDIA DE LA CARIDAD (Primary Name)  
Main Address: 2245 SW 69TH AVE  
MIAMI, Florida 33155  
DADE  
Country:  
License Information  
License Type: Professional Engineer  
Rank: Prof Engineer  
License Number: 88867  
Status: Current/Active  
License Date: 05/14/2024  
Expires: 02/28/2027  
Special Qualifications  
Qualification Effective

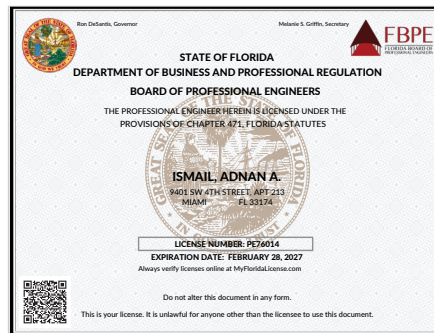
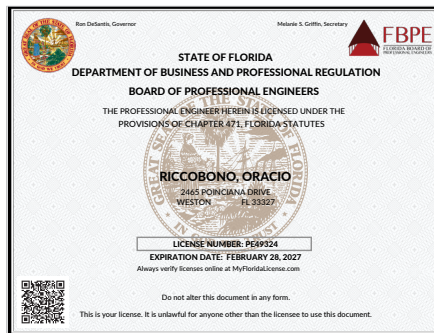
# HBC Engineering Company (DBE, MBE, SBE)



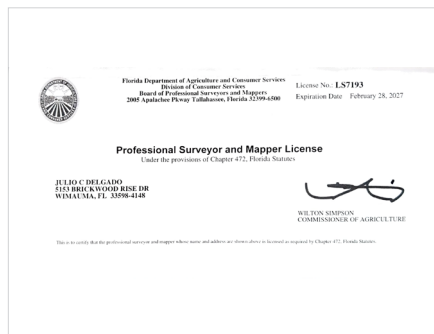
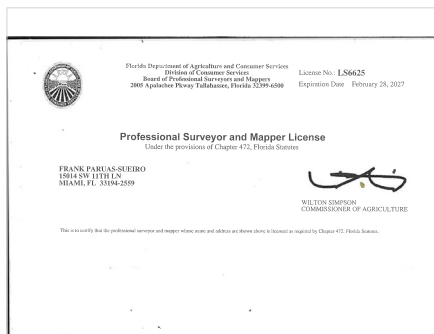
## EAC Consulting, Inc. (CBE, MBE)



## Geosol, Inc. (DBE, MBE, SBE)



## GPI Geospatial, Inc.



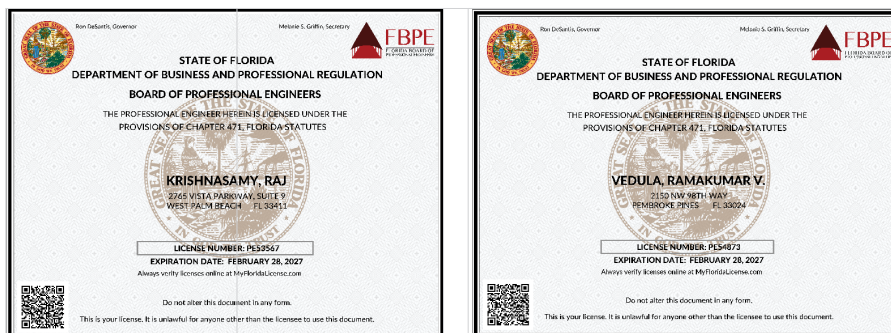
# KCI Technologies, Inc.



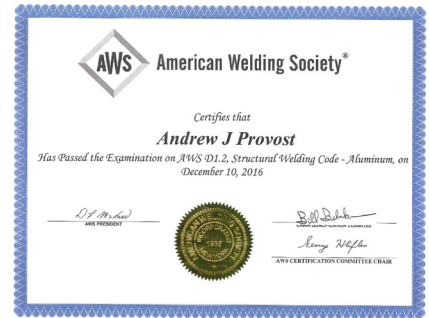
# Moffatt & Nichol, Inc. (CBE)



# TSF Tierra South Florida, Inc. (DBE)



# Terracon Consultants, Inc.



# Underwater Hydrolic LLC

**EVALUATION REPORT & COUNSELING RECORD (E1 - E6)**

NAME: ROGGERS, SHAWN M. ID: 20631 NAVY VESSEL TRACKER

DATE: 01/11/2022

PERFORMANCE RATING: 4.0 (Satisfactory)

REMARKS: The candidate demonstrated a strong understanding of the subject matter and was able to apply this knowledge to the practical application of the subject matter. The candidate was able to identify and solve problems and was able to work effectively in a team environment.

**EVALUATION REPORT & COUNSELING RECORD (E1 - E6) (cont'd)**

NAME: ROGGERS, SHAWN M. ID: 20631 NAVY VESSEL TRACKER

DATE: 01/11/2022

PERFORMANCE RATING: 4.0 (Satisfactory)

REMARKS: The candidate demonstrated a strong understanding of the subject matter and was able to apply this knowledge to the practical application of the subject matter. The candidate was able to identify and solve problems and was able to work effectively in a team environment.

**Academic Transcript**

Student: Hunter Mathews Payne

Class: Ultimate Diver Training

Score: 87.00

Course	Grade	Score	Average
First Aid / CPR Practical	Pass		
Magnetic Particle Level 1	General	80.20	87.00
Magnetic Particle Level 2	General	82.90	88.00
Ultrasonic Level 1	General	75.00	80.00
Ultrasonic Level 2	General	87.40	93.00
Rigging	Practical	85.60	
Basic Physics & Physiology	Practical	83.80	
Decompression Procedures	Practical	87.40	
Treatments	Practical	92.80	
Remotely Operated Vehicles Practical	Practical	84.00	
Divers Alert Network Oxygen	Practical	82.00	
Basic Tending & Diving	Practical	86.50	
Midterm	Practical	70.00	
Mixed Gas	Practical	91.00	
Offshore Safety & Survival (BOSET)	Practical	89.20	
Continued Diving	Practical	91.00	
Self Sanitation	Practical	96.40	
Welding & Burning	Practical	84.00	
Diving Section Final	Practical	84.00	

# V3 Architectural Group, Inc. (DBE)



# 5.A | APPROACH TO THE SCOPE OF WORK

## TECHNICAL APPROACH

The HBC team consists of qualified, experienced, and licensed firms to provide Professional Engineering Consulting Services related to a continuing contract for Bridge Design and Miscellaneous Structural Engineering Services for the City’s Public Works Department in accordance with the requirements of the RFQ.

The work to be accomplished includes site survey, geotechnical investigation, preliminary design sketches, public involvement, detailed structural analysis, development of construction drawings, technical specifications for materials and construction methods, preparing construction cost estimates, permitting, utility coordination and utility relocation design, drainage design, preparing bidding documents and post design services, preparing final load rating analysis as per FDOT standards.

If selected by City of Fort Lauderdale, the HBC team will provide Bridge Design and Miscellaneous Structural Engineering Services for city owned seawalls, bulkheads, bridges, water/wastewater structures, and other miscellaneous structures. The projects may include structural inspection, condition assessment, evaluation of structural integrity, developing master plans, designing new structures with complete replacement phasing stages, and designing the rehabilitation and strengthening existing structures using conventional and advanced materials, such as composites and fiber reinforced polymers, analysis, evaluation, load rating, preparation of construction documents and support for all structures, permitting, bidding, bid evaluation, cost estimation. Additional services may include grant application and staff augmentation as well.

At HBC, we have core tenants that begin with safety and environmental stewardship. All we do begins with these two commitments, and when a design idea or delivery cannot meet one of these two tenants, we pause and find a solution that can.

### Technical Approach Bridge Replacement Design Approach

Our approach at a high-level outline of a potential solution to bridge replacement. Our priority is to accelerate the design process, minimize environment impacts and facilitate permitting process, provide durable bridge structures that are highly corrosion resistant, and minimize public disruption during the construction.

## APPROACH TO THE PROJECT PROCESS

The project process begins with a clear objective and planning of the work, followed by the project execution and monitoring of performance. The project is then delivered and supported in post design.

### DEFINE BRIDGE REPLACEMENT OBJECTIVE

## NTP

### PROJECT EXECUTION

- DC, Scoping
- Constraints Identification
- Specific Requirements
- Interim Milestones: BDR, Conceptual Plans, 90% Submittal package

### MONITOR PERFORMANCE

- QA/QC Reviews
- Budget and Schedule Monitoring

### DELIVER

100% construction plans submittal

### POST DESIGN SERVICES



### To achieve this, our approach includes:

- Evaluate the span arrangement and coordinate closely with City of Fort Lauderdale Maintaining to determine the span length and bridge geometry as quickly as possible in the BDR stage. Coordinate with the geotechnical engineer to determine the boring layout and permitting plans for borings once the bridge span arrangement is selected. Early submittal for the boring permits is critical for the project schedules.
- Maintaining accessibility to surrounding communities and implementing a two-phase construction approach to maintain the existing traffic.
- Developing detailed Temporary Traffic Control Plans (TTCP) for safe and efficient traffic and pedestrian movement.
- Identifying and temporarily relocating existing bridge-supported utilities, as necessary.

For Bridges with low Average Daily Traffic (ADT) and Average Daily Truck Traffic (ADTT), to optimize cost and efficiency, we propose a Florida Slab Beam (FSB) system for replacements. In addition to implementing strategies minimizing public disruption mentioned above, we propose fewer spans with increased span length to optimize cost and construction efficiency. We will consider placing the new end bents behind the existing seawalls, which will slightly increase the bridge length but prevent interference with the environment during the construction. New seawalls will be placed under the new end bents and will act independently of the existing seawalls. Reduced bents in the water minimize the impact to the environment and hydraulics and will facilitate the permitting process both for geotechnical boring and final construction. Proposed span configuration and FSB type will be finalized in the BDR stage and carried into the final design phase.

For bridges in close proximity to residential areas, minimizing vibration and noise is a top priority. To address this, we propose drilled shafts, auger cast piles, or micropiles as foundation solutions to reduce vibration and noise significantly, mitigating community concerns and potential city liability. To maintain traffic in bridge replacement projects, existing bridge will be removed in phases as a part of phased construction processes. Use of driven piles for the new bridge construction will have impact to the existing pile foundation and affect stability of the existing foundation. For bridges in a marine environment, we will further investigate and select the optimal materials including stainless steel, GFRP, and concrete admixtures to enhance its performance against corrosion, based on the experience we have from our current Venetian Causeway bridge replacement for DTWP Miami-Dade County.

## Bridge #865727 Replacement



This bridge crosses over TRANAHAN LAKE and consists of a four-span continuous steel beam superstructure with open steel grating and a concrete pier and abutment substructure. The bridge is 88 feet long and off the NHS with low ADT. It provides the only access to the community on the north side.

### Overall for standard Bridge Replacement over water bodies we ensure:

- Use of corrosion resistant materials for bridge durability.
- Use drilled shafts, auger cast piles, or micro piles for the foundation upon careful assessment of existing conditions of the bridge.
- Implement two-phase construction for MOT.
- Keep existing utilities in place, with temporary support during construction.

Limiting road closure reduces the detour length and potential conflicts that additional traffic movements. We will meet with Fort Lauderdale city staff to understand what outreach has already been conducted and what tolerance the residents and the city have for the continued duration of the road closure. Our contract administration team will be working with the contractor to identify any potential opportunities for early completion throughout the construction.

Preliminary bridge design calculations will be performed and preliminary roadway and bridge drawings will be developed for use in completing geotechnical borings, traffic control plans, and public involvement. We will present this preliminary design to City staff for concurrence before proceeding with the full design.

Alternate structure types and span configurations will be evaluated during design and presented in the Bridge Alternative Study for consideration by Department. During evaluation, issues and concerns will be identified for alternates and solutions will be proposed. Each option will be evaluated for constructability concerns.

**As alternates are evaluated, more detailed analyses will allow for identification of preferred right-of-way options. The completion and review of bridge designs are accomplished in the following phases: BDR , 90% Substructure Submittal , 90% Structures Plans, 100% Structures Plans.**

**Structural designs are developed under the direction of the Structures Design Office (SDO) and the District Structures Design Offices (DSDO). Bridge design will be in accordance with:**

- FDOT Bridge Design Manual and Bridge Design Memorandums
- The Structures Manual
- The Standard Plans
- The AASHTO-LRFD Bridge Design Specifications as referenced in the Structures Manual
- Applicable FHWA Directives
- Other criteria as specified by the Department

Design, preliminary plans, right-of-way plans, and final construction plans will be prepared for City of Ft Lauderdale's selected alternative. For the selected alternate, constructability reviews will be performed for preliminary, and right-of-way plans, and any recommendations will be presented. Designs and plans will undergo a thorough QA/QC check for accuracy, completeness, and conformance to the latest FDOT practices and procedures. Final bid documents including engineer's estimate and project special provisions will be prepared to accompany final construction plans.

Our contract administration team will continuously work with our designers to identify additional opportunities for early reduced contract time and completion through constructability reviews during the design phase.

Before beginning this work, we will participate in a scoping meeting with the City. This critical meeting will define the expectations for the development of our agreement. We would look to formalize the agreement as quickly as possible to make sure we have ample time to complete the project in accordance with any municipal funding agreements you may have in place.

**We will develop the traffic control plans and work with the City to perform any public outreach desired.**

We believe public outreach is essential to residential buy-in for the detour. We will provide the City with weekly progress updates and/or create our own site where residents can view the progress.

**Our erosion control plans will account for the project's relationship to the stream.**

Our CEI erosion control team will perform and document all inspections as required by NCDEQ with the contractor. This close coordination is the best way to keep the project clean.

Preliminary cost estimates will be developed, and historic and natural resource data quantified for environmental analysis of the project corridor. The design team will use all this information to prepare preliminary plans to take advantage of unique opportunities while minimizing impacts and reducing construction costs. The information supporting the recommended improvements, including all design assumptions, will be presented to City staff and FDOT (if applicable) for review.

## TECHNICAL APPROACH – DATA COLLECTION & SURVEYING



GPI will perform control surveys, and topographic surveys using terrestrial scanning (lidar) and traditional survey, underground utility investigation (SUE) surveys, including quality Levels A and B, drainage surveys, as well as determination of right-of-way lines, subdivision lines, and recovering of the historical baseline of survey. Prior to obtaining field verified survey information, GIS data may be used to identify sensitive areas within the project design limits and provide a better understanding of site opportunities.

## Engineering/Design Surveys

---

GPI has a vast experience on preparing 3D design surveys for the engineering/design process. All of our 3D surveys are completed using remote sensing with laser scanning.

## Control Surveys

---

Our team is experienced on establishing primary horizontal and vertical control. The project control will be established on North American Datum of 1983 (NAD 83) and on North American Vertical Datum of 1988 (NAVD88). Horizontal control will be established by performing GPS observations, while vertical values will be obtained by completing a double observation digital level run.

## 3D Design Survey Approach

---

Depending on project needs, our team will propose the best survey approach to collect the 3D features. GPI Geospatial owns and operates all existing lidar platforms---from fixed-wing aircraft to perform the topographic survey of a large corridor, to static laser scanners for the 3D modeling (BIM) of seawalls, bulkheads, and bridge and water/wastewater structures.

## Boundary Survey

---

GPI has experience on the preparation of boundary surveys and sketch and legal descriptions. We are familiar with the Broward County Property Appraiser and Clerk of the Court websites to retrieve the most updated recorded information, including recorded plats and deeds. We will contact the FDOT District 4 right-of-way group to request existing right-of-way maps, maintenance maps, control survey, or any other documents to support the determination of boundary and/or right-of-way lines.

## Subsurface Utility Engineering

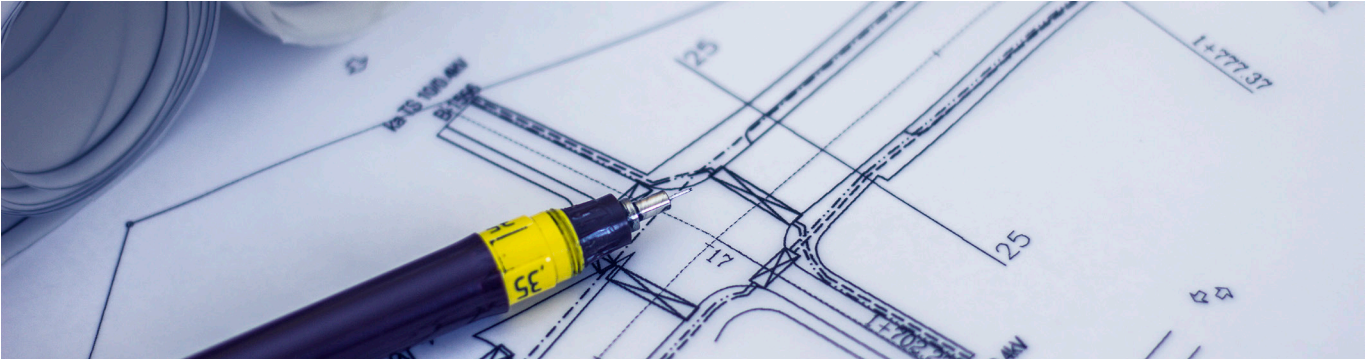
---

Our team will contact 811-Sunshine to request design tickets for the project areas. We will perform quality Level B utility designation according to the American Society of Civil Engineers (ASCE) for the project areas and will use GPR and electromagnetic equipment to designate and mark all underground utility lines in the areas where improvements are proposed. The lines will be marked using the industry-standard color code. The marked lines will be surveyed and mapped into the project survey files. When conflicts between the proposed improvements and existing utilities are identified, our team will perform vacuum excavation test holes (quality Level A) to safely expose the underground utility and obtain its XYZ information, as well as its diameter, material, depth from surface, direction, and identify ownership. A test hole report will be prepared for each excavation, and a table of verified utilities will also be included as part of the deliverable. In addition, the survey file for the project will be updated with the horizontal location of the test holes.

GPI Geospatial will prepare and submit the signed and sealed map of topographic survey for the entire corridor, which will combine the 3D features and elevations, as well as the baseline of survey, right-of-way lines, and the underground utility lines. All survey efforts will comply with Florida Statutes (Chapters 177 and 472, F.S.) and applicable rules in the Florida Administrative Code (Rule Chapter 5J-17, F.A.C.).

GPI is familiar with local standards for surveying and mapping; we currently have a continuing services contract with FDOT District 4 and a district-wide photogrammetric contract with FDOT District 6, under which we have performed multiple geodetic (control) surveys, remote sensing (terrestrial and aerial) surveys, as well as aerial photography and aerial photogrammetry for roadway design projects.

## TECHNICAL APPROACH – ROADWAY



Structural engineering projects, such as bridge replacements, seawall rehabilitations, and other miscellaneous structures often result in necessary improvements or incidental damage to adjacent roadways. Ensuring proper roadway design and restoration is critical to maintaining safety, functionality, and longevity. Prior to initiating the design phase of any structural or roadway project, a comprehensive pre-design assessment is essential. This assessment includes a review of survey data, a geotechnical evaluation, and site visits.

Bridge replacement projects may require significant roadway modifications to ensure safety, accessibility, and efficient traffic flow. These changes involve realigning existing roads, improving structural support, and integrating temporary detour routes to minimize disruptions. Proper planning and design considerations are essential to maintain connectivity and enhance long-term infrastructure durability. For each of the three bridge replacement services under this contract, the existing roadway will be analyzed for potential impacts. Items to be assessed include but are not limited to condition of the existing approach slabs, pavement life, drainage and erosion control, pedestrian facilities, pedestrian handrail and guardrail connectivity, and ADA compliance. In addition, bridge replacement may require horizontal and/or vertical realignment of the existing roadway.

Roadway work may include milling and resurfacing, sidewalk and curb replacement. Further analysis of each bridge will be required to fully identify all impacts to the existing roadway and the extent of work that would be required for the replacement of each bridge.

## TECHNICAL APPROACH – MOT & TTCP



We will develop the traffic control plans and work with the City to perform any public outreach desired. We believe public outreach is essential to residential buy-in for the detour. We will provide the City with weekly progress updates and/or create our own site where residents can view the progress.

Maintaining traffic flow and accessibility throughout the construction process is a critical component of any infrastructure project. For the replacement of the Bayview Drive Bridge, a well-structured Temporary Traffic Control Plan (TTCP) will be developed to ensure safe and efficient movement of vehicles, pedestrians, and emergency responders. This plan will address potential disruptions, optimize detour routes, and provide clear communication to all affected parties.

**The Temporary Traffic Control Plan (TTCP) will implement a two-phase bridge replacement strategy, allowing traffic flow throughout construction.**

This strategic phased construction approach ensures continuous island access while minimizing disruptions, maintaining safety, and facilitating emergency response throughout the bridge replacement process.

To further mitigate the impact on the community, a comprehensive Community Awareness Plan will be implemented. This will include public notifications, construction alerts, and using dedicated community channels for updates.

Additionally, coordination with stakeholders, local businesses, and emergency services will be a priority to ensure seamless operations. Emergency response teams will be kept informed of detour plans, and provisions will be made to maintain response times in case of an incident. By integrating a strategic traffic control plan, proactive community engagement, and effective stakeholder coordination, the construction phase will proceed smoothly while minimizing inconvenience to residents and ensuring overall project success.

## TECHNICAL APPROACH – GEOTECHNICAL

The replacement of existing bridges overwater in the residential communities of Fort Lauderdale requires careful geotechnical consideration due to the region's unique subsurface and environmental conditions. The area is characterized by shallow groundwater levels, coastal soil deposits consisting of soft/highly compressible organic soils, and variable fill materials, which can significantly impact the selection and performance of foundation systems. Subsurface investigations typically encounter layers of loose to medium-dense sands, soft clayey soils, peat, and, at greater depths, more competent sands or weathered limestone. These conditions present challenges related to bearing capacity, settlement, and potential long-term consolidation, particularly if shallow foundations are considered. The environmental classification in the bridge areas is classified as extremely aggressive based on FDOT criteria given their relatively close location to ocean and high chloride content in the water.

Given these constraints, deep foundations are generally recommended to bypass unsuitable near-surface soils and transfer structural loads to more stable layers at depth. Additional geotechnical concerns include lateral load resistance due to water flow and potential vessel impact, as



well as scour potential around the foundations, especially during storm events or tidal surges. Construction methods must also account for access limitations, vibration sensitivity in residential areas, and the need for temporary dewatering or cofferdam systems. Deep foundations that do not cause or utilize vibrations means and methods for their installation —such as augercast in place concrete piles, micropiles or drilled shafts (using non-vibratory methods of casing installation) are preferable. The feasibility of using precast prestressed concrete driven piles will also be considered considering the use of preforming measures and 100% dynamic load testing to minimize the amount of pile driving and hence vibrations on surrounding properties.

A detailed geotechnical investigation and laboratory testing program, is essential to assess soil properties, perform geotechnical analyses and support bridge foundation design. Additionally, close coordination with structural and environmental teams will also be required to ensure that the bridge replacements are both safe and sustainable within these sensitive coastal environments. Special measures including corrosion resistant concrete and steel reinforcement will have to be considered for the substructures and superstructures given the extremely aggressive conditions of the sites.

Tierra South Florida has highly qualified team that has worked in multiple projects in Florida. Based on our experience in this area, the subsurface typically consists of granular soils followed by varying mix of sand, limestone, and cemented sand. Based on our review of the Broward County Future Conditions 100-year flood map 2060, the 100-year flood elevation in this area varies from about el +4.5 to el +7.5 (NAVD88).

#### **Bridge Specific Anticipated Geotechnical Challenges:**

- Limited working space.
- MOT requirements for pavement cores and borings
- Utility coordination.

**Cores and borings will need to be performed with MOT. Field work will need to be coordinated and performed at times and locations that will minimize impact to residents.**

18-inch and 24-inch prestressed, precast square concrete piles are typically used to support these bridges. Bridge piers may be close to houses where vibration/settlement may be a concern. Predrilling of pile holes will be considered to minimize vibration. 100% PDA will be considered to reduce pile loads. Alternate foundation types such as drilled shafts (with casing installed via non-vibratory methods), H-piles, or micropiles will also be considered in these areas.



## **Vibration and Settlement**

The proposed construction is in an urban area and the new foundations are expected to be between 20 and 50 feet away from the existing bridge foundations.

### During construction, the following procedure will be followed to protect existing structures:

- The existing facility and bridge structures located adjacent to the right of way will be monitored for vibration and settlement for the duration of piling operations in accordance with Section 108 of the FDOT Standard Specifications.
- Prior to construction, the facilities/houses within the monitoring limits will be monitored to establish a baseline vibration level.
- Predrilling of pile holes will be considered to minimize vibration to existing adjacent structures.
- 100% PDA will be considered to reduce pile loads and to minimize vibrations.
- Alternative foundation types such as drilled shafts (with casing installed via non-vibratory methods), H-piles, or micropiles will also be considered.

## Pavement Evaluation

Subsurface investigation including pavement cores and laboratory testing will be performed to investigate the pavement section. A new pavement section can be designed depending on the design ESAL (Equivalent Single Axle Load) provided by the Civil Engineer. Potential cost-saving alternatives will be evaluated. These alternatives will include evaluating the use of geogrid/geotextiles and/or using Highly Modified Asphalt (HiMA) containing high polymer binder.

## TECHNICAL APPROACH – ENVIRONMENTAL, PERMITTING AND H&H APPROACH

When the data assembly is complete, a full review and site analysis will be performed to identify appropriate areas for proposed improvements. Our review will include a geotechnical report that details foundation and earthwork recommendations. Our team will run the hydrologic analysis and complete the environmental permitting, which will drive the design.

Through the successful execution of many marine structural projects in South Florida by current staff who each have more than 25 years of relevant experience, including bridges, shoreline stabilization, stormwater infrastructure, marinas and piers, Moffatt & Nichol has gained a keen understanding and awareness of federal, state, county and local permitting requirements. Each project is unique -- based on the location and scope of construction activities, a permit matrix will be developed early in the planning process to identify and track the progress of all required permits. Key recommended action items, decision points and milestones will be identified at the beginning of the project and discussed with the City throughout the project, as appropriate. Our experience allows us to anticipate the information the agencies will require and our approach is to make the permit application review processes as straightforward as possible for agency staff. Our excellent, long-standing relationships with South Florida environmental permitting agency staff further support our effectiveness with managing the required permitting processes and we are diligent to follow up to efficiently address agency requests for clarification and additional information.



Our experienced environmental/permitting staff will support the development of an appropriate project-specific data collection scope of work. We strongly recommend and typically conduct meetings early in the project to confirm agency-specific requirements and any potential items of concern. The value of these discussions is enhanced by our experience which allows us to ask the right questions and proactively discuss ways to overcome any potential challenges to the permitting process, including preparation of Environmental Assessments, drafting Section 7 protected species consultation documents, development of project site/design alternatives analysis and production of mitigation plans. We are adept at preparing comprehensive environmental permit applications and supporting documentation with all relevant agencies including the U.S. Army Corps of Engineers (USACE), Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), Florida Department of Transportation and Broward County.

Moffatt & Nichol environmental project managers have experience with bridge projects in South Florida tidal waters and can address completion of appropriate biological assessments to demonstrate compliance with regulatory agency environmental impact avoidance, minimization and mitigation criteria. Staff have extensive experience securing environmental permits for a projects in a variety of South Florida marine habitats, including those with unavoidable impacts to seagrass and coastal wetlands which require mitigation.

Moffatt & Nichol is familiar with the State exemption that can cover certain bridge replacement activities pursuant to Section 403.813(1)(l), Florida Statutes, and Section 62-330.051 Florida Administrative Code. For activities which do not qualify for exemption, staff have a broad range of experience negotiating General Permit and Individual Environmental Resource Permit authorizations with both the SFWMD and FDEP.

The USACE can authorize bridge replacements which meet Nationwide 14 qualification requirements, which include no dredge or fill and no substantial water quality or listed species issues. If a project requires higher-level federal authorizations, M&N staff also have extensive experience negotiating Letters of Permission and Individual Permits.

**The type of environmental document required will likely be a Categorical Exclusion (CE).  
The team is very experienced in the document preparation and agency coordination  
necessary to complete the CE efficiently and successfully satisfy the NEPA requirements.**

Construction methodologies will be developed on a project-specific basis to provide assurances related to compliance with State water quality criteria and avoidance of impact to protected species in support of compliance with the Endangered Species Act and state/county permit conditions.

Our goal is to achieve a No-Rise, the design alternatives may include lengthening the bridge, raising the grade while maintaining the low chord, and others. After finalizing the design, the H&H engineer will submit the stamped No-Rise letter to the City, and any additional community coordination needed will be completed at that point. Deliverables for this portion include, Stamped H&H Report, including Project Summary ,Correspondence, Site Inspection Report with Pictures, Hydrological & Hydraulic Analysis, Erosion & Scour Analysis or Recommendations (if applicable), Conclusions & Recommendations, Stamped No-Rise Letter (if applicable)

## TECHNICAL APPROACH – SIGNING AND PAVEMENT MARKING



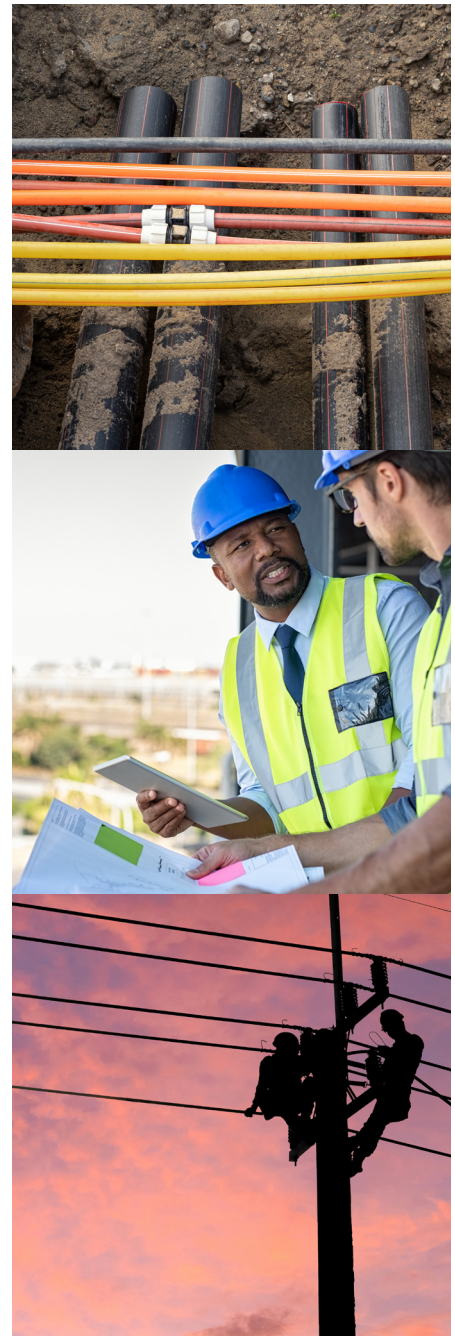
HBC will detail a well-designed signing and pavement marking (SPM) plan is essential for ensuring safety and efficient traffic flow during and after a bridge replacement. Temporary signage will include advance warnings, detour guidance, work zone safety signs, and pedestrian detour markers, while temporary pavement markings will define lane shifts, crosswalks, and traffic flow adjustments if necessary. Once construction is complete, permanent signage and markings will be installed per the Manual on Uniform Traffic Control Devices (MUTCD) and local standards, including regulatory signs for speed limits, weight restrictions, and clearances, as well as lane striping, stop bars, and crosswalks using high-visibility materials. Reflective markers and ADA-compliant pedestrian features will enhance safety, while guide signs will ensure seamless navigation. Proper implementation of these elements will minimize disruptions, enhance visibility, and provide a smooth transition to the new bridge infrastructure. For all additional miscellaneous structural work, SPM services will be provided as needed to ensure the roadway is restored to pristine condition, maintaining safety, durability, and compliance with design standards.

## TECHNICAL APPROACH – HBC’S APPROACH TO UTILITY COORDINATION & DRAINAGE

HBC understands that the City of Fort Lauderdale (City) is soliciting qualified, experienced, and licensed firms to provide professional engineering consulting services for RFQ/Event# 449 Miscellaneous Structural Engineering Services, Continuing Services Contract. In addition to the miscellaneous services that may be assigned via Task Work Orders (TWOs) under this contract, the City is proposing the replacement of three bridges. Bridge over Longboat Inlet (Bridge ID #865708) include AT&T Distribution. HBC is intimately familiar with all the UAOs specifically, AT&T Distribution (SBF23), Broward County Traffic Engineering (BC1338), City of Fort Lauderdale (VDL910), FP Broward City of Fort Lauderdale (CFL910), Comcast Cable (CC1279), and TECO Peoples Gas South Florida (PGSND). HBC is also aware of the delicate nature and critical aspect of utility coordination for TECO Peoples Gas South Florida (PGSND), which has facilities in two of the three bridge replacement projects.

HBC’s utility coordination efforts begin with creating a Sunshine 811 design ticket for each project and initiating early and proactive communication and collaboration with all UAOs and stakeholders to coordinate the placement, adjustment, relocation, or protection of their respective utility facilities for the three proposed bridge replacements, as well as all Task Work Orders (TWOs) assigned under this contract. An initial utility contact letter will be emailed to all UAOs requesting their respective color-coded utility markups on HBC’s preliminary design plans, as-built plans, and/or drawings, as well as a Utility Disposition Form (UDF) for UAOs declaring no facilities within the project limits. A Utility Conflict Matrix (UCM) identifying utility conflicts will be sent to UAOs for confirmation. Additional communication with all UAOs will occur during each design phase review. A Utility Work Schedule (UWS) or a UDF declaring no facilities or no conflicts will be obtained from each UAO before the biddability submittal.

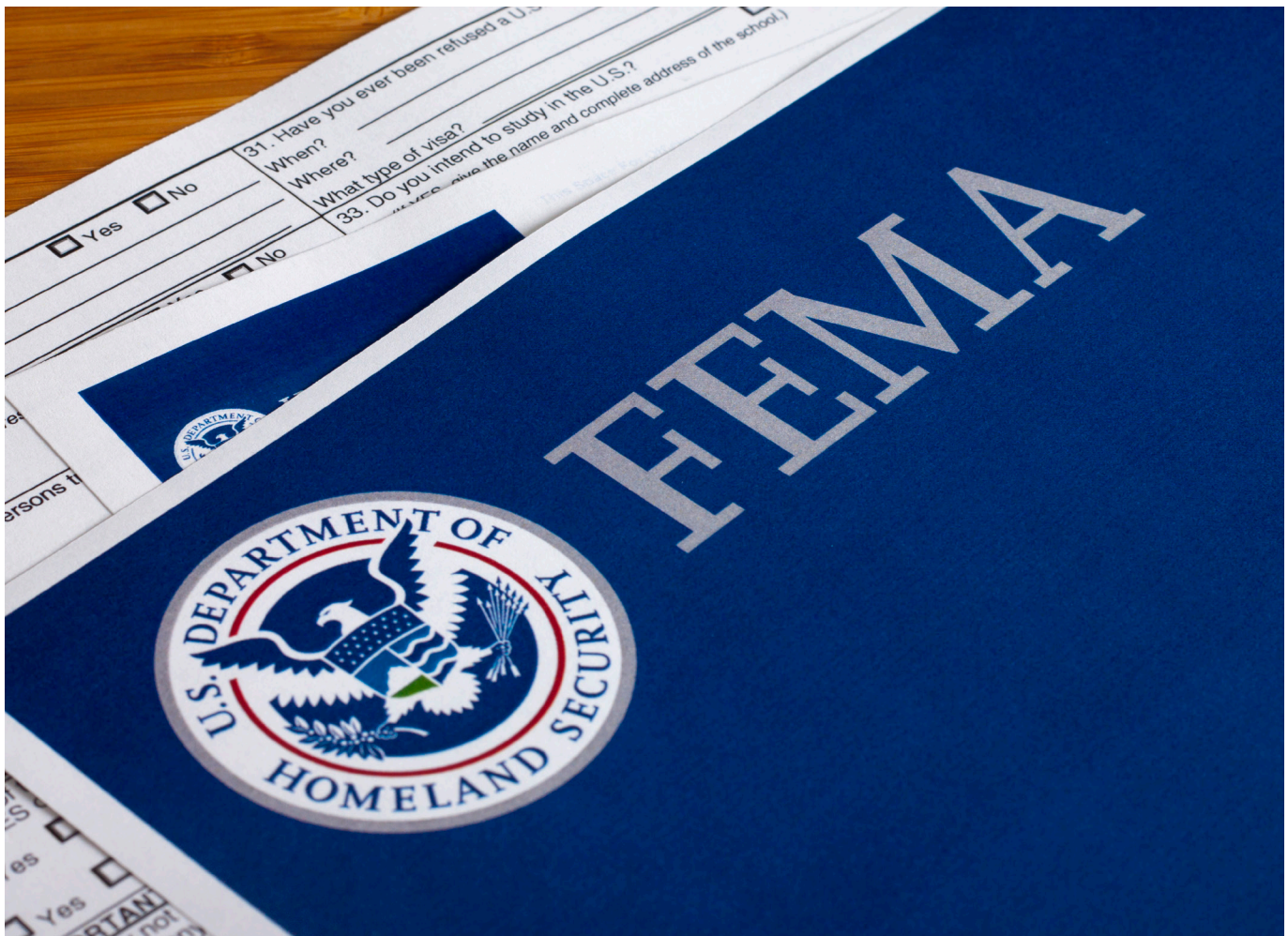
A licensed surveying and mapping subconsultant will provide all vertical and horizontal clearances via a Subsurface Utility Engineering (SUE) survey



and evaluation. This will provide information enabling HBC to work around, adjust, relocate, or protect existing utilities without damage or service disruption. All UAOs affected during construction will have access to the project site before and during construction for inspection to ensure proper utility identification or allow routine maintenance of their facilities. To ensure the operation and maintenance of roadways without interruption, utility adjustments during construction will be scheduled using the appropriate phases of our project-specific Temporary Traffic Control Plan (TTCP). HBC's phasing of the construction work will minimize risks, reduce construction time and cost, and protect existing utilities with early detection. Telephone, traffic signalization, water, sewer, electrical, gas, cable TV, and other utilities within the project limits will be maintained during construction. HBC will also establish a Risk Analysis Matrix to determine potential utility risks and develop a mitigation plan, which will be included in the design submittal to ensure that we meet the project schedule and eliminate or minimize delays, budget overruns, and frustration among UAOs and stakeholders.

**The project falls into the jurisdiction of the South Florida Water Management District (SFWMD),  
from which a permit will be required for construction.  
CURRENTLY, NONE OF THE THREE BRIDGES ARE PERMITTED WITH SFWMD.**

Since the project does not propose any new travel lanes or extra pavement, no stormwater treatment or attenuation will be required. The existing bridges all fall into the Federal Emergency Management Agency (FEMA) Flood Zone AE, which is categorized as areas with a 1% annual chance of flooding at given Base Flood Elevations (BFE) determined through FEMA's modeling and analysis. There are no regulatory floodways within the project limits. Since the project only proposes to replace the existing bridges in-kind, floodplain compensation should not be required. There are no wetland impacts associated with this project; this project does not drain to any Outstanding Florida Waters (OFW).



Proposed drainage work on the project will be largely the placement of scuppers if they are required. Also needed will be spread calculations, scour and erosion calculations and preventative measures, stormwater pollution preventive plans, bridge hydraulic modeling, and bridge vertical clearances. No proposed closed drainage system elements will be required for this project, as the existing configuration of the drainage systems are largely direct discharge to the water bodies the bridges allow passage over.

## HBC's Utility Coordination Experience in Broward County and the City



HBC is providing comprehensive utility coordination services successfully for the Florida Department of Transportation (FDOT) District 4 (D4) SR-7/US-441 Transit Corridor Improvements Projects, FDOT D4 SR-817/University Drive from Nova Drive to SR-84 Widening Project, Florida's Turnpike Enterprise (FTE) Southern Turnpike CCTV Upgrades System Wide Project, and City of Fort Lauderdale Riverwalk North Seawall Replacement Project. For the past 18 years, HBC has successfully provided professional engineering consulting services, including utility coordination, for various government and municipal clients throughout South Florida, and has developed positive working relationships with numerous project UAOs, Authorities Having Jurisdiction (AHJs), and stakeholders. HBC is also aware of the critical aspect of coordinating delicate natural gas utilities, which are present in two of the three proposed bridge replacement projects.



HBC implements best practices, such as avoiding utilities whenever feasible and following the three Cs: Communication, Cooperation, and Coordination. HBC will make sure all utility coordination activities and relocation work comply with local, state, and federal regulations, including FDOT's 2017 Utility Accommodation Manual (UAM) and the City's standards, specifications, and processes.

**HBC's proven utility coordination efforts ensure that each project's Utility Certification Package (UCP) is SUCCESSFULLY executed and delivered on time.**



## TECHNICAL APPROACH – NON LINEAR FINITE ELEMENT ANALYSIS

HBC Engineering provides exceptionally qualified personnel to perform the design and extensive analysis services including Nonlinear Finite Element Analysis. Our Senior Structural Engineer, Bunrith Heng was responsible for the structural analysis and performing nonlinear P-delta finite element analysis of steel structures using CSI SAP2000 software for various buildings. He also performed geometrically and materially nonlinear analysis of steel connections using component base finite analysis software CBFEA using IdeaStatica and has extensive experience in performing nonlinear analysis of soil foundation interaction, performing nonlinear crack section analysis of concrete slab to determine long-term deflection subject to nonlinearity such as the effect of crack concrete, shrinkage, and creep.

As the Senior Structural Engineer for the **Thru by Hilton Hotel** in Condado, Puerto Rico, Bunrith Heng performed the nonlinear structural analysis of an eight-story post-tensioned concrete building with an elevated car park. He conducted seismic and irregularity analysis using ETABS, designed reinforced concrete shear walls and columns, and performed nonlinear steel connection analysis using IdeaStatica. He also completed punching shear and stud rail design, foundation analysis, and coordinated post-tensioning data. This project required detailed evaluation of complex structural behavior and connection performance under dynamic loading.

For the **Element Hotel by Westin** in Grand Lagoon, Florida, Bunrith was responsible for the nonlinear modeling and analysis of a five-story hotel featuring CMU walls with post-tension slabs and hollow core plank systems. He performed nonlinear analysis of steel transferred beams and columns using SAP2000, conducted steel connection design using IdeaStatica, and led the structural design of masonry shear walls and concrete foundations using CSI SAFE. His efforts focused on ensuring compliance through nonlinear modeling and evaluation of joint response under loading.

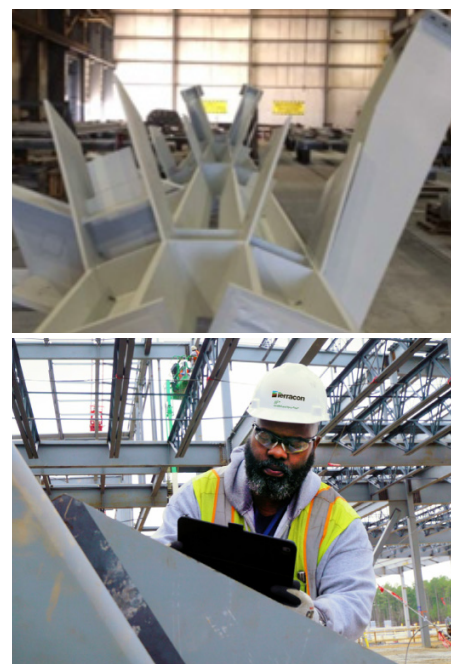
At the **Beast Code Office** in Ft. Walton Beach, Florida, Bunrith provided nonlinear structural analysis and design for a two-story office and data center with 50-foot composite steel joists, steel girders, and composite decking. He utilized ETABS for structural modeling, performed nonlinear connection analysis with IdeaStatica, and coordinated foundation and framing designs with Vulcraft. His work addressed the nonlinear behavior of long-span steel framing and ensured the structural system met performance requirements under service and design loads.

## TECHNICAL APPROACH – NON DESTRUCTIVE TESTING

Nondestructive Testing (NDT) encompasses a comprehensive suite of analytical techniques used to evaluate the properties of materials, components, structures, or systems for defects, discontinuities, or characteristic variations, without causing damage or impairing functionality. This approach is essential for stakeholders seeking to verify the quality and integrity of a project while preserving the performance and usability of the materials involved.

NDT offers significant logistical and economic advantages. Most equipment is fully portable, enabling on-site inspections at fabrication facilities or construction sites. This mobility facilitates rapid assessments, minimizes downtime, and helps prevent costly project delays.

Structural steel testing and observation is a highly specialized discipline requiring both advanced instrumentation and personnel trained in industry-recognized procedures. Inspections may be conducted during or





after erection, focusing on welded and bolted connections, as well as interfaces between precast elements and the structural frame.

Our team of steel inspection professionals is certified by leading industry organizations, including the American Welding Society (AWS), the International Code Council (ICC), and the American Society for Nondestructive Testing (ASNT). All testing procedures and equipment adhere to our rigorous internal Quality Management System (QMS) and comply with standards set by relevant accreditation bodies.

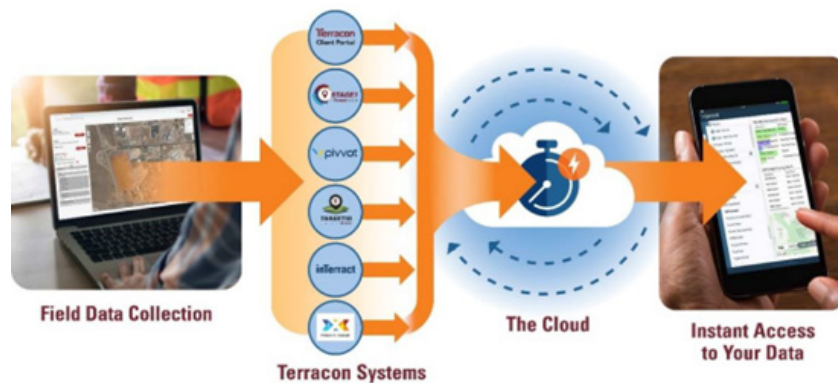
**Our specific Structural Steel and NDT capabilities include:**

- Field Erection Observations Testing
- Magnetic Particle Examination
- Visual Examination
- Ultrasonic Examination
- Third-Party Vendor/Supplier Audits
- On-Site Testing Services
- Welding Procedures/Welder Qualifications
- Fabrication Shop Monitoring/Inspection
- Seismic Weld Inspections (UT Certified per AWS D1.8 Annex F)
- Phased Array Ultrasonic Testing (PAUT)



Testing and observation can occur during or after the erection process for connections that are welded, bolted, or between precast elements and the structural frame.

**Real-Time Delivery**



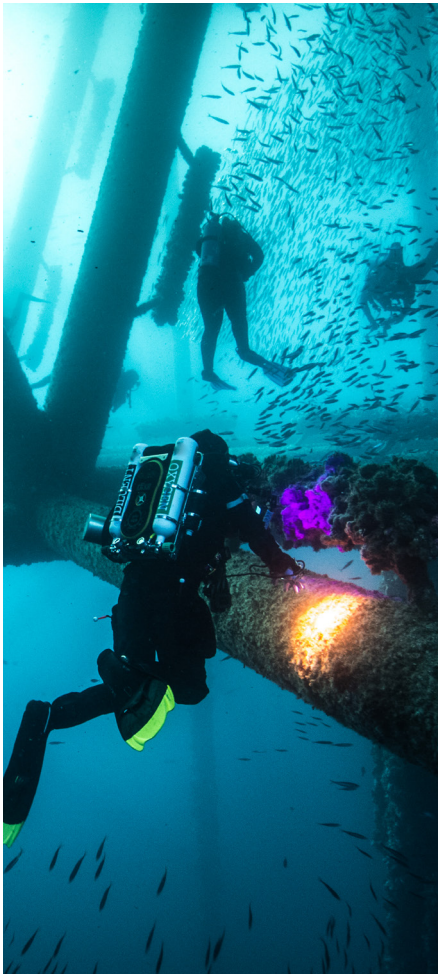
Having the ability to know what is happening on your project site in real-time means you and your project team are always well-informed. Portals and platforms display information on a visually intuitive and interactive dashboard,

allowing project stakeholders to view data almost instantaneously. This insight into the project throughout each day makes it easier than ever to resolve issues on the spot instead of waiting for the report to be delivered at the end of the project or after the field team has left the site. With data at your fingertips, real-time delivery gives you access to information from anywhere to make decisions faster, ultimately saving you time and money.

Real-time delivery keeps your data alive. We can send and receive data through mobile devices and sensors embedded in everyday objects. These platforms take information from what used to be a verbal conversation, and a field report sent days after the data was collected to immediate access to crucial information, including test status, progress, and outcomes from anywhere and at any time.

We have worked to seamlessly integrate real-time delivery into our systems and platforms to help streamline your projects. When information is integrated into a Terracon internal system, the information populates throughout each system and maximizes the power and accessibility of your data for brilliant, timely decision-making. We customize your client portal based on priorities, risk management needs, and project scope. Before your portal is activated, we assemble a client kick-off meeting to engage with your team and conduct training on how they can use the portal to access and filter data, retrieve or share reports and other information, and collaborate with our team in real time. We provide access to whoever can retrieve the data in the different formats needed.

Real-time delivery also enhances project quality control and efficiency. Our innovative and proprietary tools allow you to see if an area is or is not ready for construction and expose any outstanding deviations. Real-time delivery uses data to help decrease the number of design changes needed and enable more of a collaborative decision-making approach. Hence, you make informed decisions earlier in the site development process, which leads to significant savings over the project's lifespan.



## TECHNICAL APPROACH – UNDERWATER INSPECTION SERVICES

We conduct several types of underwater inspections, including culvert inspections, joint inspections, and pipe-to-structure connection inspections. Regardless of the inspection type, our preparation and setup process remains consistent and follows strict safety and operational protocols.

Every inspection begins with the setup of dive equipment and the implementation of all required safety measures for a penetration dive. Before any entry is made, our team reviews the Job Safety Analysis (JSA), identifies site-specific hazards, and confirms that all crew members understand their roles and responsibilities. We then measure and mark the inspection area to ensure accurate tracking and documentation.

One team member manages communications, staying in contact with the diver and documenting findings in real time. A second team member tends the diver, maintaining the umbilical and tracking footage to monitor the diver's location.

The diver, equipped with a flashlight and GoPro, swims through the pipe, visually inspecting joints, material surfaces, and connections. The diver also records material types and measures buildup or other interior conditions.

If damage or anomalies are found, the team captures video for further evaluation. A comprehensive report is always produced, including detailed observations, measurements, and findings. Full-length video documentation can be provided upon request.

# 5.B | PROJECT MANAGEMENT AND QUALITY CONTROL

The Project Manager, Sreelatha Nandivada, MS, PE, will work with the Department (DSDE) as needed in establishing a schedule and developing a detailed schedule for the project to include milestones and interim deliverables. She will schedule weekly progress meetings to facilitate good communication among the team and verify progress. Any issues affecting design, schedule, or budget will be dealt with proactively and brought to the Department’s attention immediately. The team will coordinate with DSDO to establish design criteria based on environmental, ROW, bridge, roadway, traffic, and utility consideration for the project. Public and stakeholder input and familiarity with FDOT procedures, policies, design preferences, and requirements (as outlined within), will guide the environmental evaluation, permitting requirements, project design, and development of preliminary ROW and construction plans and specifications.

Following the input received at the Task Kickoff Meeting, our team will work together to develop internal Quality Assurance Plan (QAP) specific to this task order. The QAP and checklists will be designed to ensure that all of the deliverables will conform to accepted design practices and comply with FDOT, AASHTO, and other industry-accepted standards. This QAP will outline the procedures and responsibilities of each person for each step of this independent design review. These steps will include the Quality Control Review of the Plans, the High-Level Review of the Plans and Bid Documents, and Design Quality Review of the Superstructure and Substructure Design. It will establish the format for which Design Scoping Reports, field reports and meeting minutes will be developed and submitted. The QAP will also outline the procedures for filing Design Scoping Reports and Contract Modifications.

Based on the bridge analysis the general attributes are determined for the bridges. The specific attributes of the bridge will be defined in our BDR. A location Hydraulics Report will be prepared in conjunction with the bridge analysis. Conceptual drawings will be developed suitable to the uniqueness of the site.

Prior to BDR we will coordinate with city on Environmental and site considerations, wildlife connectivity, endangered species information, Vertical and horizontal clearances (existing and proposed), Disposition of existing structure. Vertical and horizontal geometry, Typical section, Identification of historical significance of bridge and surrounding structures. Aesthetic level for bridge and bridge approaches, Location Hydraulics Report, Bridge deck drainage considerations, Stream bottom profile, Conceptual geotechnical data





Design, preliminary plans, right-of-way plans, and final construction plans will be prepared for City of Fort Lauderdale's selected alternative. For the selected alternate, constructability reviews will be performed for preliminary, and right-of-way plans, and any recommendations will be presented. Before beginning this work, we will participate in a scoping meeting with the City. This critical meeting will define the expectations for the development of our agreement. We would look to formalize the agreement as quickly as possible to make sure we have ample time to complete the project in accordance with any municipal funding agreements you may have in place.

---

**Our contract administration team will continuously work with our designers to identify additional opportunities for early reduced contract time and completion through constructability reviews during the design phase.**

---

Design Development (90%) drawings (Right-of-Way Plans) will be prepared and presented for review and comment to the City, FDOT (if required), and any regulatory agency whose approval is required for the development of the project. The final bridge design will be performed in accordance with the current AASHTO LRFD Bridge Design Specifications using Leap Bridge Concrete for cored slab superstructure and substructure design. If a steel superstructure is explored as a preliminary or final structure type, MDX will be utilized for beam design. We will present a proposed design to City staff for concurrence before proceeding with final design and 100% plans.

## Quality Control

---

Considering the entire project team's needs and capabilities, Open Roads Designer, will be used to develop the model also for conducting BIM Reviews. In our reviews we make sure that our plans maintain Conformance to CADD standards, Completeness to project scoped expectations Consistency in the accurate relativeness with the interdisciplinary information and standards.

A 5-Step Review Process of Origination, Checking, Backchecking, Updating and Verifying will be carried out with color scheme for the QC stamp described in section 124.1.2 of FDM.

A BIM review Log will be developed and submitted with each phase submittal of the BIM files.

## Right-of-Way Acquisition

---

Acquisitions can begin after approval of the BDR. Provisions for access to property near the end of bridges and adjustments to avoid costly Right of Way takings shall be resolved. We will provide the necessary Exhibits for the City to acquire Right-of-Way (Margin) and/or Temporary Construction Easements (TCE).

## Final Construction Plans

---

Once the City has approved 90% design plans, our team will prepare the final Construction Drawings. As our team prepares the final construction drawings, we will engage our construction experts to guide the project phasing to permit maximum public access with minimal impacts on the overall cost. Bid documents will also be

produced including the final construction specifications, engineer's estimate, and contract times.

## Final Permits, Plans, Specifications, & Estimates (PS&E)

Finally, all permits and approvals will be presented to the City after they have been secured. If the need presents itself during the process, any privately owned utility requiring construction and/or relocation will be identified, and its construction will be coordinated. Our utility coordination and the right-of-way negotiations should proceed in tandem. Our CEI team will be on hand to guide the utility relocation and keep the various utility companies in compliance with the permit.

## Bidding Process & Post Design Services

HBC is willing to provide post design services if requested. Our team will administer the bidding process. HBC personnel are experienced in assisting municipalities with the bid and award process and will assist the City with an advertisement responding to written addendums, bid opening, bid tabulation, and bid award recommendation. We will attend all pre-construction meetings as well as those regularly scheduled meetings throughout the construction phase, perform site visits when deemed necessary by the DEPARTMENT. We respond to all requests from the contractor within 48 hours. Responses include Requests for Information (RFI), interpretation of construction plans and documents, and engineering solutions to changed conditions encountered in the field leading to plan updates and changes to begin the communication process.

## Scheduling Methodology

Our approach to schedule management aligns with the City's goals for efficient and timely delivery of structural engineering services under individual Task Work Orders (TWOs). A centralized master schedule tracking all milestone dates and progress updates will be maintained and reviewed bi-weekly during internal production meetings. These updates will be shared with the City's Project Manager (PM) through regular status reports to ensure transparency.

During the initial schedule discovery phase, we ensure only applicable activities are included, eliminating unnecessary tasks and identifying opportunities to accelerate select TWOs. Where applicable, we bypass preliminary phases without compromising quality, while initiating critical tasks early to maintain momentum. Submittal phases will be scheduled with adequate intervals—typically three months—to allow time for thorough QA/QC reviews.

In cases of delay, a schedule recovery plan will be implemented to regain lost time. Our Project Manager, supported by experienced Task Managers, will coordinate closely with the City's internal departments and design teams to maintain positive float and meet all milestone deadlines. Weekly updates and closure of completed activities will ensure each project's progress is accurately reflected in monthly reports. This disciplined approach ensures timely execution across all project phases in compliance with City standards.

### **The following general approach will be followed for all TWO's related to plan development:**

1. Meet with the City's Project Manager to define the scope, objectives, and deliverables of each Task Work Order (TWO).
2. Review the TWO schedule to confirm feasibility within the contract term and adjust based on anticipated timelines and resource availability.
3. Conduct a risk assessment and assign a qualified team with the appropriate technical expertise based on the project scope and complexity.
4. Collect and review all existing documentation, including As-Builts, ROW maps, surveys, maintenance records, permits, GIS data, and prior studies.

5. Perform a joint field review with City staff to validate site conditions, clarify project objectives, and identify opportunities to reduce risk, simplify execution, and control costs.
6. Refine the scope of services and submit staff hour estimates for City review and approval.
7. Finalize and execute the TWO; receive official Notice to Proceed (NTP).
8. Revalidate and update the project schedule upon NTP issuance.
9. Submit a project-specific Quality Control (QC) Plan within 10 days of NTP.
10. Initiate utility coordination activities early to avoid schedule impacts.
11. Develop preliminary design documents (e.g., Basis of Design Report, typical sections, pavement design).
12. Prepare and submit permit applications, as required.
13. Coordinate with internal City departments, stakeholders, and agencies throughout the project.
14. Prepare and deliver construction documents and phase submittals per City standards.
15. Identify and execute any required Maintenance Memoranda of Agreement (MMOA) or Local Funding Agreements (LFA).
16. Secure necessary clearances from City departments and external regulatory agencies.
17. Conduct public involvement activities as needed, including meeting facilitation and stakeholder coordination.
18. Coordinate and secure license agreements, easements, and maintenance maps.
19. Prepare the specifications package, Technical Special Provisions (TSPs), and final cost estimates.
20. Keep the City's Project Manager informed via monthly progress reports, meetings, and regular updates detailing schedule, progress, and budget status.
21. Reconcile and return any unused funds to the master contract after project letting; issue new TWO for post-design services if required.
22. Provide construction support including responses to RFIs, shop drawing reviews, and revisions to plans as needed.
23. After final acceptance, reconcile any unused post-design funds back into the master agreement.

For non-standard TWOs, our CM will immediately assemble the needed staff and information to address the Village needs. Our commitment to you is that we are readily available to work on this contract from day one with no learning curve and will be available to meet for on-site meetings within 24-hour notice.



# 5.C | FIRM'S CURRENT WORKLOAD

HBC is fully prepared to meet the City of Fort Lauderdale's needs for structural engineering services under this continuing contract. With a staff of over 65 professionals across our Florida offices, we have the capacity, technical depth, and flexibility to support multiple concurrent assignments while prioritizing the City's task orders.

We have conducted a thorough internal review of our current and projected workload and confirm that we have the availability and resources to immediately dedicate a qualified team to this contract. **Sreelatha Nandivada, MS, PE**, our proposed Project Manager, meets and exceeds the minimum qualifications outlined in the RFQ, with over 20 years of structural and bridge engineering experience. She is fully committed to leading the City's projects and is available to begin work upon contract award. Her leadership ensures consistency, quality, and accountability across all task orders.

Our project delivery framework is centered on resource efficiency, responsiveness, and quality control. We conduct weekly internal resource planning and production meetings to monitor workload, reallocate staff as needed, and ensure that each project receives the appropriate level of support. This system enables us to meet tight deadlines, adapt to changing scopes, and deliver high-quality results without delay.

HBC also applies a rigorous quality assurance and quality control (QA/QC) process throughout each project phase. Our team proactively identifies and resolves potential issues to maintain project momentum and prevent delays or rework. We are experienced in delivering full-scope services under continuing contracts, including planning, permitting, utility coordination, constructability review, public involvement, and CEI support.

**With a proven history of on-time, on-budget performance and an experienced team ready to mobilize, HBC offers the City a reliable and responsive partner.**

Our structure, staff, and strategic management practices ensure successful execution of this contract while upholding the City's standards for technical excellence, public communication, and timely project delivery.

## Project Team Availability

Adebayo Coker, PE	80%
Sreelatha Nandivada, MS, PE	90%
Bunrith Heng, MS, PE	90%
Aneuris Hernandez, MS, EI	90%
KT Lin, PhD, PE	90%
Feng Liu, PE	85%
Chun Li, PE	90%
Hernan Lugo, MS, PE, CFM	90%
Adelbert Shaffer, PE	90%
Lawerence DeRose, PE	85%
Jacqueline M. Brower, PhD, PE	90%
Gary Cox, EI	80%
Alejandra Mendoza-Diaz, EI	80%
Shaune Rogers	90%
Hunter Payne	90%
Mauricio R. Gomez, EI	85%
Julia G. Grissett, EI	90%
Jade D. Bennett, PE	85%
Vanessa Benzecry, PhD, PE	90%
Todd Mohler, RLA, ISA, IA	80%
Natalia Barranco, RLA	90%
Esther Monzon Aguirre	85%
Melannie Gomez	90%
Oracio Riccobono, PE	70%
Adnan Ismail, PE	90%
Raj Krishnasamy, PE	85%
Kumar Vedula, PE	90%
Jose A. Lopez, PE	80%
Sonny Abia, PhD, PE	80%
Leandro Vazquez	90%
Frank Paruas, PSM	80%
Julio Delgado, PSM	90%
Keith B. DeLuca, Jr., IMSA II	90%
Edgar Diaz, MS, PE, PSM	90%
Teodoro Tefel, PE	80%
Osmin Ocon, EI	90%
Andrew Povost, AMPP SCCI, AWI CWI	80%
Christopher Soto, PE, RSO	100%
Michael Schawe, IMSA I	100%
Eugene Hunter, IMSA I	100%
Rodolfo Caceres, PE, IMSA I	100%
Claudia Rodriguez, PE, IMSA I	100%
Scott Smith, IMSA I	100%
Jeffrey Behari, IMSA I	100%
Luis Membreno	100%
Francisco Rodriguez	100%
Jay McGuinness, IMSA I	100%
Adrian Valdes	100%
Omar Sosa	100%
Gonzalo Barrera, PE	80%
Joseph Maceo, EI	90%
Claudia Bustamante, MS, PE	80%
Ynaja Juste, EI	90%
Moatz Saad, PhD, PE, PTOE, IMSA II	80%
Jeremy Braithwaite, IMSA II	90%
Gabriel A. Evilla Cano, MS	90%
Orlando Penate, PE, IMSA III	80%
Maikel Fiallo Nunez, PE	90%
Fernando Craveiro de Sa, PhD, EI	90%
Jose Vidal, AIA, LEED AP	80%
Vanessa Salinas	80%
Dinesh Dagly, PE (QA/QC Reviewer)	75%



HBC is currently managing a steady and well-balanced portfolio of projects, all at various stages of development—from early planning and design phases to construction and closeout, with many projects nearing completion by the end of the year.

As shown in the table below, HBC frequently serves as a subconsultant, supporting lead firms and agencies with specialized structural, civil, and construction engineering expertise. These active engagements include work relevant to this RFQ, such as structural inspections, bridge evaluations, seawall replacements, utility coordination, and preparation of construction documents.

With upcoming work thoughtfully scheduled and resource allocation carefully managed, HBC is well-positioned to take on contractual assignments under the **Structural Engineering Services Contract (RFQ Event No. 449)**. Our multidisciplinary team is prepared to deliver responsive and sustainable structural engineering solutions that align with the City’s needs.

Status	Project Name	HBC Prime or Subconsultant: Client	Begin Date	End Date (Expected)
Active	CE Downtown Intermodal Terminal (ST)	<b>Subconsultant:</b> AECOM	February 19, 2025	October, 2025
Active	Water Treatment Plant No. 2 Expansion	<b>Subconsultant:</b> Kimley Horn	February 18, 2025	October, 2025
Pending	Stormwater PM Support Services	<b>Prime:</b> City of Miami	January 27, 2025	2027
Active	Bike Immersion Study - TPO SMART STEP	<b>Subconsultant:</b> BCC Engineering	January 10, 2025	September, 2025
Active	El Car Wash Pompano III Queueing A	<b>Prime:</b> National Car Wash	January 21, 2025	September, 2025
Active	Project Management SAS WASD (PCTS 15365)	<b>Prime:</b> WASD	January 20, 2025	2027
Active	Staff Augmentation GIS Specialist	<b>Prime:</b> WASD	January 20, 2025	2027
Active	PNC2119168P1_1 CGA-08 N Andrew Ave NE 26	<b>Subconsultant:</b> Calvin Giordano & Assoc.	November 11, 2024	July, 2025
Active	PNC2119168P1_1 - Cypress Creek Rd	<b>Subconsultant:</b> Calvin Giordano & Assoc.	November 11, 2024	July, 2025
Active	PNC2119168P1_1 - FON Wiles Road CSD-SR7	<b>Prime:</b> Broward County/CGA	November 11, 2024	2026
Active	CCTV Southern Turnpike Upgrades	<b>Prime:</b> FTE	November 07, 2024	2026
Active	SR-708 Blue Heron Blvd. (Lighting)	<b>Prime:</b> FDOT D4	October 4, 2024	2026
Active	Structural Analysis Alton & Lincoln Rd.	<b>Subconsultant:</b> Choice Engineering Constl.	September 26, 2024	May, 2025
Active	STOF Miscellaneous Services	<b>Prime:</b> Seminole Tribe of FL	August 29, 2024	2029
Active	Four Points / EOC Connector Project	<b>Subconsultant:</b> OLC Architecture	August 20, 2024	April, 2025
Active	SR 93A Lane Closure Analysis	<b>Prime:</b> Gosalia Concrete Constructors, Inc.	August 13, 2024	2026
Active	Basin H1 Stormwater Improv. (B.G.)	<b>Prime:</b> City Of Belle Glades	August 7, 2024	2026
Active	Venetian Causeway Speed Study	<b>Subconsultant:</b> EAC	August 7, 2024	April, 2025
Active	CA961 TWO 11 Travel Time Validation	<b>Subconsultant:</b> Gannett Fleming	August 1, 2024	April, 2025
Active	US1 Overseas Highway MOT	<b>Subconsultant:</b> OHLA USA	July 30, 2024	March, 2025
Active	Traffic Impact Study Delaware Parkway	<b>Prime:</b> ROVR Development	July 18, 2024	2026
Active	Prof Serv for WASD Standards and Specif.	<b>Subconsultant:</b> Gannett Fleming	July 10, 2024	March, 2025
Active	Seminole Pratt Whitney Road: Orange Blvd	<b>Subconsultant:</b> Mehta & Associates	June 24, 2024	March, 2025
Active	CEI Services for Two Lime Slaking System	<b>Prime:</b> Miami Water and Sewer	June 24, 2024	2026
Active	Pompano Citi Center	<b>Prime:</b> Morgan Group, LLC.	June 6, 2024	2026
Active	GMX 30041-000.020 SR 878 LIGHTING	<b>Subconsultant:</b> GMX	June 17, 2024	March, 2025
Active	HWO Air Traffic Control Tower	<b>Subconsultant:</b> McFarland - Johnson, Inc	May 17, 2024	March, 2025
Active	PBC CSA#1_2022825-001_Boynton Beach Blvd	<b>Prime:</b> Palm Beach County	April 5, 2024	2029
Active	Improvements to Sanitary Trunk Sewer Van Scoy	<b>Subconsultant:</b> Jacobs Engineering Group	March 24, 2024	Awaiting Closeout
Active	QC Review for Weston Road	<b>Subconsultant:</b> CGA	March 24, 2024	Awaiting Closeout
Active	WASD William Lehman Causeway	<b>Subconsultant:</b> CHA Constl.	March 25, 2024	Awaiting Closeout
Active	Roof Evaluation of 22 Metrorail Stations	<b>Subconsultant:</b> AECOM	March 24, 2024	Awaiting Closeout
Active	Multiple Parks - 40 Years Recertifications	<b>Prime:</b> Miami Dade County Parks	March 20, 2024	2026
Active	Shorty's South Tower	<b>Subconsultant:</b> Atlantic Pacific Companies	March 20, 2024	Awaiting Closeout
Active	CEI Services PBC Annual Services Donald Ross Rd	<b>Subconsultant:</b> Mehta & Associates	February 20, 2024	Awaiting Closeout
Active	Wiles Rd Between SR 7 and I 95	<b>Subconsultant:</b> CGA	January 19, 2024	Awaiting Closeout
Active	Riverwalk N Seawall Replacement	<b>Prime:</b> City of Fort Lauderdale	January 19, 2024	2026
Active	Las Picuas WWTP CIP 3-15-9000	<b>Prime:</b> PRASA	January 19, 2024	2026
Active	Complete St improvements Boynton Beach	<b>Prime:</b> FDOT D4	January 15, 2024	2026
Active	PER for Elimination of Unibion, Morovis and Ciales WWTP	<b>Subconsultant:</b> CSA Group/ Puerto Rico	January 26, 2024	Awaiting Closeout
Active	Port Everglades Master/Vision Plan Update	<b>Subconsultant:</b> AECOM	Nov. 28, 2023	Awaiting Closeout
Active	East Palm Drive - Phase 2	<b>Subconsultant:</b> EAC Consultant	December 9, 2022	Awaiting Closeout
Active	Design Build Serv. Roadway Signs at Metrorail Stations	<b>Subconsultant:</b> Karmil	December 7, 2022	Awaiting Closeout
Active	PBC CSA#10 2022825-007 Atlantic Ave	<b>Prime:</b> Palm Beach County	February 26, 2024	Awaiting Closeout

## 5.D | TECHNOLOGICAL CAPABILITIES

At HBC, we recognize that delivering technologically advanced services to our clients requires a solid internal technological infrastructure. We maintain a robust network of computer-aided design (CAD), building information modeling (BIM), Geographic Information System (GIS) stations, and advanced project management software. These tools enable us to offer precise and efficient design solutions, ensuring all projects meet high standards.

**Design Software & Tools:** We utilize state-of-the-art CAD and BIM platforms, which allow us to develop accurate and detailed design models that can quickly adapt to project changes. These tools are integrated across our network, ensuring all stakeholders can access the most up-to-date project information.

**Project Management Systems:** Our sophisticated project management software allows us to track progress, allocate resources, and manage timelines effectively. This ensures that all project phases—from planning to execution—are well-coordinated and meet established milestones. Project managers have real-time access to cost data and performance metrics, helping us deliver projects on time and within budget.

**Geospatial & Surveying Technology:** To further enhance our precision, we employ advanced geospatial tools such as GIS and GPS for projects requiring surveying or subsurface utility engineering. These technologies provide accurate and reliable data critical for making informed decisions about design and construction.

**Drone Technology:** We are also pioneers in incorporating drone technology into our surveying and inspection processes. Our uncrewed aerial vehicles (UAVs) capture high-resolution imagery and 3D data, allowing us to conduct aerial surveys, monitor construction progress, and identify potential issues with unparalleled accuracy. Drone technology enables rapid data collection over large areas, reducing time and labor costs while improving project efficiency and safety.



**Centralized Networking:** HBC maintains a centralized data storage and networking infrastructure, ensuring seamless sharing of CADD files, GIS data, and other critical project information. Our system supports efficient drawing management and cross-disciplinary collaboration, ensuring that all team members across multiple locations can work cohesively.

**Custom IT Solutions:** HBC's Technology Solutions Group extends beyond core engineering services by offering specialized IT services such as database development, web design, and custom application creation. This enables us to enhance project delivery with tailored technological solutions that address each client's and project's needs.

By leveraging cutting-edge technology like drones, efficient project management systems, and centralized technological infrastructure, HBC is well-prepared to deliver innovative, cost-efficient, high-quality services.

# 6 | HBC'S EXPERIENCE ON CONTINUOUS SERVICES CONTRACTS

## MDC Buildings Report for Capital Repair Plans



<b>Address</b>
Miami-Dade County, FL
<b>Contact Person</b>
Jose Vizoso, (786) 552-4369, jose.vizoso@miamidade.gov
<b>Project Completion</b>
2022
<b>Total Cost of Construction: Estimated &amp; Actual</b>
Estimated Construction Cost: N/A
Actual Construction Cost: N/A

HBC led structural inspections and evaluations for MDC-WASD’s Capital Repair Plans at the Alexander Orr and Hialeah Water Treatment Plants. Scope included assessing buildings and structures such as sludge tanks, basins, clarifiers, and chemical storage areas. HBC developed standardized reporting templates per BCC Resolution No. 229-22 and prepared 82 detailed Building Inspection Reports. Services included structural and electrical assessments, as-built reviews, facility access coordination, and five-year capital repair cost estimates.

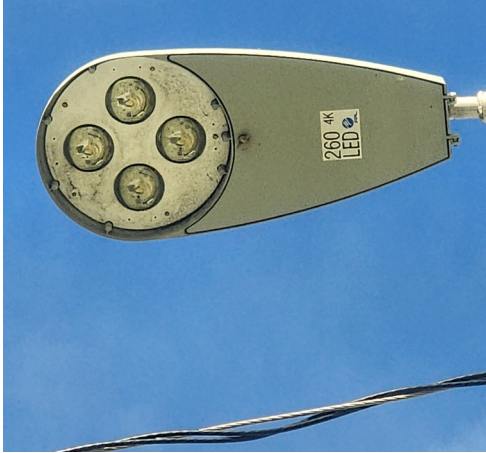
## George Bush Boulevard Bridge over the ICWW Bridge Replacement



<b>Address</b>
Palm Beach County, FL
<b>Contact Person</b>
Mike Sileno, PE, (954) 495-0566, msileno@hardestyhanover.com
<b>Project Completion</b>
2024 - 2025
<b>Total Cost of Construction: Estimated &amp; Actual</b>
Estimated Construction Cost: N/A
Actual Construction Cost: N/A

HBC provided traffic engineering services for the George Bush Boulevard over ICWW Bridge Replacement PD&E Project in Palm Beach County, involving full bridge replacement and detour to the East Atlantic Avenue Bridge. The scope included traffic counts, travel time, speed, and O-D data at 14 intersections. A 16x16 O-D matrix was developed to assess travel patterns. HBC reviewed signal timing and bridge operations and built calibrated Synchro and VISSIM models for current and future conditions. Forecasts from SERPM supported no-build and build analyses. For the build scenario, VISUM and VISSIM models evaluated detour impacts. The analysis included signal timing optimization, coordination, and safety reviews along US-1, SR A1A, George Bush Boulevard, and East Atlantic Avenue.

## Street Lighting System Design and Related Inspection (CEI) Annual Services on a Work Task Order Basis



### Address

Palm Beach County, FL

### Contact Person

Ali Sardinas, (561) 684-4030

### Project Completion

Ongoing

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: N/A

HBC is providing professional highway lighting design services under a continuing contract through multiple Task Work Orders (TWOs), each involving project management, design, and preparation of construction documents, including plans, specifications, reports, and CEI services. One near-complete TWO covers a 2.4-mile segment of Northlake Boulevard from east of Hall Boulevard to west of Coconut Boulevard, featuring new roadway lighting and intersection upgrades at Grapeview and 140th Avenue North. Another TWO includes lighting improvements along a 1-mile stretch of Royal Palm Beach Boulevard from M-Canal to south of Orange Boulevard. Both projects utilize Florida Power & Light (FPL) fixtures and proprietary Palm Beach County products, with lighting design analyses conducted in accordance with the Florida Greenbook. This work demonstrates HBC's capabilities in photometric analysis, lighting system design, and compliance with local and state standards to ensure roadway safety and visibility.

## FDOT Districtwide Scoping Reports



### Address

Miami-Dade and Monroe Counties, FL

### Contact Person

MD Hossain, PE, (305) 470-5342

### Project Completion

2023 - Ongoing

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: N/A

HBC is leading a regional initiative to assess and improve roadway conditions in Miami-Dade and Monroe Counties, focusing on deficiencies and identifying upgrades that enhance safety, multimodal access, and FDOT compliance. HBC is developing scoping reports for multiple corridors, incorporating engineering and environmental data, traffic analysis, and assessments of drainage, utilities, and structures. The project includes evaluating resurfacing and rehabilitation needs aligned with Complete Streets principles. Preliminary plans address pavement design, ADA upgrades, drainage solutions, and environmental reviews. HBC also coordinates stakeholder engagement and prepares cost estimates and right-of-way documentation. This work highlights HBC's expertise in multimodal planning, scoping development, and standards integration—supporting safer, more durable, and accessible infrastructure.

## Districtwide Miscellaneous Professional Engineering Design Consultant Lighting Retrofits



### Address

Miami-Dade County, FL

### Contact Person

Patrick Marchant, PE, (305) 470-5214

### Project Completion

2017-2021

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: \$15M

HBC provided professional lighting design services under an FDOT District-Wide contract involving retrofits at approximately 120 signalized intersections across the Village of Palmetto Bay, Village of Pinecrest, Town of Cutler Bay, City of South Miami, City of Coral Gables, City of Miami, and City of Miami Beach. Task Work Orders (TWOs) included lighting design analysis using AGI-32 software with photometric calculations for horizontal and vertical illuminance, as well as electrical design calculations (load analysis, voltage drop, etc.) documented in Lighting Design Analysis Reports (LDARs). Scope also included roadway design, TTCPs, special foundation design, surveying, SUE, interdisciplinary coordination, and construction-phase services such as shop drawing review and RFI responses. Coordination with FDOT and FPL enabled LED conversions and the installation of new luminaires on shared FPL poles, including avoidance of overhead utility conflicts and securing new service points. This work highlights HBC's capabilities in lighting retrofit design, utility coordination, and multi-agency project delivery—advancing energy-efficient lighting and enhanced safety across District 6.

## Districtwide Pedestrian Lighting Retrofit



### Address

Broward County, FL

### Contact Person

Patrick Marchant, PE, (305) 470-5214

### Project Completion

2017 - 2020

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: \$12M

HBC provided lighting design services under an FDOT District 6 contract involving lighting retrofits at 120 signalized intersections across Miami-Dade County. Scope elements included photometric and electrical analysis, roadway design, Temporary Traffic Control Plans (TTCPs), Subsurface Utility Engineering (SUE), and coordination with Utility Agency Owners (UAOs). HBC also supported FDOT and Florida Power & Light (FPL) in converting existing systems to LED and adding new luminaires on FPL poles, including service point coordination. Task Work Orders (TWOs) under this contract included intersection lighting along major corridors such as SR-5/US-1 and SR-A1A/Collins Avenue. This work demonstrates HBC's expertise in lighting retrofit design, agency coordination, and utility integration—supporting energy-efficient upgrades and enhanced safety across FDOT's District 6 roadway network.

## ADA Compliance On Street Parking



### Address

Miami, FL

### Contact Person

Daniel Alcala, (305) 416-1513

### Project Completion

2023 - 2024

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: \$133K

Actual Construction Cost: \$132K

**HBC** provided ADA-compliant on-street parking design services for multiple locations across the City of Miami, in accordance with City Engineering Standards, FDOT Standard Plans, and PROWAG. The evaluated and retrofitted sites included Brickell Bay Drive at SE 14th Street, Chopin Plaza, Bayside Parking Lot 19, Bayshore Drive at NE 4th Avenue, North Miami Avenue at NE 40th Street, and NE Miami Court at NE 16th Street. Along Brickell Bay Drive, design considerations included preserving site elements such as the seawall, vegetation, lighting, and sculptures while integrating a modified curb ramp to address elevation differences. Where existing parking grades exceeded ADA limits, HBC performed milling, resurfacing with overbuild, and curb and gutter reconstruction to create compliant transitions. At Bayside Parking Lot 19, full pavement reconstruction and base rework were required due to stormwater flow issues. This work demonstrates HBC's capabilities in ADA design, site-sensitive engineering, and drainage integration—ensuring accessible, compliant parking throughout the City of Miami.

# 6 | SUBCONSULTANTS' EXPERIENCE ON CONTINUOUS SERVICES CONTRACTS

## Districtwide Structures Review and Design



### Client | Address

FDOT District 6 | Districtwide

### Contact Person

Zhang, Hailing, PhD, PE, (305) 470-5484, Hailing.Zhang@dot.state.fl.us

### Project Completion

Ongoing

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: N/A

Since 2010, **EAC Consulting** has served as an extension of FDOT staff, providing district-wide plans review and structural design services for both Minor and Major bridges. Their design work has included Category 2 steel bridges, retaining walls, soldier pile walls, light pole foundations, sign structures, sheet pile walls, drilled shafts, auger cast piles, micropiles, and pump stations. EAC's responsibilities also included reviewing BDRs, PD&E reports, conceptual designs, phase submittals, and final design plans.

## Bridge Load Rating



### Client | Address

FDOT District 6 | Districtwide

### Contact Person

Giuseppe Noto, (305) 470-5438, Giuseppe.Noto @dot.state.fl.us

### Project Completion

Ongoing

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: N/A

**EAC Consulting** has rated over 200 concrete, steel, and segmental bridges over the past 10 years under design live loads, permit loads, and EV loads. Refined analysis techniques were applied as needed to improve rating results. The team is highly familiar with FDOT procedures and processes for bridge load rating and reporting.

## WASD Consent Decree Program and Construction Management Services County-Wide



### Client | Address

WASD | County-wide

### Contact Person

Adriana Lamar, (786) 552-8087, [alamar@miamidade.gov](mailto:alamar@miamidade.gov)

### Project Completion

2014-Ongoing

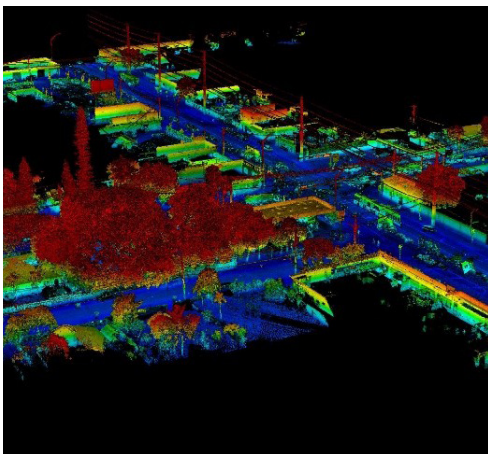
### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: \$1.6M

Actual Construction Cost: N/A

**EV Services** provided community involvement and public outreach services in support of MDWASD's Consent Decree and Capital Improvement Program (CIP). Services included branding the Consent Decree program, developing and managing project-specific Public Involvement Plans, and supporting outreach across active design and construction projects. For treatment plants, outreach was consolidated per facility due to expected prolonged construction-related traffic impacts. **EV Services** also assisted with CIP-wide outreach by briefing elected officials and stakeholders, producing notices, mass mailings, fact sheets, FAQs, graphics, videos, and maintaining web content. A preparatory phase included surveys and briefings with key stakeholders, with all activities documented in monthly reports.

## Districtwide Aerial Photography



### Client | Address

FDOT District 6 | Districtwide

### Contact Person

Zurelys C. Perez de Alejo, PSM, (305) 640-7471

### Project Completion

2020-2024

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: N/A

Actual Construction Cost: N/A

FDOT District 6 selected **GPI Geospatial** for a five-year master contract valued at up to \$1.5 million. To date, GPI has completed \$779,574.51 in task orders supporting various roadway improvements. Notable assignments include: SR 826/Palmetto Expressway (14.57 mi) – \$299,048.75; SR 9336/Ingraham Hwy (5.1 mi) – \$95,807.60; SR 9A/I-95 (3.7 mi) – \$45,895.40; SR-976/Bird Rd (1.45 mi) – \$39,537.01; and multiple segments along SR 817/NW 27 Ave totaling over \$9,500. Deliverables included updated PNC sheets and ALGNRD files, surveyor's reports, project checklists, 3D SRUVRD files, calibrated point clouds, and PDF walkthroughs, in full compliance with FDOT geospatial mapping standards.

## Miscellaneous Professional Services Continuing Contract



### Client | Address

City of Lauderhill | Citywide

### Contact Person

Herb Johnson, (954) 730-4207, hjohnson@laudershill-fl.gov

### Project Completion

2023-2026

### Total Cost of Construction: Estimated & Actual

Estimated Construction Cost: \$52K

Actual Construction Cost: N/A

**Terracon** has provided miscellaneous professional engineering services to the City of Lauderhill since 2009. The firm was selected for categories 4. Structural Engineering and 7. Hydrogeology and Environmental Engineering. Engineering services are related to foundations, bridges, building and/or roofing, design, threshold inspections, material testing, maintenance and repair consultation, consulting for concrete and steel structures, 40-year inspections and unsafe structures. Environmental studies and consultation are related to the City's wellfield and groundwater recharge, which can include groundwater modeling, monitoring, environmental risk management, site cleanup, remediation, permitting, and environmental assessments. Geotechnical engineering involves consultation, performing soil studies, and field and laboratory testing.

# BUILDINGS REPORT FOR CAPITAL REPAIR PLANS

Miami-Dade County Water and Sewer Department (MDC-WASD)



HBC led the MDC-WASD Buildings Report for Capital Repair Plans Project, overseeing the structural and electrical inspection of MDC-WASD-owned buildings and facilities at the Alexander Orr and Hialeah Water Treatment Plants. Inspections covered key components such as raw sludge holding tanks, chlorine contact basins, clarifiers, aeration basins, filtration areas, unloading stations, pump rooms, ammonia storage and feed areas, fuel tanks, and warehouses. Ancillary structures included concrete and masonry buildings, staircases, platforms, ladders, and handrails.

HBC developed a standardized field inspection template and directed a team of engineer inspectors in conducting structural evaluations. Responsibilities included preparing detailed reports, reviewing others’ reports for accuracy and formatting consistency, and documenting deficiencies and well-maintained features with photos. Reports provided repair recommendations and associated quantity estimates.

The team performed visual assessments, reviewed as-built drawings and maintenance records, and compiled findings into Building Inspection Reports that included cost estimates for required repairs. HBC managed project schedules, coordinated inspections across multiple sites, and ensured safe site access.

The inspections supported MDC-WASD’s planning for major capital repairs over the next five years and ensured compliance with BCC Resolution No. 229-22. A total of 82 comprehensive inspection reports were produced, and the project was completed on time and in accordance with project requirements.

**Location**

Miami-Dade County, FL

**Dates**

04/2022 - 06/2022

**Budget**

HBC Fee: \$378 K

**Reference**

Jose Vizoso  
 (786) 552-4369  
[jose.vizoso@miamidade.gov](mailto:jose.vizoso@miamidade.gov)  
 3071 SW 38th Ave.  
 Miami, FL 33146

**Key Components**

Building inspections, water treatment structures, structural assessments, electrical evaluations, inspection reporting, photo documentation, repair recommendations, quantity estimates, cost estimating, coordination with operators.

# SR-656/17TH STREET EAST END OF BRIDGE NO. 880077

FDOT District 4



This project involves the Roadway and Signing & Pavement Markings (S&PMs) design for repairing the deteriorated spans at the east end of Bridge Number 880077 to extend its service life. The bridge, which spans 4,730.5 feet, carries SR-656/17th Street over the Indian River Lagoon and the Intracoastal Waterway (ICWW). The existing bridge section is 84 feet wide and includes four 12-foot lanes, 6-foot inside shoulders, and 10-foot outside shoulders with marked bicycle lanes.

Roadway improvements include milling and resurfacing both bridge approaches and replacing the approach slab at the east end. To restore all pavement markings affected by the Maintenance of Traffic (MOT) and ensure compliance with current standards, new S&PMs were designed for the entire project.

HBC is responsible for the Roadway and S&PMs design, focusing on the repair of the deteriorated spans at the east end of Bridge Number 880077 while ensuring its continued functionality and longevity.

**Location**

Vero Beach, FL

**Dates**

2021 - Ongoing

**Budget**

HBC Fee: \$1.2M

Construction Cost: \$12.6M

**Reference**

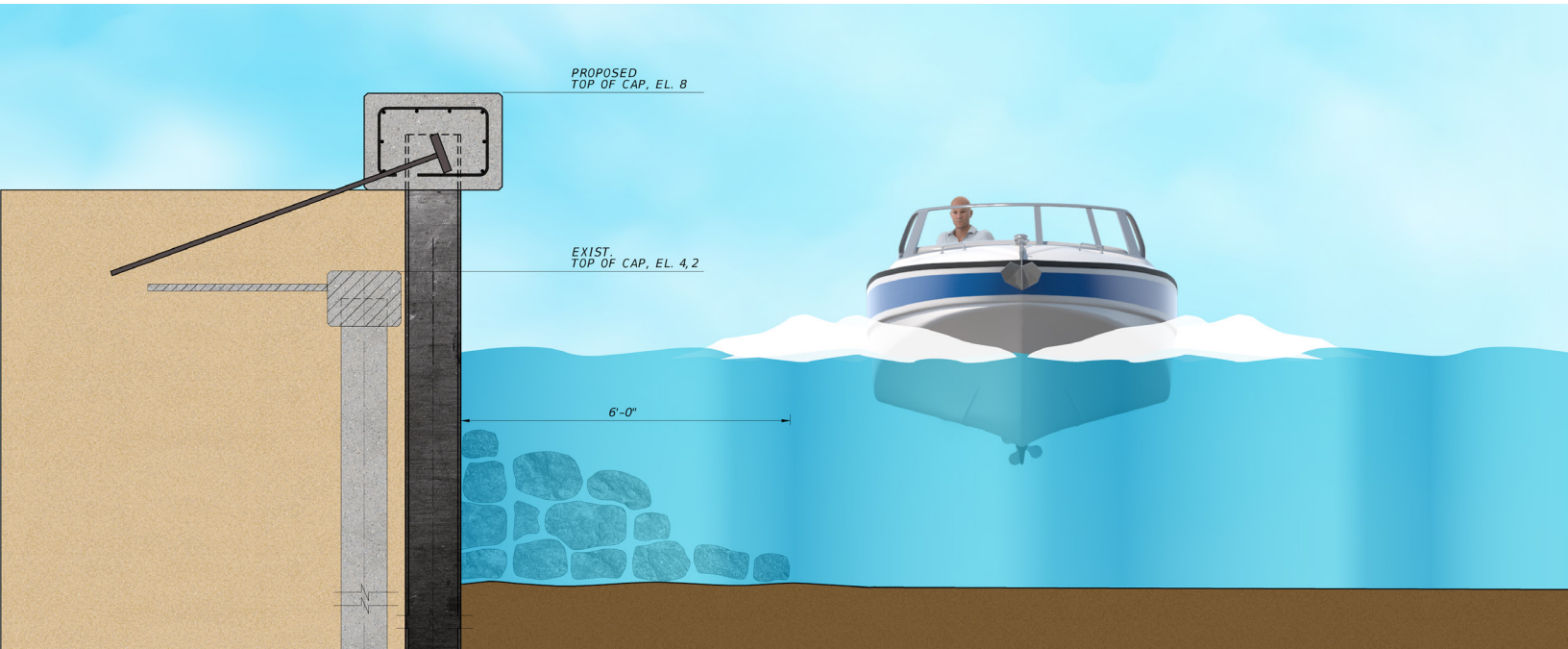
Bing Wang, PE  
(954) 777-4406  
bing.wang@dot.state.fl.us  
3400 W. Commercial Blvd.  
Ft. Lauderdale, FL 33309

**Key Components**

Roadway design, signing and pavement markings (S&PMs), bridge span repairs, milling and resurfacing, approach slab replacement, maintenance of traffic (MOT)

# RIVERWALK NORTH SEAWALL REPLACEMENT

City of Fort Lauderdale



HBC is providing design services for the replacement of the Riverwalk North seawall, starting from the Andrews Avenue bridge and going five hundred feet west toward the FXE train track.

This project includes but is not limited to the following:

- The design of a new seawall in the form of sheet piling in front of the existing concrete seawall on the side facing the river
- The demolition of the existing concrete catwalk located in front of the existing seawall on the side the side facing the river
- The installation of fixed docks attached to the new seawall
- The installation and attachment of new floating docks and amenities
- The relocation of utilities attached to the concrete catwalk as well as the replacement of utility stations located on the existing concrete catwalk
- The replacement of various electrical shore-ties pedestal
- The inspections of deteriorated structure elements on site and preparation designs and specifications for appropriate repairs and replacements
- Data collection and review of existing condition
- Various post design services such as attending, recording, and preparing of minutes of the pre-construction meeting and the review of all shop drawings, product data, cut sheets, and submittals to determine compliance.

**Location**

Fort Lauderdale, FL

**Dates**

2024 - Ongoing

**Budget**

HBC Fee: \$386K

Construction Cost: \$N/A

**Reference**

Ana Ziegler, EE/PM II

(954) 828-5817

aziegler@fortlauderdale.gov

100 North Andrews Avenue

Fort Lauderdale, Florida,

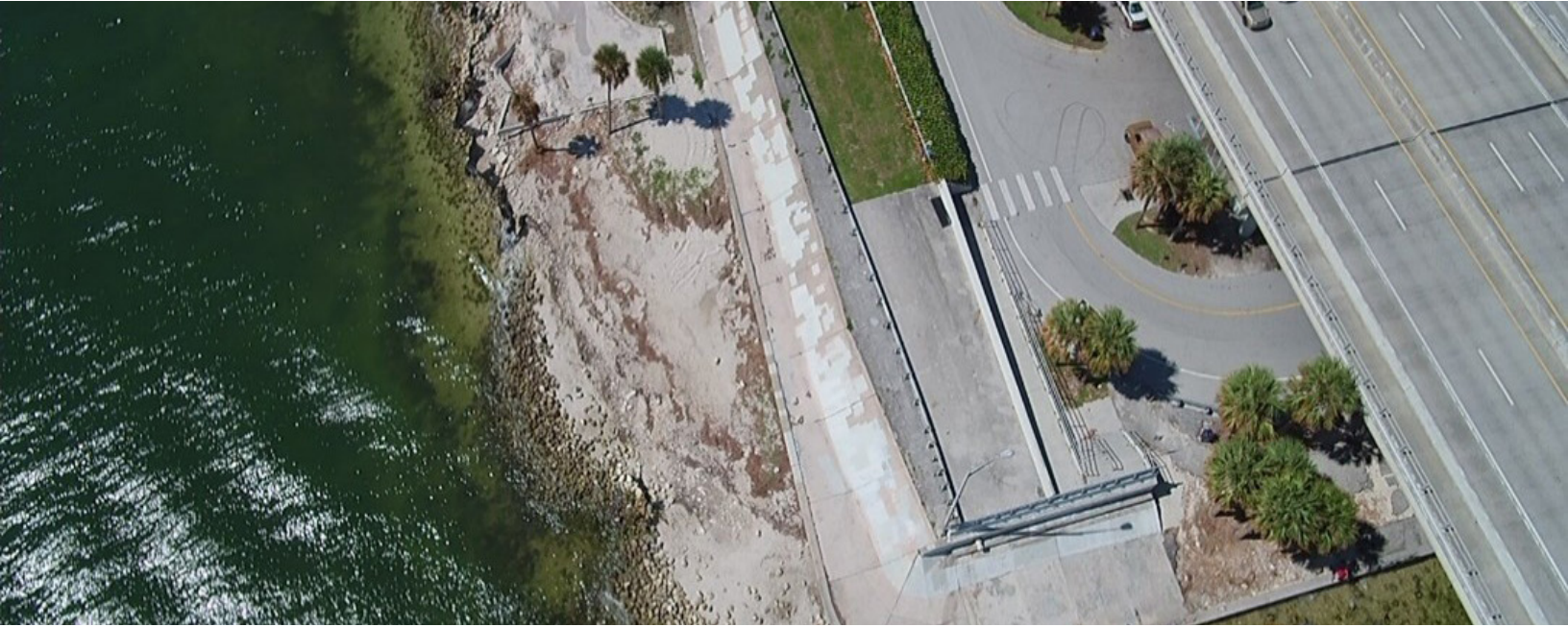
33301

**Scope of Services**

Seawall design, catwalk demolition, fixed docks, floating docks, utility relocation, utility station replacement, electrical pedestal replacement, structural inspections, condition assessment.

# RICKENBACKER CAUSEWAY LANE REDUCTION FEASIBILITY STUDY

Miami-Dade County Department of Transportation and Public Works



The Rickenbacker Causeway serves as a critical connection between the Miami Metropolitan Area and the Village of Key Biscayne. As a regional arterial, it accommodates commuters, recreational users, and functions as a key hurricane evacuation route. Due to its importance, any changes to its lane configuration must be carefully evaluated to meet the transportation needs of all users safely and efficiently.

HBC led a traffic study to assess the feasibility of reducing the number of lanes from three to two while maintaining effective traffic operations. The study included:

- Data collection to capture traffic volumes, travel patterns, and user behavior
- Traffic forecasting, analysis, and simulation
- Evaluation of hurricane evacuation needs and special events
- Public involvement and project management

**The study also included an evaluation of design alternatives:**

**No-Build Alternative:** Retains current lane configurations

**Build Alternatives:** Considered various reconfigurations to enhance safety and multimodal access

Two build alternatives were examined in greater detail for their operational impacts. Through detailed analysis and modeling, HBC delivered a data-driven evaluation that supports informed decision-making. The study contributes to a long-term strategy that balances multimodal transportation, safety, and emergency preparedness along this essential corridor.

**Location**

Miami, FL

**Dates**

2015 - 2022

**Budget**

HBC Fee: \$33,660

**Reference**

Yanek Fernandez, PE  
 (305) 375-3016  
[yanek.fernandez@miamidade.gov](mailto:yanek.fernandez@miamidade.gov)  
 701 NW 1st Court  
 Suite 1700  
 Miami, FL 33136

**Key Components**

Traffic study, data collection, forecasting, simulation, public involvement, design evaluation.

# SOUTH BULKHEAD REPAIRS BAYS 148-155

PortMiami

---



HBC supported PortMiami on a waterfront infrastructure improvement project that included the removal of a Roll-On/Roll-Off (RORO) pier and the demolition and reconstruction of the existing bulkhead concrete cap. The scope also involved the replacement of mooring and berthing components, including bollards and fenders, and the installation of a relieving platform to support mobile harbor crane operations. HBC was responsible for modifying existing site utilities to accommodate the removal of water and electrical ship service stations.

The project also required raising the finish grade pavement elevation with a 0.5% transition slope to allow the mobile harbor crane to access the east end of the new bulkhead cap. Additional services included storm drainage improvements, grading, and pavement design to conform to the new site geometry. HBC also oversaw the installation of sheet pile corrosion protection systems, including both encasement and externally mounted anode systems.

**Location**

Miami, FL

**Dates**

2023 - Ongoing

**Budget**

HBC Fee: \$370K

Construction Cost: \$14M

**Reference**

Yosmel Milian

(305) 967-3977

yosmel.milian@

miamidade.gov

1015 N. America Way

2nd Floor

Miami, Florida 33132

**Contract No.**

2022-026

**Key Components**

Pier removal, bulkhead reconstruction, mooring replacement, relieving platform, utility modifications, pavement elevation adjustment,

# 8 | MINORITY/WOMEN (M/WBE) PARTICIPATION

HBC is a certified Minority Business Enterprise (MBE) under the Florida Small and Minority Business Assistance Act of 1985, and we are committed to advancing diversity and inclusion in procurement and contracting. We have successfully met and exceeded M/WBE participation goals in previous contracts and remain dedicated to fostering opportunities for disadvantaged and minority-owned businesses.

For this contract, HBC has partnered with EAC Consulting, Inc. (CBE, MBE), EV Services, Inc. (M/WBE), Geosol, Inc. (DBE, MBE, SBE), Tierra South Florida, Inc. (DBE)—each a certified D/M/WBE firm—to ensure meaningful participation of minority- and women-owned business enterprises.

Our commitment extends beyond compliance—we actively seek to mentor, support, and collaborate with minority firms to create long-term economic opportunities and enhance contracting diversity. HBC remains steadfast in implementing our Equal Business Opportunity (EBO) Plan, ensuring that minority firms play a key role in project execution and that our team reflects the diverse communities we serve.

09:05, 11:12 AM WebFOCUS Report

**Florida UCP DBE Directory**

Number of Vendors Returned: 1  
 Selection Criteria:  
 Vendor: TIERRA SOUTH FLORIDA INC

---

Vendor Name: **TIERRA SOUTH FLORIDA INC**  
 DBE CERTIFIED: **MBE** ACDBE Status: N SBE: N Avail Statewide: Y

Business Description: GEOTECHNICAL ENGINEERING CONSTRUCTION MATERIAL TESTING THRESHOLD/SPECIAL  
 Mailing Address: 2785 VISTA PARKWAY SUITE 10  
 WEST PALM BEACHES, FL 33411

Contact Name: RAJ KRISHNASAMY Phone: (561)887-8536 Fax: (561)887-8570  
 Email: RAJ@TIERRASOF.COM Web Site:

**Certified NAICS**  
 541330 Engineering Services  
 541380 Testing Laboratories and Services



As an MBE prime consultant, HBC leads by example—demonstrating that inclusive leadership strengthens our projects, our partnerships, and the communities we build.

# 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:

03/08/2024 to 03/08/2026



J. Todd Inman  
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](http://www.dms.myflorida.com/osd)

# 9 | SUBCONSULTANTS

HBC prioritizes collaborative project management to ensure efficiency, transparency, and alignment with Fort Lauderdale’s infrastructure goals. We strategically integrate specialized subconsultants to enhance service quality and meet the City’s requirements. Our coordinated approach promotes effective team contributions and upholds high standards in quality, efficiency, and innovation. Through strong partnerships and structured coordination, HBC will deliver a seamless, well-integrated Improvement Master Plan with precision and professionalism.

When choosing our subconsultant team, we stay true to our three pillars for collaboration and partnership:

<p><b>Innovative Solutions</b></p> <p>Delivering tailored engineering solutions through advanced technology and collaboration.</p>	<p><b>Client Commitment</b></p> <p>Building trusted partnerships and ensuring seamless, on-time project execution.</p>	<p><b>Sustainable &amp; Resilient Infrastructure</b></p> <p>Implementing environmentally responsible designs for lasting community impact.</p>
--	--	--

## EAC Consulting, Inc. (CBE, MBE)



**EAC Consulting, Inc.**, a firm that has experience in a wide variety of engineering services, will be partly responsible for the bridge design, replacement, rehabilitation, and other structural services.

EAC is a Florida-based CBE and MBE certified firm with nearly 30 years of experience in bridge design and structural engineering. The firm specializes in inspections, condition assessments, feasibility studies, and bridge replacements, including rehabilitation and load rating per FDOT standards. EAC’s FDOT-certified engineers deliver cost-effective, sustainable solutions through expert structural assessments and master planning. Fully licensed and insured, EAC meets all Florida regulatory requirements and is committed to diversity and innovation in public infrastructure.

**With a portfolio that includes 1,000+ miles of bridges, roadways, and expressways as well as \$7 billion in program and construction management projects, EAC has the experience and technical expertise to support complex structural infrastructure needs, ensuring projects are completed on time and within budget.**

## Geosol, Inc. (DBE, MBE, SBE)



**Geosol, Inc.**, a firm that specializes in geotechnical engineering, will be responsible for a portion Geotechnical for this project. Including Materials Testing services during Construction Engineering and Inspection (CEI).

Geosol, an FDOT-certified MBE firm, will provide geotechnical services for Fort Lauderdale’s Bridge Design contract, supporting bridge replacement and structural upgrades. Services include field reconnaissance,

construction monitoring, integrity assessments, and load-bearing evaluations, all in compliance with FDOT and Broward County standards. Using in-house drill rigs, labs, and automatic SPT hammers, Geosol will conduct subsurface investigations essential for foundation design.

**With 25 years of experience and over 500 Task Work Orders for FDOT and Broward County, Geosol has served as the Geotechnical Engineer of Record (GEOR) for major transportation projects and has extensive knowledge of Fort Lauderdale’s subsurface conditions, particularly for bridge foundations.**

Their expertise in foundation system design and soil-structure interaction ensures a cost-effective and technically sound geotechnical approach to support the City’s infrastructure needs.

## GPI Geospatial, Inc.



**GPI Geospatial, Inc.**, a firm that specializes in surveying, will be responsible for assigned projects that include survey, mapping, and SUE.

GPI Geospatial, Inc. is a full-service surveying firm specializing in control, topographic, boundary, and SUE surveys, aligned with Fort Lauderdale’s RFQ 499. With expertise in 3D design surveys, LiDAR, and geospatial data, GPI delivers precise data for bridge replacements and structural improvements. Their team of licensed PSMs and SUE crews will provide ROW determination, geodetic control, and utility investigations (Quality Levels A & B) to support design and permitting.

**GPI has extensive experience performing surveying and mapping services for FDOT District 4, Broward County, and the City of Fort Lauderdale, ensuring compliance with Florida Statutes and local regulations.**

Their advanced LiDAR platforms, GPS-based control methods, and certified field crews enable efficient, high-precision surveying solutions to support the City’s bridge design and structural engineering needs.

## KCI Technologies, Inc.



**KCI Technologies, Inc.**, a firm that specializes in landscape architecture will be responsible for that particular service.

KCI will support Fort Lauderdale’s Bridge Design contract by addressing landscape and tree impacts from bridge replacements. Their Landscape Architects and Certified Arborists will prepare Tree Inventories, Disposition Plans, and Landscape Plans to meet City mitigation requirements and minimize vegetation disruption, while coordinating with engineers for integrated solutions.

**With experience on 250+ roadway and streetscape projects in South Florida, KCI brings expertise in tree preservation, urban landscape design, and environmental coordination, ensuring a seamless approach to landscape restoration while supporting the City’s infrastructure improvements.**

## Moffatt & Nichol, Inc. (CBE)



moffatt &  
nichol

**Moffatt & Nichol, Inc.**, a firm that specializes in engineering and consulting services to clients for requiring environmental, marine, transportation, federal, and urban development will be responsible for the environmental; hydraulic structures, design, and modeling; mechanical engineering and permitting services.



Moffatt & Nichol is a global infrastructure advisory firm with extensive experience in environmental permitting and regulatory compliance for bridge projects in South Florida's tidal waters.

**Their environmental and permitting team, each with 25+ years of experience, ensures compliance with federal, state, county, and local regulations, including permits from the U.S. Army Corps of Engineers (USACE), Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), and Broward County.**

Moffatt & Nichol streamlines approvals through early permit planning, agency coordination, and pre-application meetings. Their expertise includes biological assessments, mitigation, Section 7 consultations, and environmental permitting. They are well-versed in Florida bridge replacement exemptions and securing state and federal permits. Their approach ensures compliance with water quality and species regulations, minimizing environmental impacts and supporting efficient project delivery.

## Terracon Consultants, Inc. (TER)



**Terracon Consultants, Inc.** will be responsible for nondestructive testing, environmental assessments/findings of no significant impacts.

Terracon is a multidisciplinary engineering firm with over 55 years of experience delivering geotechnical, environmental, facilities, and materials services nationwide.

**With a 13-office network across Florida and more than 7,000 employee-owners, Terracon supports infrastructure and structural engineering projects through a comprehensive, data-driven approach that spans the entire project lifecycle.**

Their geotechnical services include site characterization, subsurface exploration, laboratory testing, rock mechanics, geostructural design, and instrumentation—supported by a vast archive of historical subsurface data and GIS-enabled mapping. Terracon's field professionals and engineers collaborate to provide timely, practical design recommendations, including during construction. Their QA/QC-driven materials testing and construction observation services ensure compliance and long-term performance. Ranked as a Top 20 design firm by ENR, Terracon brings national resources, Florida-based expertise, and a disciplined project approach to support bridge design, foundation systems, and complex structural projects.

## TSF Tierra South Florida, Inc. (DBE)



**TSF Tierra South Florida, Inc.**, a firm that specializes in geotechnical engineering, will be responsible for the pavement analysis & design.

**TSFGeo, an FDOT prequalified consultant, brings 37 years of experience in geotechnical engineering, construction, laboratory testing, and field inspections.**

TSFGeo ensures efficiency and compliance through a structured, milestone-driven approach. They begin with site analysis using maps, aerials, and soil surveys to identify issues like poor soils or dumping. After a site visit to assess access, clearance, and MOT needs, they submit a detailed proposal. Once approved, they coordinate utility clearances, scheduling, and updates, issuing preliminary findings followed by a QA/QC-reviewed geotechnical report with a Soil Management Plan. Their FDOT prequalification in multiple work groups highlights their capability to support bridge and structural engineering projects.

## Underwater Hydraulics LLC (UWH)



**Underwater Hydraulics LLC**, a firm that specializes in underwater services, will be responsible for the underwater inspections.

Underwater Hydraulics is a specialized commercial diving firm offering expert underwater construction and inspection services.

**With certified commercial divers trained through The Ocean Corporation and U.S. Navy Divers Program, the team brings advanced capabilities in underwater welding, rigging, pipe installation, and hydraulic demolition.**

Their expertise spans critical infrastructure services, including manatee gate installation, dredging, rip rap placement, and underwater concrete work. The firm supports civil and utility contractors with project-specific dive plans, OSHA-compliant safety protocols, and emergency response procedures tailored to shallow water operations. Services are backed by advanced training in ROV operation, ultrasonic testing (Levels 1 & 2), magnetic particle inspection, and DAN O2 safety. Their crews are equipped for trench safety, out-of-air emergencies, and communication loss scenarios. Underwater Hydraulics has successfully partnered on sewer lateral installations and coastal rehabilitation, providing disciplined execution under tight timelines and challenging conditions. The team is fully trained in CPR, first aid, and HAZWOPER compliance to ensure safe, high-quality performance.

## EV Services, Inc. (EVS) (M/WBE)



**EV Services, Inc.** is a firm that specializes in public involvement will be responsible for that particular service.

EV Services, Inc. (EVS) is a public engagement and strategic communications firm dedicated to helping public and private sector clients translate big ideas into measurable results.

**Since its founding in 2006, EVSI has supported agencies across Florida—including Miami-Dade, Broward, Palm Beach, and Monroe Counties—by providing tailored public involvement, government relations, media strategies, and grant development services.**

EVSI specializes in public engagement strategies that build consensus, foster trust, and drive project success. Their services include community outreach, stakeholder coordination, public meeting facilitation, event planning, and multilingual communication (English, Spanish, and Creole). The firm's team of seasoned professionals delivers high-impact promotional materials and branded campaigns that elevate project visibility and community understanding. EVSI also brings expertise in policy analytics and grant assessment, offering technical review services that strengthen funding applications.

## V3 Architectural Group, Inc. (V3) (DBE)



**V3 Architectural Group, Inc.** is a firm that specializes in architecture and will be responsible for that particular service.

V3 Architectural Group is an award-winning architecture and interior design firm founded in 2009. Led by principals with over 75 years of combined experience, V3 specializes in public, commercial, residential, hospitality, education, and historic preservation projects. The firm delivers tailored designs with a focus on proportion, function, and durability. Known for client-focused service, V3 maintains hands-on involvement from start to finish and excels in coordinating with agencies such as the City of Doral, Hialeah Housing Authority, FDOT, ISD, MDX, and Miami-Dade Public Housing.

**V3 has successfully led fast-tracked projects like the Dolphin Station Park-and-Ride Transit Terminal. Recent projects include the Golden Glades Multimodal Facility, Edison Library Window Replacement, and Doral Police Substation Simulation Room.**

**State of Florida  
Department of State**

I certify from the records of this office that EAC CONSULTING, INC. is a corporation organized under the laws of the State of Florida, filed on September 6, 1994.

The document number of this corporation is P94000066488.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 14, 2025, 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 Fourteenth day of January, 2025*




Secretary of State

Tracking Number: 7344833519CC

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  
Department of State**



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

The document number of this corporation is P00000035530.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 6, 2025, 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, 2025*

Secretary of State

Tracking Number: 3456897022CC

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  
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, 2025, that its most recent annual report/uniform business report was filed on January 16, 2025, 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 Sixteenth day of January, 2025*




Secretary of State

Tracking Number: 5601882567CC

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  
Department of State**



I certify from the records of this office that KCI TECHNOLOGIES, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on April 19, 1989.

The document number of this corporation is P23975.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 8, 2025, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Eighth day of January, 2025*

Secretary of State

Tracking Number: 0029241123CU

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  
Department of State**



I certify from the records of this office that MOFFATT & NICHOL, INC. is a California corporation authorized to transact business in the State of Florida, qualified on June 10, 1985.

The document number of this corporation is P06383.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 3, 2025, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Third day of January, 2025*

Secretary of State

Tracking Number: 7288079198CC

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  
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, 2025, that its most recent annual report/uniform business report was filed on January 2, 2025, 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 Second day of January, 2025*




Secretary of State

Tracking Number: 2504287763CC

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 Department of State

I certify from the records of this office that TERRACON CONSULTANTS, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on December 31, 2003.

The document number of this corporation is F0400000114.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 16, 2025, and that its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Seventeenth day of January, 2025*



*[Signature]*  
Secretary of State

Tracking Number: 917169698C1

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 Department of State

I certify from the records of this office that EV SERVICES, INC. is a corporation organized under the laws of the State of Florida, filed on October 25, 2006.

The document number of this corporation is P06000135877.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on March 5, 2025, 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 Fifth day of March, 2025*



*[Signature]*  
Secretary of State

Tracking Number: 469166954CC

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 Department of State

I certify from the records of this office that UNDERWATER HYDRAULICS LLC is a limited liability company organized under the laws of the State of Florida, filed on August 25, 2022, effective August 19, 2022.

The document number of this limited liability company is L22000374245.

I further certify that said limited liability company has paid all fees due this office through December 31, 2025, that its most recent annual report was filed on February 23, 2025, and that its status is active.

*Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-third day of February, 2025*



*[Signature]*  
Secretary of State

Tracking Number: 7657666547CC

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 Department of State

I certify from the records of this office that V3 ARCHITECTURAL GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on January 6, 2009.

The document number of this corporation is P09000000987.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on February 5, 2025, 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 Fifth day of February, 2025*



*[Signature]*  
Secretary of State

Tracking Number: 3678170845CC

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

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





**CITY OF FORT LAUDERDALE BID/PROPOSAL CERTIFICATION**

**Please Note:** It is the sole responsibility of the bidder/proposer to ensure that their response is submitted electronically through the [City's on-line strategic sourcing platform](#) 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: 5200 NW 33rd Avenue, Suite 211

City: Fort Lauderdale State: FL Zip: 33309

Telephone No.: (305) 232-7932 FAX No.: (305) 232-7933 Email: proposals@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 DBE (**section 1.09 of General Conditions**):

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

Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued	Addendum No.	Date Issued
N/A	N/A						

**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.

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)

05/22/2025

Date



Signature

President

Title




**AFFIDAVIT OF COMPLIANCE WITH FOREIGN ENTITY LAWS  
(Florida Statute- §287.138, 692.201, 692.202, 692.203, and 692.204)**

The undersigned, on behalf of the entity listed below ("Entity"), hereby attests under penalty of perjury as follows:

1. Entity is not owned by the government of a foreign country of concern as defined in Section 287.138, Florida Statutes. (Source:§ 287.138(2)(a), Florida Statutes)
2. The government of a foreign country of concern does not have a controlling interest in Entity. (Source:§ 287.138(2)(b), Florida Statutes)
3. Entity is not organized under the laws of, and does not have a principal place of business in, a foreign country of concern. (Source: § 287.138(2)(c), Florida Statutes)
4. Entity is not owned or controlled by the government of a foreign country of concern, as defined in Section 692.201, Florida Statutes. (Source:§ 288.007(2), Florida Statutes)
5. Entity is not a partnership, association, corporation, organization, or other combination of persons organized under the laws of or having its principal place of business in a foreign country of concern, as defined in Section 692.201, Florida Statutes, or a subsidiary of such entity. (Source: § 288.007(2), Florida Statutes)
6. Entity is not a foreign principal, as defined in Section 692.201, Florida Statutes. (Source: § 692.202(5)(a)(I), Florida Statutes)
7. Entity is in compliance with all applicable requirements of Sections 692.202, 692.203, and 692.204, Florida Statutes.
8. **(Only applicable if purchasing real property)** Entity is not a foreign principal prohibited from purchasing the subject real property. Entity is either (a) not a person or entity described in Section 692.204(1)(a), Florida Statutes, or (b) authorized under Section 692.204(2), Florida Statutes, to purchase the subject property. Entity is in compliance with the requirements of Section 692.204, Florida Statutes. (Source:§§ 692.203(6)(a), 692.204(6)(a), Florida Statutes)

The undersigned is authorized to execute this affidavit on behalf of Entity.

Name: Adebayo Coker, PE Title: CEO / Principal In Charge Entity: HBC Engineering Company

Signature:  Date: 5/21/25

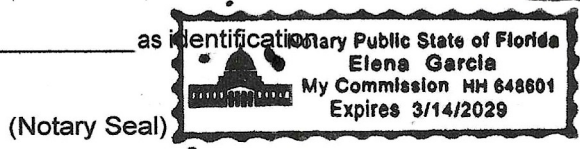
**NOTARY PUBLIC ACKNOWLEDGEMENT SECTION**

STATE OF Florida

COUNTY OF Miami-Dade

The foregoing instrument was acknowledged before me, by means of  physical presence or  online notarization, this 21 day of May 2025, by Adebayo Coker, as President for HBC Engineering Company, who is personally known to me or who has produced N/A as identification

Notary Public Signature: 



Print Name: Elena Garcia

My commission expires: 03/14/2029



**SPECIFIC REFERENCES FORM**

The contractor shall have previous construction experience in the State of Florida with projects of similar scope and scale (or larger). Complete this form in its entirety. **Note: Do not include proposed team members or parent/subsidiary companies as references in your submittal.**

**PRIME BIDDER’S NAME:** HBC Engineering Company

**CLIENT NO. 1 – Name of firm to be contacted:** Miami-Dade County Water and Sewer Department

**Address:** 3071 SW 38th Ave, Miami, FL 33146

**Contact Person:** Jose Vizoso

**Phone No:** (786) 552-4369

**Contact E-Mail Address:** jose.vizoso@miamidade.gov

**Project Performance Period:** 04/2022 to 06/2022  
Dates should be in mm/yy format

**Project Name:** Buildings Report for Capital Repair Plans

**Location of Project:** Miami-Dade County, FL

**Description of the overall scope:** The project involved inspecting structural and electrical conditions at MDC-WASD’s Alexander Orr and Hialeah Water Treatment Plants. Facilities included tanks, basins, pump rooms, and support structures. The inspections supported a five-year capital repair plan through detailed condition assessments and repair recommendations.

**Description of work that was self-performed by Bidder:** HBC developed inspection templates, led site inspections, evaluated structural elements, reviewed records, and prepared detailed Building Inspection Reports. HBC ensured consistency across deliverables, coordinated field activities, and produced cost estimates and photographic documentation, resulting in 82 reports compliant with BCC Resolution No. 229-22.



**SPECIFIC REFERENCES FORM**

CLIENT NO. 2 – Name of firm to be contacted: FDOT District 4

Address: 3400 W. Commercial Blvd., Ft. Lauderdale, FL 33309

Contact Person: Bing Wang, PE

Phone No: (954) 777-4406

Contact E-Mail Address: bing.wang@dot.state.fl.us

Project Performance Period: 05/2021 to Ongoing  
Dates should be in mm/yy format

Project Name: SR-656/17th Street East End of Bridge No. 880077

Location of Project: Vero Beach, FL

Description of the overall scope: The project includes Roadway and Signing & Pavement Markings (S&PMs) design to repair deteriorated spans of Bridge No. 880077 on SR-656 over the ICWW, including resurfacing approaches, replacing the east approach slab, and restoring compliant pavement markings.

Description of work that was self-performed by Bidder: HBC led the Roadway and S&PMs design, addressing span repairs at the bridge’s east end, developing resurfacing plans for both approaches, and designing all new pavement markings to meet current standards impacted by MOT, ensuring structural integrity and traffic safety compliance.

**SPECIFIC REFERENCES FORM**

CLIENT NO. 3 – Name of firm to be contacted: City of Fort Lauderdale

Address: 100 North Andrews Avenue, Fort Lauderdale, Florida, 33301

Contact Person: Ana Ziegler, EE/PM II

Phone No: (954) 828-5817

Contact E-Mail Address: aziegler@fortlauderdale.gov

Project Performance Period: 04/2024 to Ongoing  
Dates should be in mm/yy format

Project Name: Riverwalk North Seawall Replacement

Location of Project: Fort Lauderdale, FL

Description of the overall scope: This project involves designing the replacement of the Riverwalk North seawall, extending 500 feet west from Andrews Avenue. The scope includes seawall design, dock installation, utility relocation, structural repairs, and post-design support for construction compliance and coordination activities.

Description of work that was self-performed by Bidder: HBC is leading design services for sheet pile seawall replacement, fixed and floating docks, utility relocation, and electrical upgrades. Tasks include structural inspections, condition assessments, repair design, and post-design services, such as shop drawing reviews, construction coordination, and meeting documentation.

**SPECIFIC REFERENCES FORM**

CLIENT NO. 4 – Name of firm to be contacted: Miami-Dade County Department of Transportation and Public Works

Address: 701 NW 1st Court, Suite 1700, Miami, FL 33136

Contact Person: Yanek Fernandez, PE

Phone No: (305) 375-3016

Contact E-Mail Address: yanek.fernandez@miamidade.gov

Project Performance Period: 10/2015 to 03/2022  
Dates should be in mm/yy format

Project Name: Rickenbacker Causeway Lane Reduction Feasibility Study

Location of Project: Key Biscayne, FL

Description of the overall scope: This project involved a traffic study to assess reducing lanes on the Rickenbacker Causeway from three to two, evaluating impacts on traffic flow, multimodal accessibility, special events, and hurricane evacuation, with stakeholder engagement and data-driven design alternative analysis.

Description of work that was self-performed by Bidder: HBC led the feasibility study, performing traffic data collection, forecasting, simulation, and evaluating multiple design alternatives. HBC also coordinated public involvement, assessed emergency evacuation impacts, and managed the project to ensure safe, balanced, and informed planning for this critical transportation corridor.

**SPECIFIC REFERENCES FORM**

CLIENT NO. 5 – Name of firm to be contacted: PortMiami

Address: 1015 N. America Way, 2nd Floor, Miami, Florida 33132

Contact Person: Yosmel Milian

Phone No: (305) 967-3977

Contact E-Mail Address: yosmel.milian@miamidade.gov

Project Performance Period: 06/2023 to Ongoing  
Dates should be in mm/yy format

Project Name: South Bulkhead Repairs Bays 148-155

Location of Project: Miami, FL

Description of the overall scope: This PortMiami waterfront improvement project involved demolishing a RORO pier, reconstructing the bulkhead cap, upgrading mooring infrastructure, installing a crane-support platform, modifying utilities, improving storm drainage, and raising pavement grades to support operations and accommodate new site geometry.

Description of work that was self-performed by Bidder: HBC led utility modifications, grading, storm drainage, and pavement design, and coordinated the removal of ship service stations. HBC also managed corrosion protection installation, crane access improvements, and bulkhead cap reconstruction to enhance operational efficiency and infrastructure resilience at PortMiami.



**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 the credit card 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, PE

\_\_\_\_\_  
Name (Printed)

  
\_\_\_\_\_  
Signature

President

\_\_\_\_\_  
Title

05/19/2025

\_\_\_\_\_  
Date



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description: Structural Engineering Services Contract

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: 05/19/2025



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: EAC CONSULTING, INC.

Authorized Company Person's Signature: K.T. Lin

Authorized Company Person's Title: SR. VICE PRESIDENT, STRUCTURES

Date: 5-19-2025



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: Geosol, Inc.

Authorized Company Person's Signature: 

Authorized Company Person's Title: Oracio Riccobono, P.E. (President)

Date: 5/16/25



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: GPI Geospatial, Inc.

Authorized Company Person's Signature: 

Authorized Company Person's Title: Frank Paruas, Assistant Vice President

Date: 5/16/2025



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: KCI Technologies

Authorized Company Person’s Signature: Bruce K Reed

Digitally signed by Bruce K Reed  
DN: CN=Bruce K Reed,  
dnQualifier=A01410D0000018BCE2FE79900014D17,  
O=KCI TECHNOLOGIES INC., C=US  
Date: 2025.05.20 09:54:59-04'00'

Authorized Company Person’s Title: Vice President, Regional Practice Leader

Date: 05/20/25



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

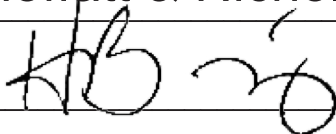
Structural Engineering Services Contract

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: Moffatt & Nichol

Authorized Company Person's Signature: 

Authorized Company Person's Title: VP - Business Unit Leader South Florida

Date: 05/19/2025



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:  
Structural Engineering Services Contract

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: Terracon Consultants, Inc.

Authorized Company Person's Signature: 

Authorized Company Person's Title: Javier E. Jimenez, P.E., Operations Manager, Senior Assoc.

Date: 05/19/2025



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: Tierra South Florida, Inc.

Authorized Company Person's Signature: \_\_\_\_\_

Authorized Company Person's Title: President

Date: 5/19/25



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

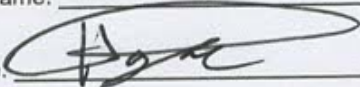
Project Description:  
Structural Engineering Services Contract

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: Underwater Hydraulics

Authorized Company Person's Signature: 

Authorized Company Person's Title: CEO

Date: 5/19/2025



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: V3 Architectural Group, Inc.

Authorized Company Person’s Signature: \_\_\_\_\_




Digitally signed by Jose A Vidal  
DN: c=US, o=V3 Architectural Group Inc.,  
dnQualifier=A01410D000001921FA3D7C900017AD9, cn=Jose A Vidal  
Date: 2025.05.21 17:39:17 -04'00'

Authorized Company Person’s Title: President

Date: 5.21.25



**E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: 449

Project Description:

Structural Engineering Services Contract

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: EV Services, Inc.

Authorized Company Person’s Signature: Esther Monzon-Aguirre Digitally signed by Esther Monzon-Aguirre  
Date: 2025.05.17 09:44:48 -04'00'

Authorized Company Person’s Title: President

Date: 5/19/2025



**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.**

<u>NAME</u>	<u>RELATIONSHIPS</u>
N/A -----	N/A -----
N/A -----	N/A -----
	N/A -----
	N/A -----

**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

Adebayo Coker, PE  
\_\_\_\_\_  
Name (Printed)

President - HBC Engineering Company  
\_\_\_\_\_  
Title

05/19/2025  
\_\_\_\_\_  
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. 2-17(a)(i)(ii), bidders must certify compliance with the Non-Discrimination provision of the ordinance.

- A. Contractors doing business with the City shall not discriminate against their employees based on the employee's race, color, religion, gender (including identity or expression), marital status, sexual orientation, national origin, age, disability, or any other protected classification as defined by applicable law.

Contracts. Every Contract exceeding \$100,000, or otherwise exempt from this section shall contain language that obligates the Contractor to comply with the applicable provisions of this section.

The Contract shall include provisions for the following:

- (i) The Contractor certifies and represents that it will comply with this section during the entire term of the contract.
- (ii) The failure of the Contractor to comply with this section shall be deemed to be a material breach of the contract, entitling the City to pursue any remedy stated below or any remedy provided under applicable law.

A handwritten signature in blue ink, appearing to read 'Adebayo Coker', written over a horizontal line.

Authorized Signature

Adebayo Coker, PE - President, HBC Engineering Company

Print Name and Title

05/19/2025

Date



## **LOCAL BUSINESS PREFERENCE**

Section 2-199.2, Code of Ordinances of the City of Fort Lauderdale, (Ordinance No. C-12-04), provides for a local business preference.

In order to be considered for a local business preference, a bidder must include the Local Business Preference Certification Statement of this ITB, as applicable to the local business preference class claimed **at the time of bid submittal**.

Upon formal request of the City, based on the application of a Local Business Preference the Bidder shall, within ten (10) calendar days, submit the following documentation to the Local Business Preference Class claimed:

- A) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **and**
- B) List of the names of all employees of the bidder and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the local business preference.

**THE COMPLETE LOCAL BUSINESS PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK:**

**[https://library.municode.com/fl/fort lauderdale/codes/code of ordinances?nodeId=COOR CH2 AD ARTVFI DIV2PR S2-186LOBUPR](https://library.municode.com/fl/fort%20lauderdale/codes/code%20of%20ordinances?nodeId=COOR_CH2_AD_ARTVFI_DIV2PR_S2-186LOBUPR)**

**Definitions:** The term "Business" shall mean a person, firm, corporation or other business entity which is duly licensed and authorized to engage in a particular work in the State of Florida. Business shall be broken down into four (4) types of classes:

1. Class A Business – shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City **and** shall maintain a staffing level of the prime contractor for the proposed work of at least fifty percent (50%) who are residents of the City.
2. Class B Business - shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone and staffed with full-time employees within the limits of the City **or** shall maintain a staffing level of the prime contractor for the proposed work of at least fifty percent (50%) who are residents of the City.
3. Class C Business - shall mean any Business that has established and agrees to maintain a permanent place of business located in a non-residential zone **and** staffed with full-time employees within the limits of Broward County.
4. Class D Business – shall mean any Business that does not qualify as either a Class A, Class B, or Class C business.



LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local business price preference classification as indicated herein, and further certifies and agrees that it will re-affirm its local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

(1) is a Class A Business as defined in City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the City of Fort Lauderdale current year Business Tax Receipt and a complete list of full-time employees and evidence of their addresses shall be provided within 10 calendar days of a formal request by the City.

Business Name

(2) is a Class B Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the Business Tax Receipt or a complete list of full-time employees and evidence of their addresses shall be provided within 10 calendar days of a formal request by the City.

Business Name

(3) is a Class C Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.

HBC Engineering Company

Business Name

(4) requests a Conditional Class A classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

Business Name

(5) requests a Conditional Class B classification as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

Business Name

(6) is considered a Class D Business as defined in the City of Fort Lauderdale Ordinance No. C-17-26, Sec.2-186 and does not qualify for Local Preference consideration.

Business Name

BIDDER'S COMPANY: HBC Engineering Company

AUTHORIZED COMPANY PERSON: Adebayo Coker, PE PRINT NAME SIGNATURE DATE 05/19/2025



## **DISADVANTAGED BUSINESS ENTERPRISE (DBE) PREFERENCE**

Section 2-185, Code of Ordinances of the City of Fort Lauderdale, provides for a disadvantaged business preference.

In order to be considered for a DBE Preference, a bidder must include a certification from a government agency, as applicable to the DBE Preference class claimed **at the time of bid submittal**.

Upon formal request of the City, based on the application of a DBE Preference the Bidder shall, within ten (10) calendar days, submit the following documentation to the DBE Class claimed:

A) Copy of City of Fort Lauderdale current year business tax receipt, **or** Broward County current year business tax receipt, **or** State of Florida active registration **and/or**

B) List of the names of all employees of the bidder and evidence of employees' residence within the geographic bounds of the City of Fort Lauderdale or Broward County, as the case may be, such as current Florida driver license, residential utility bill (water, electric, telephone, cable television), or other type of similar documentation acceptable to the City.

Failure to comply at time of bid submittal shall result in the bidder being found ineligible for the disadvantaged business preference.

**THE COMPLETE DBE PREFERENCE ORDINANCE MAY BE FOUND ON THE CITY'S WEB SITE AT THE FOLLOWING LINK: <https://www.fortlauderdale.gov/home/showpublisheddocument?id=56883>**

### **Definitions**

- a. The term "disadvantaged class 1 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.
- b. The term "disadvantaged class 2 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with a full-time employees and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.
- c. The term "disadvantaged class 3 enterprise" shall mean any disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.
- d. The term "disadvantaged class 4 enterprise" shall mean any disadvantaged business enterprise that does not qualify as a Class A, Class B, or Class C business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.



### DISADVANTAGED BUSINESS ENTERPRISE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the disadvantaged business enterprise price preference classification as indicated herein, and further certifies and agrees that it will re-affirm its preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this solicitation. Violation of the foregoing provision may result in contract termination.

(1) is a disadvantaged class 1 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the city, and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

HBC Engineering Company  
Business Name

(2) is a disadvantaged class 2 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business within the limits of the city with a full-time employee(s) and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

Business Name

(3) is a disadvantaged class 3 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that has established and agrees to maintain a permanent place of business located in a non-residential zone, staffed with full-time employees within the limits of the Tri-County area and provides supporting documentation of its City of Fort Lauderdale business tax and disadvantaged certification as established in the City's Procurement Manual.

Business Name

(4) is a disadvantaged class 4 enterprise as defined in the City of Fort Lauderdale Ordinance Section 2-185 disadvantaged business enterprise that does not qualify as a Class A, Class B, or Class C business, but is located in the State of Florida and provides supporting documentation of its disadvantaged certification as established in the City's Procurement Manual.

Business Name

(5) is not considered a Disadvantaged Enterprise Business as defined in the City of Fort Lauderdale Ordinance Sec.2-185 and does not qualify for DBE Preference consideration.

Business Name

BIDDER'S COMPANY: HBC Engineering Company

AUTHORIZED COMPANY PERSON: Adebayo Coker, PE  
PRINT NAME SIGNATURE DATE 05/19/2025