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REQUEST FOR QUALIFICATIONS

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# STRUCTURAL ENGINEERING *SERVICES CONTRACT*

FOR THE

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**CITY OF FT. LAUDERDALE**  
RFQ/EVENT # 449

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May 22, 2025  
City of Fort Lauderdale  
Evaluation Committee  
100 North Andrews Avenue,  
Fort Lauderdale, FL 33301

**RE: Structural Engineering Services (RFQ/Event #449)**

Dear Members of the Evaluation Committee,

As the City of Fort Lauderdale continues its vital investment in resilient and sustainable infrastructure, it needs a structural engineering partner with deep familiarity with the City’s unique coastal environment, aging infrastructure, and long-term capital goals. This contract requires more than technical expertise, it requires a Team that understands the City’s priorities: preserving access, protecting neighborhoods, and planning for the future.

*Simply stated, BCC Engineering, LLC is that Team!*


From 2016 to present day, BCC proudly supported the City under the Miscellaneous Structural Engineering Consulting Task Work Order Contract as one of the selected large-sized firms. During this time, we delivered a wide range of important assignments, such as the Seawall Master Plan, the Fiveash Wellfield facility improvements, the Butler Building reconstruction, the City Park Garage Assessment, and the South Ocean Drive bridge replacement. This experience has given us a strong familiarity with the City’s goals and fostered an excellent working relationship with City staff.

With this submittal of qualifications, we aim to continue that partnership. To meet the City’s needs under this contract, we have reassembled key members of our original local project Team and enhanced it with additional specialists. These professionals have a proven track record working together on continuing services contracts and understand the City’s structures inventory, such as the challenges outlined in the 2023 Bridge Master Plan.

THE BCC TEAM	ROLE
BCC Engineering, LLC (BCC)	Groups 3, 4, 5, 6, 7, 10, 13, Utility Coordination (Prime)
Parsons Transportation Group, Inc. (PAR)	Group 4, Mechanical, Electrical, Movable Bridge
HR Engineering Services, Inc. (HRES)	Geotechnical
Manuel G. Vera & Associates, Inc. (MGV)	Group 8
I.F. Rooks & Associates, Inc. (IFR)	Photogrammetry
Smart-Sciences, Inc. (SS)	Environmental Permitting
Media Relations Group, LLC (MRG)	Public Involvement
Dade Moeller & Associates, Inc. (DM)	Asbestos Testing
INTERA Incorporated (INT)	Coastal Hydraulics/Scour
Miller, Legg & Associates, Inc. (MLA)	Group 15
CONCORR, Inc. (CI)	Corrosion Testing
Greenman-Pedersen, Inc. (GPI)	Painting, Cathodic, Protection, Lead Based Paint
Janus Research, Inc. (JR)	Cultural Resources
Kind Designs (KDD)	Living Shorelines

Our Team is ready to assist the City, from addressing Fort Lauderdale’s aging bridge network, many of which were built before 1975 and now face critical decisions regarding service life and resiliency, to Fort Lauderdale’s multitude of buildings and other structures. We approach each task with responsiveness, clarity, and a commitment to delivering results that align with the City’s vision.

BCC is ready to get to work. We thank you for the opportunity and look forward to continuing to serve as a trusted advisor for the City of Fort Lauderdale and helping advance the progress we’ve made together.

  
Sincerely,  
Eugene Ochoa, PE, Senior Vice President | BCC Engineering, LLC



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# TABLE OF CONTENTS

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# EXECUTIVE SUMMARY



## EXECUTIVE SUMMARY

### INTRODUCTION YOUR LOCAL STRUCTURES FIRM

 BCC has fostered a longstanding relationship with the City, having served as a “large-sized” consultant under the Structural Engineering Services contract since 2016. This submittal reflects our continued commitment to the City’s infrastructure, drawing on direct experience across a range of bridge and structural projects, including seawalls, building facilities, and vital bridges highlighted in the City’s 2023 Master Plan. Our proposed team reassembles staff who supported these efforts, supplemented by trusted subconsultants well-versed in critical aspects such as permitting, utilities, and structure priorities.

BCC’s unmatched portfolio of relevant experience includes recent work with the City of Fort Lauderdale, as well as similar contracts for the City of Miami Beach, Miami-Dade County, FDOT (Districts 1, 3, 4, and 6), and numerous other Florida jurisdictions. BCC’s Structures Group has built a reputation for accessible, responsive support, practical solutions, and adaptive design.

The goal of this Proposal is transparency. The key elements include:

- ✓ Reaffirming our understanding of the City’s vision & goals.
- ✓ Presenting our directly relevant experience.
- ✓ Demonstrating a highly qualified, efficient, & available Team.
- ✓ Tying Team staff to the directly relevant experience & references.
- ✓ Providing a solid, specific approach detailing exactly how we plan to successfully deliver this contract.

In this way, with BCC, there are no unknowns...*the City knows exactly what they will get!*

### FIRM OVERVIEW

BCC was founded in Miami in 1994 as a structural engineering firm. Since that time, BCC has evolved into a full-service consulting firm with over 397 staff capable of taking a project from planning to design to construction management.

Over the years, structures has remained a firm strength. BCC’s Florida Structures Group is one of the largest in the state, currently comprised of 53 professionals, including 21 local Florida Professional Engineers and 2 PhDs. This exceptional growth over the past 30 years has enabled BCC to complete some of South Florida’s most challenging transportation projects, with projects ranging in size from short urban bridges accessing islands and residential neighborhoods, to critical arterials, to movable bridges, to water treatment facilities, to parking structures, to historic bridges such as the Old 7-Mile Bridge in the Keys.

Our firm has also successfully delivered projects using traditional and alternative delivery methods. Through this range of experience, there is a common thread. Specifically, our ability to approach each assignment with a fresh perspective, quickly identifying the unique factors driving a project (such as correctly identifying the root cause of a structural deficiency), and responding with clean, cost-effective solutions. This adaptability, combined with our vast network of experienced staff and strong relationships with bridge repair specialists and regulatory agencies, positions BCC as a reliable, responsive, and trustworthy partner for this bridge repair contract.

### BCC’S HQ & OFFICE SERVICING THIS CONTRACT

Headquartered in Miami, BCC is recognized as one of the fastest-growing engineering firms in the Southeast United States, with 15 strategically located, self-reliant offices. Florida offices include Fort Lauderdale, Miami, Orlando, Palm Beach, Panama City, Tallahassee, and Tampa, optimally positioned to efficiently serve our clients.

This contract will be delivered by our Miami and Fort Lauderdale offices, which are fully equipped to provide direct, responsive support to the City. Our South Florida Team includes structural engineers, project managers, and technical staff who are familiar with the City’s infrastructure and permitting environment. While BCC’s Miami office will serve as the primary office servicing this contract, BCC’s Fort Lauderdale office will be leveraged the same way it has been for the current City Miscellaneous Structural Engineering Consulting contract. This enables the City to draw on local resources from BCC offices throughout the Tri-County area: Broward, Miami-Dade, and Palm Beach Counties!

# EXECUTIVE SUMMARY

## INTRODUCTION

Perhaps most importantly, South Florida is our home. BCC has proudly supported South Florida's municipalities and counties, as well as FDOT Districts 4 and 6, for over 31 years. We are fully committed to making our community sustainable now and for generations to come.

### **BCC HEADQUARTER MIAMI OFFICE**

6401 SW 87<sup>th</sup> Avenue, Suite 200,  
Miami, FL 33173

### **BCC FORT LAUDERDALE OFFICE**

4901 NW 17<sup>th</sup> Way, Suite 506,  
Fort Lauderdale, FL 33309

The table on the page that follows summarizes our corporate structure and highlights the principals, supervisors, and key staff highlights leading this project. Of note, BCC's structure is relatively "flat" and simple. This puts at the City's fingertips BCC's skilled, driven Team that is ready to make decisions and take action to keep projects on track.

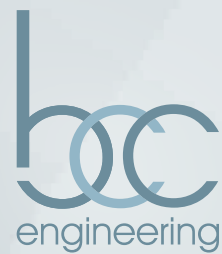
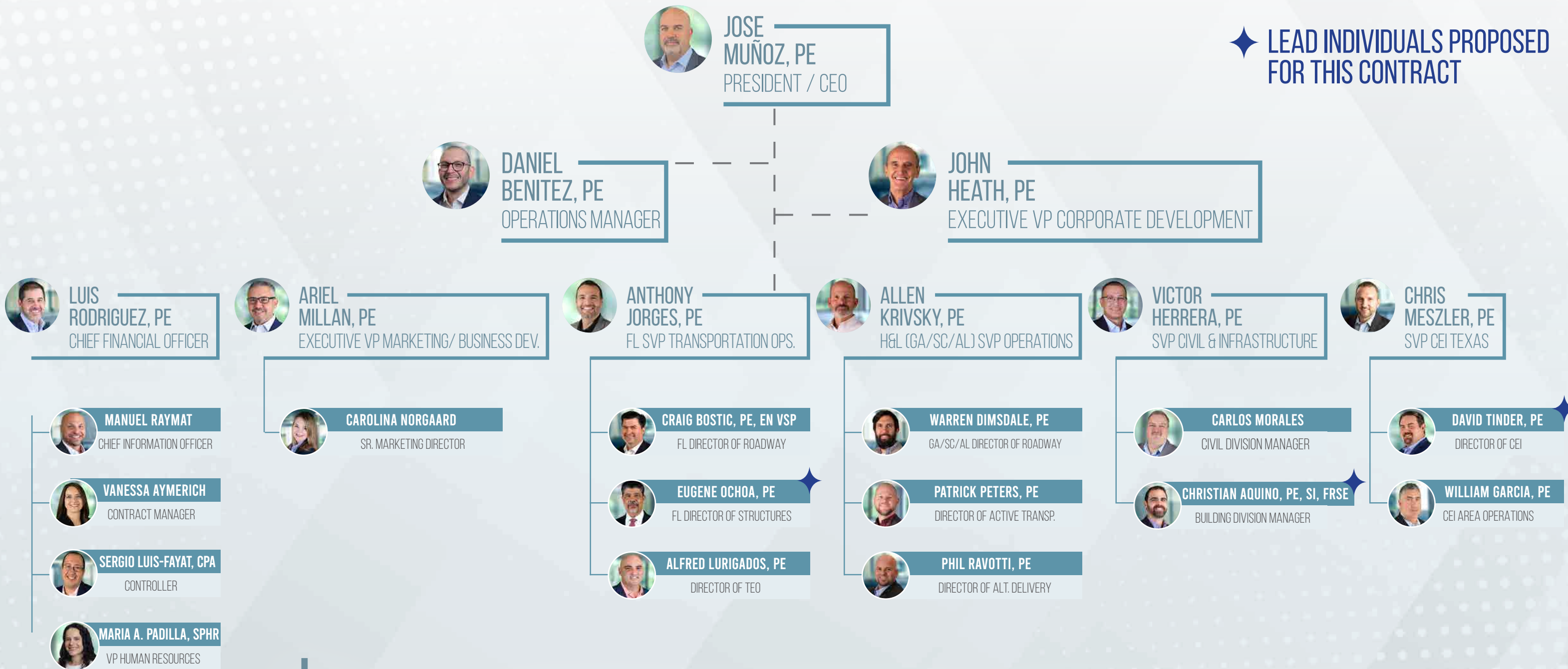
### **BCC Engineering Ft. Lauderdale Office**

 **CITY OF FORT LAUDERDALE  
ENGINEERING DIVISION**

### **BCC Engineering Headquarter Office**

**EXECUTIVE SUMMARY  
ORGANIZATIONAL STRUCTURE**

◆ LEAD INDIVIDUALS PROPOSED FOR THIS CONTRACT



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# EXECUTIVE SUMMARY

## LEAD INDIVIDUALS

**JOAN DE LA ROSA, PE, FRSE**



**PROJECT  
MANAGER**

YEARS OF EXPERIENCE: 22  
PE LICENSE: FL No. 74705  
OFFICE LOCATION: Miami, FL  
EXPERIENCE HIGHLIGHTS:

- 22 years of structural engineering experience
- City of Fort Lauderdale structures project experience
- Expert in bridge rehabilitation contracts
- Vast FDOT and municipal project work
- Leads multidisciplinary design and review Teams

**RICHARD PICK, PE**



**DEPUTY  
PROJECT MANAGER**

YEARS OF EXPERIENCE: 10  
PE LICENSE: FL No. 84339  
OFFICE LOCATION: Ft. Lauderdale, FL  
EXPERIENCE HIGHLIGHTS:

- 9 years of structural engineering experience
- Deputy PM on FDOT District 6's continuing structures contract
- EOR for major bridge repairs and fender replacements
- Experienced with load ratings, plan production, and field investigations
- Familiar with urban, coastal, and constrained work environment

**EUGENE OCHOA, PE**



**PRINCIPAL-IN-  
CHARGE**

YEARS OF EXPERIENCE: 34  
PE LICENSE: FL No. 53199  
OFFICE LOCATION: Miami, FL  
EXPERIENCE HIGHLIGHTS:

- 34+ years of experience in bridge design and rehabilitation in Florida
- Experienced with complex bridge environments, including railroads, airports, coastal areas, and major waterways
- Served as Responsible-in-Charge, Project Manager, and Lead Engineer on major FDOT bridge projects

**BOB FORAND, PE, FRSE**



**QA  
MANAGER**

YEARS OF EXPERIENCE: 27  
PE LICENSE: FL No. 58611  
OFFICE LOCATION: Ft. Lauderdale, FL  
EXPERIENCE HIGHLIGHTS:

- 27 years of bridge rehabilitation experience
- City of Fort Lauderdale structures project experience
- Skilled in coastal bridge repair
- Experienced with FDOT and municipal clients
- Focused on construction-phase project support

**JOHN KURETSKI, PE**



**STRUCTURES  
QC**

YEARS OF EXPERIENCE: 39  
PE LICENSE: FL No. 40165  
OFFICE LOCATION: Ft. Lauderdale, FL  
EXPERIENCE HIGHLIGHTS:

- 37 years of bridge design experience
- Experience with complex bridge types, including curved steel and vessel collision-resistant structures
- Specialist in structural quality control
- Experienced in FDOT and municipal projects
- Oversees major bridge reviews

**BILL JUNKIN, PE, SE**



**MOVABLE BRIDGE  
LEAD/ EOR**

YEARS OF EXPERIENCE: 50  
PE LICENSE: FL No. 43707  
OFFICE LOCATION: Tampa, FL  
EXPERIENCE HIGHLIGHTS:

- 50 years of bridge engineering experience
- Expert in movable bridge design
- Bay Harbor Islands bridge project experience
- Strong background in marine structures
- Leads structural and mechanical systems

**CHRISTIAN AQUINO, PE, SI, FRSE**



**VERTICAL  
STRUCTURES LEAD**

YEARS OF EXPERIENCE: 20  
PE LICENSE: FL No. 74647  
OFFICE LOCATION: Ft. Lauderdale, FL  
EXPERIENCE HIGHLIGHTS:

- 20 years of structural engineering experience
- Serves as Project Manager for vertical structure task orders for the City of Ft. Lauderdale
- Experienced in seawall assessments, facility upgrades, and garage assessments & rehabilitation
- Skilled in bridge assessments & rehabilitation

**CARLOS ALCANTARA, PE**



**ROADWAY  
LEAD**

YEARS OF EXPERIENCE: 24  
PE LICENSE: FL No. 64760  
OFFICE LOCATION: Ft. Lauderdale, FL  
EXPERIENCE HIGHLIGHTS:

- 23 years of transportation engineering experience
- Bay Harbor Islands project experience
- Expert in traffic control design
- Leads roadway and MOT coordination
- FDOT-certified in work zone safety

**DAVID TINDER, PE**



**CEI PROJECT  
LEAD**

YEARS OF EXPERIENCE: 29  
PE LICENSE: FL No. 58195  
OFFICE LOCATION: Miami, FL  
EXPERIENCE HIGHLIGHTS:

- 35 years of bridge construction experience
- Senior Project Engineer on I-95 Express Lanes Phases 2 & 3A-1
- Bascule and steel girder bridge expertise
- FDOT and Design-Build project experience

**IVAN LASA**



**CATHODIC  
PROTECTION LEAD**

YEARS OF EXPERIENCE: 43  
OFFICE LOCATION: Doral, FL  
EXPERIENCE HIGHLIGHTS:

- 43 years of corrosion engineering experience
- Designed 200+ bridge rehabilitation projects
- Specialist in cathodic protection systems
- Patented corrosion mitigation technologies
- Expert in marine structure durability

# EXECUTIVE SUMMARY

## SUMMARY OF QUALIFICATIONS

BCC brings the expertise, capacity, and the firsthand familiarity needed to support the City of Fort Lauderdale through this continuing Structural Engineering Services contract. BCC has served as Prime consultant on the City’s ongoing contract. Our proposed team includes staff who have already delivered successful similar assignments for the City, providing continuity, efficiency, and a clear understanding of Fort Lauderdale’s infrastructure system, regulatory environment, and priorities.

The BCC Team is fully prequalified with FDOT in all required work groups and brings decades of experience delivering structural assignments such as inspections, assessments, cost estimates, load ratings, rehabilitation, and construction-phase services for Florida municipalities. Our local team understands the City’s expectations for safe, resilient infrastructure; strict permitting and inspection protocols; and minimal disruption to neighborhoods, businesses, and the environment.



### WHY BCC?

- **Trusted Partner.** BCC has served as a structural engineering consultant to the City of Fort Lauderdale since 2016 under the active continuing services contract.
- **City Experience.** Our team has delivered City task work orders ranging from seawalls to bridges to building facilities. We have direct, working knowledge of the City’s infrastructure.
- **Aligned Priorities.** We understand and share the City’s focus on resiliency, safety, regulatory compliance, and minimizing impacts to residents and neighborhoods, and we integrate those values into every assignment.
- **Qualifications.** We are prequalified with FDOT in all required work groups and bring a strong balance of FDOT and municipal project experience, with expertise in inspection, load rating, rehabilitation, and construction support.
- **We Are Local.** Our Fort Lauderdale office, just 5.5 miles from the City’s downtown government offices, is ready to respond immediately to City needs.
- **We Are Accessible.** Our project leadership team is available, proactive, and committed to clear, consistent communication with City staff.
- **Built with Depth.** BCC is structured to manage multiple task orders concurrently under continuing contracts, without compromising responsiveness or quality.
- **Versatile Structural Expertise.** From bridges to seawalls to building facilities, our Team has the flexibility to address any challenge that the City may face.

#### BCC ENGINEERING STAFF

**142** PROFESSIONAL  
ENGINEERS  
TOTAL  
EMPLOYEES **389**

#### WORK

**426** MISC  
STRUCTURES  
PROJECTS

OVER  
**700**  
BRIDGE  
TWO'S  
IN THE PAST 10 YEARS!

#### BRIDGES

**160** CATEGORY 1  
BRIDGES  
**40** CATEGORY 2  
BRIDGES

**\$7** DELIVERED OVER  
BILLION  
IN PROJECTS

#### OFFICES

**15**  
LOCATIONS

- CARROLLTON, GEORGIA
- DALLAS, TEXAS
- COLUMBIA, SOUTH CAROLINA
- FORSYTH, GEORGIA
- FORT LAUDERDALE, FLORIDA
- MARIETTA, GEORGIA
- METRO WEST, FLORIDA
- MIAMI, FLORIDA
- ORLANDO, FLORIDA
- PALM BEACH, FLORIDA
- PANAMA CITY, FLORIDA
- SAVANNAH, GEORGIA
- TALLAHASSEE, FLORIDA
- TAMPA, FLORIDA
- ATLANTA, GEORGIA



# FIRM QUALIFICATIONS AND EXPERIENCE



# FIRM QUALIFICATIONS AND EXPERIENCE

## FIRM OVERVIEW

### LEGAL STANDING & COMPLIANCE

BCC Engineering, LLC is a Florida-registered Limited Liability Company in good standing with the State and appropriately licensed to perform Structural Engineering Services. The firm, its principals, officers, and stockholders:

- Have no judgments or pending lawsuits involving the City of Fort Lauderdale;
- Are not in arrears or default on any City contracts;
- Have no history of criminal activity involving moral turpitude; and
- Have no conflicts of interest that have not been waived by the City Commission.

Our Team is fully qualified to perform the requested services in accordance with all legal, ethical, and licensing requirements established in Section 2.8 of the RFQ.

### RELEVANT PROJECT EXPERIENCE

BCC has 31 years of experience delivering structural engineering services under continuing contracts for municipalities and transportation agencies across Florida. BCC started as a 3-staff structural firm in Miami and has grown into a 397-staff, full-service, multi-disciplinary engineering firm with offices throughout Florida and the Southeast. Structural engineering has always remained a firm strength. BCC has also remained highly active in the “niche” of South Florida bridge and structural rehabilitation—particularly through continuing services contracts with coastal communities such as the City of Fort Lauderdale. We routinely function as an extension of municipal staff, supporting inspections, rehabilitation design, permitting coordination, compliance reviews, and construction-phase services.

We understand the responsiveness, technical depth, and coordination required to successfully manage task work order–based structures assignments, especially in environments like Fort Lauderdale where infrastructure is aging, corridors are constrained, and resiliency is a key goal. Our experience includes both routine and urgent structural repairs, often involving phased construction, inter-agency permitting, and coordination with internal City departments.

Since 2016, BCC has served as one of the City of Fort Lauderdale’s Structural Engineering Services consultants under an ongoing Task Work Order contract. As one of the firms selected in the “large-sized” category, we have delivered a wide range of services for City-owned infrastructure, including:

- ✓ Structural evaluations and condition assessments for bridges and seawalls
- ✓ Rehabilitation design for concrete structures, including use of advanced materials such as carbon fiber-reinforced polymer
- ✓ Structural integrity analyses and master planning
- ✓ Building facility support including expansions, parking garage assessments, wellfield tanks, and utility structures
- ✓ Permitting coordination with FDEP, Broward County, and other regulatory agencies
- ✓ Development of bid packages and post-design support
- ✓ Stakeholder coordination and communication

This direct and ongoing experience gives us a detailed understanding of the City’s infrastructure, permitting workflows, and internal processes—positioning our team to continue providing efficient, high-quality support from day one.



# FIRM QUALIFICATIONS AND EXPERIENCE

## FIRM OVERVIEW

### BROADER MUNICIPAL AND BRIDGE EXPERIENCE

In addition to our work with the City of Fort Lauderdale, BCC has also delivered large-scale continuing contracts for:

- City of Sunrise
- Miami-Dade County Department of Transportation and Public Works (DTPW)
- City of Miami Beach
- City of Sarasota
- Town of Bay Harbor Islands
- FDOT Districts 1, 4, and 6

These contracts have included:

- Design and rehabilitation of fixed and movable bridges
- Building facility assessments and repairs
- Emergency structural response and inspection support
- Marine and coastal infrastructure permitting and design
- Bid package development and CEI support
- Shop drawing review and contractor coordination

Our recent relevant experience includes City projects such as the Seawall Master Plan, SE 17th Avenue Bridge Structural Condition Assessment, Butler Building expansion, City Park Garage Assessment, South Ocean Drive Bridge Replacement, and facility work at the Fiveash Wellfield.



Additional relevant projects include structures contracts such City of Miami Beach Architectural and Engineering, City of Sarasota Structures CCNA, Miami-Dade County Bridge Structural Projects, FDOT District One Structures Design Consultant, and FDOT District 6 Bridge Repair/Rehabilitation Plans Preparation. Each of these contracts reflects BCC's ability to deliver consistent, high-quality results across a range of structure types and project conditions. For this City of Fort Lauderdale contract, we have reassembled the same staff and subconsultants who have successfully delivered these projects to continue providing the City with the same high level of service.

Our proposed Project Manager, Joan De la Rosa, PE, FRSE has supported the City of Fort Lauderdale since 2016, including serving as Project Engineer and QC Reviewer for the Seawall Master Plan. His direct experience with the City's infrastructure, permitting processes, and structural priorities brings unmatched continuity to this contract. With BCC's regional presence and multidisciplinary depth, we are uniquely positioned to continue supporting the City's structural needs.

The following pages highlight a selection of bridge and municipal projects that demonstrate our qualifications and experience relevant to the City's scope—including inspections, evaluations, rehabilitation design, environmental coordination, and construction-phase support.

# FIRM QUALIFICATIONS AND EXPERIENCE

The following pages include a staff continuity table, a summary of reference projects with key scope elements, and contact information for project references. Below are 7 representative projects that align with the scope outlined in this RFQ. Each showcases BCC's experience delivering structural engineering services, including inspections, rehabilitation design, permitting, and construction support, for government clients with similar needs and infrastructure.

REFERENCE PROJECT AND PROJECT STAFF CONTINUITY MATRIX		PROJECT STAFF																			
		Joan De La Rosa, PE, FRSE	Richard Pick, PE	Eugene Ochoa, PE	Bob Forand, PE, FRSE	Christian Aquino, PE, SI, FRSE	William Junkin, PE	John Kuretski, PE	Marcello D'Andrea, PE	Carlos Alcantara, PE	Yulet Fernandez, PE	Jamie Vu, PE	Dacha Quintana, PE	Erik Spillmann, PE	Keri-Ann Coore-Vickers, PE	SungRyong Han	Lorin Brisett, PE	Ricardo Duran, PE	Kathy Lajo, PE	Alfred Lurigados, PE	William Garcia, PE
NO.	DESCRIPTION																				
1	<b>Continuing Services Structures Contract</b> Fort Lauderdale, FL	●		●	●		●										●		●		●
2	<b>Professional A&amp;E Services</b> Miami Beach, FL	●		●		●															
3	<b>City-Wide Bridge Rehabilitation Continuing Services</b> Sarasota County, FL	●			●		●	●													
4	<b>Professional Services for Bridge Structural Engineering Projects</b> Miami-Dade County, FL	●		●	●		●	●				●		●				●			●
5	<b>Professional Services for Highway Engineering Services</b> Miami-Dade County, FL	●			●		●												●	●	●
6	<b>Structures Design Consultant</b> Lee, Charlotte, Okeechobee, Sarasota, Manatee Counties, FL	●	●	●			●	●												●	
7	<b>District-Wide Structures Repair/ Rehab Plans Preparation</b> Miami-Dade & Monroe Counties, FL		●	●	●		●	●		●		●	●	●					●		●

# FIRM QUALIFICATIONS AND EXPERIENCE

## PROJECT MANAGER PROFILE



### JOAN DE LA ROSA, PE, FRSE PROJECT MANAGER

YEARS OF EXPERIENCE 22 | FL PE # 74705

Joan will serve as the BCC Project Manager and the City's main point of contact.

Joan brings 22 years of experience in structural design, bridge rehabilitation, and construction-phase coordination for municipal and transportation agency clients across Florida. He served as Project Engineer and QC Reviewer for the City of Fort Lauderdale's ongoing Structural Engineering Services contract, where he supported development of the City's Seawall Master Plan, evaluating over 4 miles of seawalls and 2 miles of natural shoreline to prioritize repairs and achieve the City's long-term coastal resiliency goals.

Joan's leadership on continuing service structures contracts has included structural assessments, rehabilitation design, and coordination with public agencies and stakeholders. He has a deep understanding of the South Florida permitting processes, the City's bridge inventory, and the City's operational expectations—allowing him to step into this role with immediate familiarity and continuity.

Throughout his career, Joan has worked on continuing services structures contracts, progressing from Designer, to Engineer of Record, to Deputy Project Manager, and eventually to Project Manager of contracts such as Miami-Dade County and the Town of Bay Harbor Islands. He regularly oversees multidisciplinary teams, schedules, budgeting, coordination, and public communication.



Joan is a hands on repair project manager who truly loves his work!

His experience includes both urgent structural repairs and long-term capital improvement planning.

Joan provides an optimal blend of hands-on practicality with technical expertise, innovation, and responsiveness. This makes him uniquely qualified to continue supporting structural work for the City. His proven ability to manage task work order assignments efficiently, ensures seamless support from day one.

### EXAMPLES OF JOAN'S SIMILAR PROJECT EXPERIENCE

- **Structural Services Contract, Fort Lauderdale, FL**
- Seawall Master Plan, Fort Lauderdale, FL
- Bridge Engineering Services, Town of Bay Harbor Islands, FL
- Structural Engineering Services, Miami-Dade County, FL
- Districtwide Structures Repair and Rehab, FDOT District 6
- City-Wide Bridge Rehab Contract, City of Sarasota, FL



Joan served as Project Engineer and QC Reviewer for the City's Seawall Master Plan, leading inspections, assessments, and repair prioritization for 4.3 miles of seawalls and 2.0 miles of natural shoreline.

# FIRM QUALIFICATIONS AND EXPERIENCE

## BEST PRACTICES HIGHLIGHT

One special overarching feature of BCC Engineering is our commitment to best practices that foster things such as consistent performance, staff development, and sustainability with respect to the engineering profession and the environment we all share. These best business practices come in many forms. In terms of minimizing environmental footprint and impact, BCC Engineering is committed to promoting sustainable business practices across its operations and project delivery. Internally, BCC minimizes environmental impact through digital document management, electronic plan submittals, and remote collaboration tools, reducing paper waste and carbon emissions associated with travel. Our offices are equipped with energy-efficient lighting and systems, and we prioritize environmentally responsible vendors whenever possible. In terms of sustainable, “best business practices,” BCC understands the importance of developing our most critical asset – our people. BCC implements several continuing education programs that facilitate Professional Engineering licensure and maintenance. BCC also established the “BCC Rising Leader” program which brings together senior staff and junior staff in a multi-day program of knowledge and experience sharing aimed at progressively developing staff, identifying future leaders of the firm, and facilitating “passing of the torch” from one engineering generation to the next. We find this sustainable business practice has had a positive impact on our bridge rehabilitation projects because there is no “Standard” or “One Size Fits All” repair – rather, identifying the root cause of deficiencies and prescribing repairs appropriate to the application rely heavily on experience.

As part of our ongoing commitment to environmental stewardship and innovation, our engineering team has adopted the use of digital tools, such as iPads and other mobile devices, to review, annotate, and update plans in the field. This forward-thinking practice has significantly reduced our reliance on printed construction documents, cutting down on unnecessary paper use and minimizing waste typically generated during design and construction phases.

By transitioning to a digital workflow, we not only conserve resources but also improve field coordination and responsiveness. Plans can be updated in real time, with revisions instantly accessible to all relevant team members, reducing delays, improving accuracy, and supporting adaptive decision-making on-site.


This approach exemplifies our firm’s dedication to integrating sustainable practices into every aspect of our operations. Whether through reducing material waste, optimizing project

delivery, or adopting emerging technologies, we are always looking for innovative ways to protect the environment while enhancing service efficiency. Our team believes that small operational choices, when made consistently and intentionally, can drive meaningful change, both within the engineering industry and in the communities we help build. In the delivery of structural engineering services, BCC supports sustainability and conservation through practical design solutions that extend the service life of infrastructure and minimize the need for resource-intensive reconstruction. Every project BCC undertakes involves an initial focus on minimizing impacts, simplifying and shortening construction, and providing resiliency in the long term. For projects such as bridge rehabilitation and repairs, we focus on preserving and improving existing assets, reducing material waste, and coordinating early with permitting agencies to protect sensitive environmental resources. Our Team’s familiarity with coastal permitting, marine environments, and long-term durability planning aligns with the City’s goals for responsible, resilient infrastructure stewardship.



# FIRM QUALIFICATIONS AND EXPERIENCE

## BUSINESS STRUCTURE AND COMPANY PROFILE

<b>BUSINESS NAME</b>	BCC Engineering, LLC
<b>BUSINESS STRUCTURE</b>	Limited Liability Company (LLC)
<b>LEGAL ENTITY IN FLORIDA</b>	BCC Engineering, LLC is a Florida corporation and is registered and qualified to do business in the State of Florida. On November 1, 2024, Parsons Transportation Group, Inc. (Parsons) acquired BCC Engineering, LLC. Over the coming months, BCC will be integrated into Parsons' North America infrastructure business. We will continue to operate in the State of Florida as BCC Engineering, LLC, until the integration is complete. Parsons Transportation Group Inc. is part of the Parsons Corporation group of companies.
<b>MINORITY/ WOMAN-OWNED BUSINESS</b>	N/A
<b>HEADQUARTERS</b>	<p>Corporate Headquarters: Miami, FL  A. 6401 SW 87 Ave, STE 200,  Miami, FL 33173</p> 
<b>PHONE, FAX, EMAIL</b>	<p>T. 305.670.2350  F. 305.670.2351  Email: EOchoa@bcceng.com</p>
<b>WEBSITE</b>	<a href="https://bcceng.com/">https://bcceng.com/</a>
<b>CONTACT PERSON</b>	<p>Eugene Ochoa, PE, Senior Vice President - Director of Structures  EOchoa@bcceng.com  T. 305. 670. 2350</p>
<b>TOTAL STAFF</b>	397
<b>LICENSES</b>	Provided in the <a href="#">following pages</a>

# State of Florida Department of State

I certify from the records of this office that BCC ENGINEERING, LLC is a limited liability company organized under the laws of the State of Florida, filed on May 8, 2019, effective March 15, 1994.

The document number of this limited liability company is L19000118381.

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 January 14, 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 Fourteenth day of January,  
2025*



  
Secretary of State

Tracking Number: 7801804669CC

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



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## LICENSEE DETAILS

2:19:02 PM 5/11/2022

### Licensee Information

Name: **BCC ENGINEERING, LLC (Primary Name)**  
Main Address: **6401 SW 87TH AVENUE  
SUITE 200  
MIAMI Florida 33173**  
County: **DADE**

### License Information

License Type: **Registry**  
Rank: **Registry**  
License Number: **7184**  
Status: **Current**  
Licensure Date: **04/28/1995**  
Expires:

### Special Qualifications

### Qualification Effective

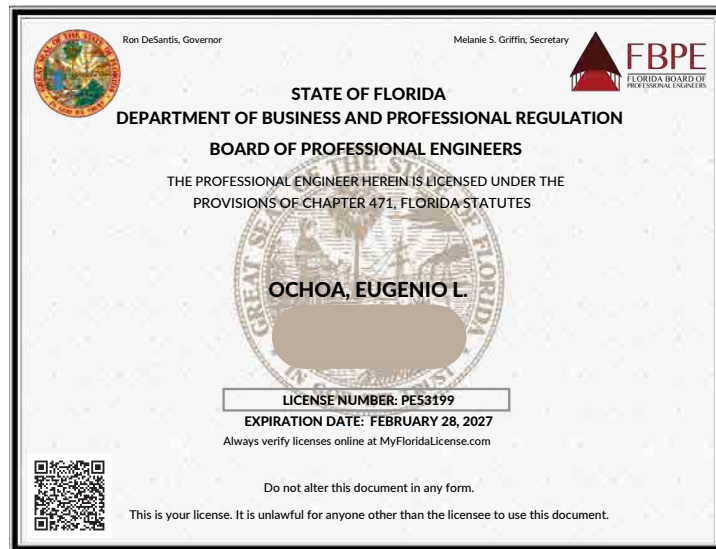
### Alternate Names

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Eugene Ochoa, PE | PE53199 | BCC



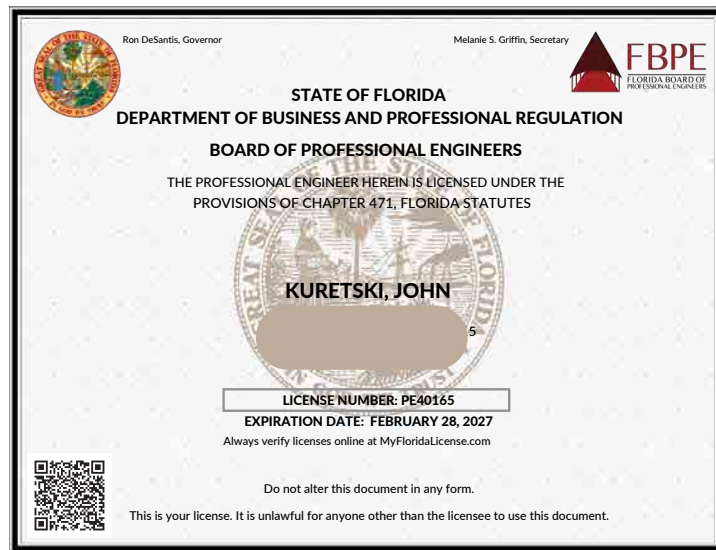
Joan De La Rosa, PE | PE74705 | BCC



Bob Forand, PE | PE58611 | BCC



Carlos Alcantara, PE | PE64760 | BCC



John Kuretski, PE | PE40165 | BCC



Kathy Lajo, PE | PE63068 | BCC



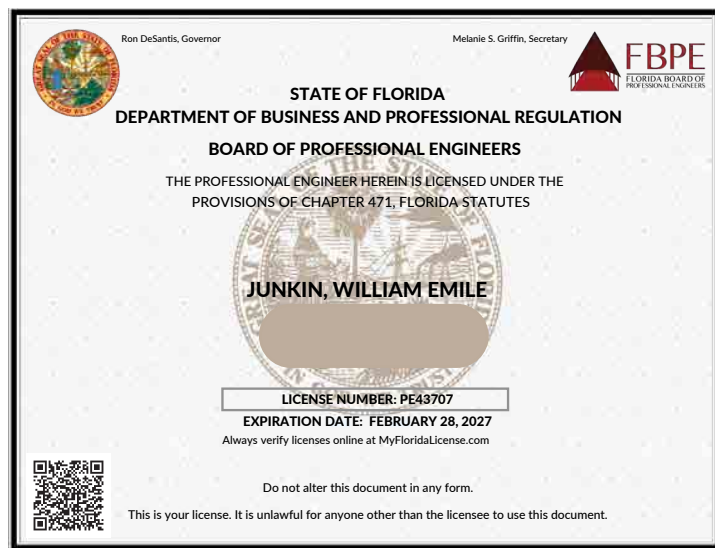
Alfred Lurigados, PE | PE58098 | BCC



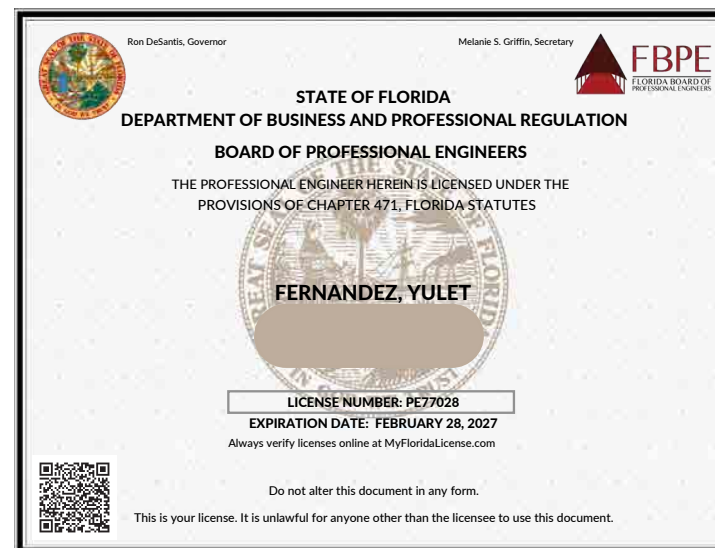
William Garcia, PE | PE56781 | BCC



Christian Aquino, PE, SI | PE74647 | BCC



Bill Junkin, PE | PE43707 | BCC



Yulet Fernandez, PE | PE77028 | BCC



Jamie Vu, PE | PE93343 | BCC



Ricardo Duran, CGC | CGC 1522689 | BCC



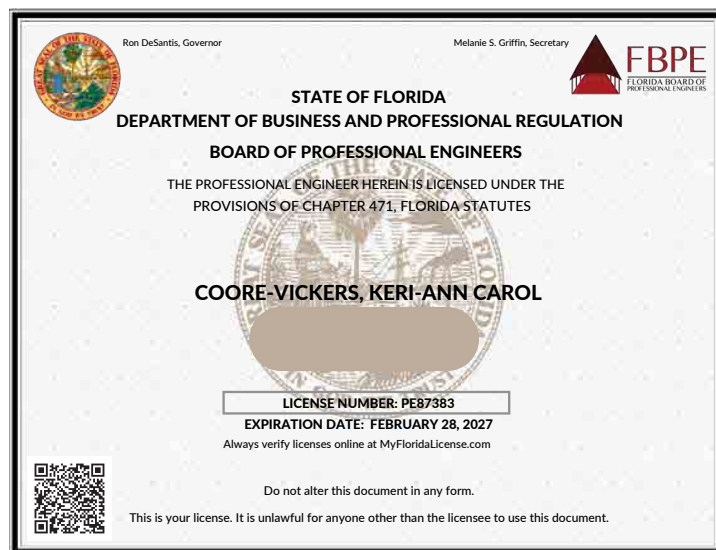
David Tinder, PE | PE58195 | BCC



Dacha Quintana, PE | PE67393 | BCC



Erik Spillmann, PE | PE58771 | BCC



Keri-Ann Coore-Vickers, PE | PE87383 | BCC



Lorin Brisett, PE | PE56846 | BCC



Marcello D'Andrea, PE | PE78421 | BCC



Richard Pick, PE | PE84339 | BCC



# QUALIFICATIONS OF THE PROJECT TEAM



# QUALIFICATIONS OF THE PROJECT TEAM

## TEAM ORGANIZATIONAL PROFILE

The BCC Team assembled for the City of Fort Lauderdale is comprised of individuals who have dedicated their careers to managing structural inspections, rehabilitation design, permitting coordination, and construction-phase services across Florida’s coastal and urban environments. Our local South Florida team is one of the most experienced in the state, with a proven record supporting municipalities through continuing contracts that require responsiveness, collaboration, and technical precision.

We understand the unique needs of Fort Lauderdale, where bridges serve not only as critical infrastructure, but also as vital links within the community. Additionally, the City’s building structures must meet a wide range of needs. The Team proposed for this contract has been hand-picked based upon their direct experience with the City, their familiarity with coastal structure rehabilitation strategies, and their ability to deliver practical, cost-conscious solutions under a task work order framework.



WEST LAKE DRIVE BRIDGE

### Key factors supporting the success of this contract include:

- ✔ Assigning highly qualified professionals with direct experience managing municipal structure contracts
- ✔ Maintaining continuous communication with City staff to address project needs, permitting requirements, and construction support tasks proactively
- ✔ Applying a hands-on project management approach that emphasizes early issue resolution, technical accuracy, and value-driven solutions.
- ✔ Delivering high quality contract documents that prioritize functionality, constructability, cost-effectiveness, and long-term maintainability.

Led by **Joan De la Rosa, PE, FRSE**, our Team is committed to providing seamless, high-quality support to the Town, building on our ongoing partnership and shared commitment to maintaining safe, resilient infrastructure for the community.



The key to successful delivery is taking a redundant, “right-staffed” Team and organizing it for efficiency. As depicted in the Organizational Chart, our Team accomplishes precisely that. The Team is set up to handle any situation that can arise for Fort Lauderdale’s structures!

The Town PM need only to contact our Project Manager, and our Project Manager deploys the layers below. The team will coordinate directly and continuously with our Project Manager, drawing from a pool of shared resources (with more resources on standby if needed) with enough redundancy to meet any schedule on any number of individual concurrent or overlapping assignments. BCC has used this same organizational structure to deliver our continuing structures contracts, including three 5-year cycles of the FDOT District 1 Structures Design contract and the FDOT D6 Repair/Rehabilitation Plans Preparation contract.



### ORGANIZED FOR SUCCESSFUL DELIVERY

The key to successful delivery is taking a redundant, “right-staffed” Team and organizing it for efficiency. As depicted in the Organizational Chart, our Team accomplishes precisely that. The Team is set up to handle any situation that can arise for the Fort Lauderdale structures. Staff has been specifically selected based upon their relevant experience, their high availability, and their experience working together to deliver on continuing services structures contracts. A review of the staff resumes will confirm the quality of experience in their specific area of expertise. The following provides the quality and experience of our proposed key staff. In addition to our Project Manager, these 10 key staff are the individuals that will have the most direct hand in delivering this contract for the City.

# QUALIFICATIONS OF THE PROJECT TEAM

## KEY STAFF



**EUGENE OCHOA, PE**  
PRINCIPAL-IN-CHARGE

YEARS OF EXPERIENCE 34 | FL PE # 53199

With over 34 years of bridge engineering experience, Eugene Ochoa brings technical expertise and seasoned leadership to the delivery of structural projects across Florida. His career has centered on the design and rehabilitation of a broad range of bridge types, including curved steel, precast post-tensioned concrete, and movable bridges, spanning complex conditions such as coastal waterways, rail corridors, and high-traffic urban zones. As Project Principal, Eugene oversees contract execution, staff coordination, quality management, and client interface for multiple continuing services contracts. He has served as Principal-in-Charge or Lead Engineer on high-profile assignments for FDOT Districts 1 and 6, Miami-Dade County, and municipalities such as the City of Fort Lauderdale, the City of Sarasota, and the City of Lighthouse Point.

Eugene's relationship with the City of Fort Lauderdale dates back many years. Under the City's ongoing structural services contract, he has provided principal oversight for task work orders involving inspections, structural evaluations, and rehabilitation design—including the South Ocean Drive Bridge Replacement. His familiarity with the City's infrastructure and internal processes positions him to deliver seamless, consistent support throughout the life of the contract.

### EXAMPLES OF EUGENE'S SIMILAR PROJECT EXPERIENCE

- City of Fort Lauderdale Continuing Structural Services, Fort Lauderdale, FL
- NE 23rd Avenue Seawall Replacement over Kingfisher Waterway, Lighthouse Point, Broward County, FL
- Highway Engineering Services Contract, Miami-Dade County, FL
- Bridge Repair and Structural Engineering Contract, Miami-Dade County, FL
- FDOT District 6 Structures Repair & Rehab, Miami-Dade & Monroe Counties, FL



**BOB FORAND, PE, FRSE**  
QA MANAGER

YEARS OF EXPERIENCE 27 | FL PE # 58611

Bob brings over 27 years of experience in structural engineering, specializing in the design, evaluation, and rehabilitation of complex bridge structures across Florida. As Vice President of BCC Engineering's Structures Practice and leader of the Fort Lauderdale office, Bob has overseen numerous high-profile projects, including the rehabilitation of the historic Old Seven Mile Bridge in Marathon, FL.

In his role as Quality Assurance Manager, Bob will be responsible for overseeing the technical review process across all task orders, ensuring consistency in deliverables, adherence to City standards, and the highest level of quality from initial scoping through final design. His extensive experience and leadership in structural engineering make him uniquely qualified to uphold the City's standards and expectations for this contract.

### EXAMPLES OF CARLOS' SIMILAR PROJECT EXPERIENCE

- Seawall Master Plan, City of Fort Lauderdale
- Structural Services Contract, City of Sarasota
- Districtwide Repair & Rehab, FDOT District 6
- Bridge Repair, Miami-Dade County DTPW
- Structures Design Consultant, FDOT District 1
- Structures Quality Control Reviewer

# QUALIFICATIONS OF THE PROJECT TEAM

## KEY STAFF



**RICHARD PICK, PE**  
DEPUTY PROJECT MANAGER

YEARS OF EXPERIENCE 10 | FL PE # 84339

Continuing services structures contracts need to have depth and redundancy at all staffing levels. For this reason, Richard will serve as BCC's Deputy Project Manager for this contract.

Richard Pick, PE, brings 10 years of experience in bridge and structural engineering, with a specialized focus on rehabilitation, load ratings, and replacement design for FDOT and municipal clients. Based in BCC's Fort Lauderdale office, Richard has served as Engineer of Record on numerous high-profile bridge repair projects throughout South Florida, including coastal structures and prestressed slab unit bridges which is experience that is very relevant to the City's bridge inventory.

His recent experience as Deputy Project Manager for FDOT District 6's Districtwide Structures Repair/Rehabilitation Continuing Services Contract closely parallels the scope of Fort Lauderdale's structural needs. In that role, Richard has overseen task work orders for inspections, field investigations, scoping reports, repair plans, cost estimates, cathodic protection design, and structural retrofits. He has led work on critical assets such as the Port Boulevard Bridge, the Long Key Bridge, and multiple Intracoastal and Overseas Highway structures.

### EXAMPLES OF RICHARD'S SIMILAR PROJECT EXPERIENCE

- Districtwide Structures Repair & Rehab, FDOT District 6 (Deputy PM)
- SR 5/Overseas Hwy over Long Key Channel, Monroe County, FL
- SR 934/NE 79th Street over Intracoastal Canal, Miami-Dade County, FL
- SR 886/Port Blvd over Intracoastal Waterway, City of Miami/PortMiami
- Structures Design Consultant, FDOT District 1



**CHRISTIAN AQUINO, PE, SI, FRSE**  
VERTICAL STRUCTURES LEAD

YEARS OF EXPERIENCE 20 | FL PE # 74647

With 20 years of structural engineering experience, Christian has overseen the design, rehabilitation, and assessment of vertical structures across South Florida. His work spans municipal buildings, utilities infrastructure, bridge, and marine, recreation facilities, and coastal seawalls, making him exceptionally well-suited to support the City's varied inventory of non-bridge structures. Christian has played a key role on several task work orders under the City of Fort Lauderdale's ongoing Structural Engineering Services contract, including serving as Project Manager and Engineer of Record for the Butler Building Reconstruction, City Park Garage Assessment, and Seawall Master Plan. His responsibilities included structural evaluations, development of bid packages, construction oversight, and stakeholder coordination, all aligned with the City's permitting standards and infrastructure goals.

In addition to his municipal work, Christian brings expertise in rehabilitation design, including the use of carbon fiber and other advanced materials to strengthen aging concrete structures. His hands-on experience with construction-phase support and his vast knowledge of vertical systems result in consistent, code-compliant, and constructable solutions for the City.

### EXAMPLES OF CHRIS' SIMILAR PROJECT EXPERIENCE

- Vertical & Structural Services, Fort Lauderdale, FL
- Seawall Master Plan, Fort Lauderdale, FL
- Butler Building Reconstruction, Fort Lauderdale, FL
- City Park Garage Assessment, Fort Lauderdale, FL
- Bridge 865771 West Lake Drive Repair, Fort Lauderdale, FL

# QUALIFICATIONS OF THE PROJECT TEAM

## KEY STAFF



**BILL JUNKIN, PE, SE**  
MOVABLE BRIDGE LEAD/ EOR

YEARS OF EXPERIENCE 50 | FL PE # 43707

Bill brings 50 years of experience in bridge design, rehabilitation, and construction support, with a specialty in movable bridge systems. His background includes the design and rehabilitation of numerous bascule, swing, and fixed bridges throughout South Florida, supporting both structural and mechanical systems.

Bill has led design efforts for bascule bridge projects such as the Brickell Avenue, Second Avenue, and First Street Bascule Bridges in Miami, the Ocean Avenue Bridge in Palm Beach County, and the North Swing Bridge in Placida, FL. His work combines structural engineering expertise with in-depth knowledge of mechanical, electrical, and span balancing systems required for movable structures.

As Movable Bridge Lead and Engineer of Record for this contract, Bill will oversee inspections, evaluations, and rehabilitation strategies for the Broad Causeway bridge, providing technical leadership in both structural and machinery system design to support long-term durability and reliable operations.

### EXAMPLES OF BILL'S SIMILAR PROJECT EXPERIENCE

- FDOT Districtwide Repair Contracts, Districts 1 & 6
- Brickell Avenue Bascule Bridge, Miami, FL
- Second Avenue Bascule Bridge, Miami, FL
- Ocean Avenue Bascule Bridge, Lantana, FL
- North Swing Bridge, Placida, FL
- First Street Bascule Bridge Replacement, Miami, FL
- Curtiss Parkway over C-6 Canal, Miami Springs, FL
- South Hook Square over C-6 Canal, Miami Springs, FL



**DAVID TINDER, PE**  
CEI PROJECT LEAD

YEARS OF EXPERIENCE 29 | FL PE # 58195

David brings over 29 years of transportation engineering experience, including 22 years as a registered PE and over 15 years focused on complex construction engineering and inspection (CEI) for high-profile infrastructure projects across Florida. As Director of Construction Services, he has led CEI efforts for bascule bridges, urban reconstruction, and Design-Build expressway projects involving extensive MOT, stakeholder coordination, and quality compliance.

David's CEI leadership is built on a foundation of experience that includes completing FDOT's 4-year PE Trainee Program, managing a \$1B work program with Miami-Dade County DTPW, and serving as Senior Project Engineer on major Design-Build Express Lanes projects. He understands the full life cycle of infrastructure—from design through construction—and brings a practical, results-driven approach to contractor oversight, field coordination, and issue resolution.

As CEI Project Lead for this contract, David will oversee inspection teams, enforce project compliance, and serve as the primary liaison between contractors, City staff, and design teams—ensuring safety, efficiency, and quality from groundbreaking to closeout.

### EXAMPLES OF DAVID'S SIMILAR PROJECT EXPERIENCE

- I-95 Express Lanes Phase 3A-1, Broward County, FL
- I-95 Express Lanes Phase 2, Miami-Dade & Broward Counties, FL
- SW 2nd Avenue Bascule Bridge Reconstruction, Miami-Dade County, FL
- Meridian Avenue Bridge Reconstruction, Miami Beach, FL

# QUALIFICATIONS OF THE PROJECT TEAM

## KEY STAFF



**CARLOS ALCANTARA, PE**  
ROADWAY LEAD

YEARS OF EXPERIENCE 24 | FL PE # 64760

Carlos brings 23 years of transportation engineering experience focused on roadway design, MOT planning, and traffic control coordination for FDOT and municipal clients across South Florida. Since joining BCC in 2018, he has served as Roadway Lead and MOT Engineer-of-Record on a range of bridge rehabilitation and maintenance projects in dense urban and coastal settings.

His recent experience includes MOT leadership on projects for FDOT District 6, the City of Miami, and the Town of Bay Harbor Islands, where he provided traffic control planning and quality control for the Broad Causeway Bridge rehabilitation. Carlos has led efforts on major Design-Build and districtwide contracts and understands the importance of phased MOT strategies, constructability, and minimizing disruption to the public.

As Roadway and MOT Lead, Carlos will provide oversight of traffic control plans, MOT reviews, and roadway coordination for task orders issued under this contract.

### EXAMPLES OF CARLOS' SIMILAR PROJECT EXPERIENCE

- SR 9 (I-95) Express Lanes Phase 3C Design-Build, Broward County, FL
- Bridge Engineering Services, Town of Bay Harbor Islands, FL
- Districtwide Structures Repair/Rehabilitation Plans Preparation (Contract CA544), Miami-Dade and Monroe Counties, FL
- SR 886/Port Boulevard over Intracoastal Waterway Repair/Rehabilitation, Miami-Dade County, FL
- NW 87th Avenue Northbound and Southbound Over I-75 Bridge Painting, Miami-Dade County, FL



**YULET FERNANDEZ, PE**  
LAP PROJECT COORDINATOR

YEARS OF EXPERIENCE 17 | FL PE # 77028

Yulet has over 15 years of experience in roadway design, project management, and LAP project coordination. She has been a licensed Professional Engineer since 2014.

Yulet specializes in roadway design, signing and pavement markings, signalization, traffic control plans, permitting, and plans review. She has managed and supported projects for FDOT Districts 4 and 6 and for municipalities across South Florida. As LAP Project Coordinator, she brings direct experience delivering federally funded projects, ensuring compliance with FDOT and FHWA requirements, and coordinating permitting and design efforts to support successful project delivery. In this way, Yulet is a key staff member for this contract, as she will provide additional LAP project support to BCC Project Manager Joan De La Rosa.

### EXAMPLES OF YULET'S SIMILAR PROJECT EXPERIENCE

- FDOT District 4 - LAP Project, Miramar Complete Streets Phase III, City of Miramar, FL
- FDOT District 4 - LAP Project, Miramar Complete Streets Phase IV, City of Miramar, FL
- FDOT District 4 - SR 7 from SR-80/Southern Blvd. to SR-704/Okeechobee Blvd. (M&R, Sidewalk Improvements)
- FDOT District 6 - LAP Project, Park West Pedestrian and Bicycle Improvements, Town of Miami Lakes, FL

# QUALIFICATIONS OF THE PROJECT TEAM

## KEY STAFF



**JOHN KURETSKI, PE**  
STRUCTURES QC

YEARS OF EXPERIENCE 39 | FL PE # 40165

John has 37 years of experience in the design and rehabilitation of bridges, retaining walls, foundations and miscellaneous concrete and steel structures. John has vast experience with South Florida bridge projects including the design and oversight of complex interchanges, continuous and curved steel superstructures, and bridges over water including substructures subject to Vessel Collision.

Bridge projects that John has designed or managed range the full gamut: from rural locations to major interchanges and limited access facilities in condensed urban environments, from new construction to repairs, retrofits, and rehabilitation, from minor bridges to major concrete and curved steel (Category 2) structures, as well as structures traversing major waterways.

### EXAMPLES OF JOHN'S SIMILAR PROJECT EXPERIENCE

- City-Wide Bridge Rehab, City of Sarasota
- Bridge Repair, Miami-Dade DTPW
- Highway Engineering Services, Miami-Dade DTPW (QC for Curtiss Parkway, South Hook Square, and SW 57th Ave/Snapper Creek)
- Districtwide Structures Repair & Rehab, FDOT District 6 (26 TWOs)
- Structures Design Consultant, FDOT District 1 (700+ Plan Reviews)
- Bridge Engineering Services, Town of Bay Harbor Islands (Broad Causeway Bridge)



**IVAN LASA**  
CATHODIC PROTECTION LEAD

YEARS OF EXPERIENCE 43

Ivan has over 43 years of experience specializing in the design and implementation of corrosion protection systems for bridge structures. He has designed and prepared plans for more than 200 rehabilitation projects involving galvanic and impressed current cathodic protection. Ivan has worked on Federal Highway Administration research programs, developed specifications for FDOT bridges, and holds patents for innovative corrosion control systems used in marine environments.

As Cathodic Protection Lead, Ivan will oversee corrosion protection strategies for bridge rehabilitation work, supporting design Teams with his expertise in materials performance, cathodic protection systems, and durability planning. His background working with FDOT and municipalities across Florida ensures that bridge assets are rehabilitated with sustainable, long-term corrosion mitigation measures.

### EXAMPLES OF IVAN'S SIMILAR PROJECT EXPERIENCE

- Districtwide Structures Repair/Rehabilitation Plans Preparation (Contract CA544), Miami-Dade and Monroe Counties, FL
- Long Key Bridge, Corrosion Control and Rehabilitation (Bridge No. 900094) – Monroe County, FL
- Districtwide Bridge Engineering Design Contract, Citrus, Hernando, Pasco, Hillsborough, and Pinellas Counties, FL

# ORGANIZATIONAL CHART



- 1 BCC ENGINEERING, LLC**  
**Role:** Groups 3, 4, 5, 6, 7, 10, 13, Utility Coordination (Prime Consultant)
- 2 PARSONS TRANSPORTATION GROUP, INC.**  
**Role:** Group 4, Mechanical, Electrical, Movable Bridge
- 3 HR ENGINEERING SERVICES, INC.** **SBE** **DBE**  
**Role:** Geotechnical
- 4 MANUEL G. VERA & ASSOCIATES, INC.** **DBE**  
**Role:** Group 8
- 5 I.F. ROOKS & ASSOCIATES, INC.**  
**Role:** Photogrammetry
- 6 SMART-SCIENCES, INC.** **M/WBE**  
**Role:** Environmental Permitting
- 7 MEDIA RELATIONS GROUP, LLC** **M/WBE**  
**Role:** Public Involvement
- 8 DADE MOELLER & ASSOCIATES, INC.**  
**Role:** Asbestos Testing
- 9 INTERA INCORPORATED**  
**Role:** Coastal Hydraulics/Scour
- 10 MILLER, LEGG & ASSOCIATES, INC.**  
**Role:** Group 15
- 11 CONCORR, INC.**  
**Role:** Corrosion Testing
- 12 GREENMAN-PEDERSEN, INC.**  
**Role:** Painting, Cathodic Protection, Lead Based Paint
- 13 JANUS RESEARCH, INC.**  
**Role:** Cultural Resources
- 14 KIND DESIGNS** **M/WBE**  
**Role:** Living Shorelines



### QA/QC TEAM

- STRUCTURES QUALITY CONTROL**  
John Kuretski, PE 1 ♦
- ROADWAY**  
Kathy Lajo, PE 1
- TRAFFIC ENGINEERING OPERATIONS**  
Alfred Lurigados, PE 1
- COATINGS/ CATHODIC PROTECTION**  
Paul Vinik, PE 12
- GEOTECHNICAL**  
Hernando R. Ramos, PE 3
- SURVEY/MAPPING**  
Manuel Vera Jr., PSM 4
- PHOTOGRAMMETRY**  
David McKay, PSM, CP 5
- ASBESTOS TESTING**  
Steven A. Lipson, CIH,CSP, CIAQC, CIEC<sup>8</sup>
- CEI**  
William Garcia, PE 1
- PERMITTING**  
Gisele Colbert 6
- CULTURAL RESOURCES**  
James Pepe, MA 13
- LANDSCAPE ARCHITECTURE**  
Brian Shore, RLA 10
- PUBLIC INVOLVEMENT**  
Alicia Gonzalez 7

### CORE ENGINEERING / DESIGN TEAM

<b>STRUCTURES DESIGN</b> Joan De La Rosa, PE, FRSE 1 ♦	<b>BRIDGE INSPECTION</b> Ana Gonzalez, CBI 1	<b>SIGNALIZATION</b> Dacha Quintana, PE 1
<b>VERTICAL STRUCTURES</b> Christian Aquino, PE, SI, FRSE 1 ♦	<b>LAP PROJECT COORDINATOR</b> Yulet Fernandez, PE 1 ♦	<b>ITS / LIGHTING</b> Erik Spillmann, PE 1
<b>MOVABLE BRIDGE LEAD/ EOR</b> Bill Junkin, PE 1 ♦	<b>ROADWAY</b> Carlos Alcantara, PE 1 ♦	<b>SIGNING &amp; PAVEMENT MARKING</b> Keri-Ann Coore-Vickers, PE 1
<b>MECHANICAL</b> Jeffrey Keyt, PE 2	<b>MAINTENANCE OF TRAFFIC</b> Jamie Vu, PE 1	<b>TRAFFIC ENGINEERING</b> SungRyong Han 1
<b>ELECTRICAL</b> Alejandro Gari, PE 2	<b>CONSTRUCTION ENGINEERING INSPECTION</b> David Tinder, PE 1 ♦ Marcello D'Andrea, PE 1	<b>PLANNING</b> Lorin Brisett, PE 1
<b>ARCHITECTURE</b> Jorge L. Estevez, AIA 2		

### SUPPORT TEAM

<b>ASBESTOS TESTING</b> Candice Zammataro, CIH, CIEC, MRSA 8 Claudia Castro 8	<b>GEOTECHNICAL</b> Chatuphat Savigamin, PHD, PE 3 David Ramos, PE 3	<b>UTILITY COORDINATION</b> Ricardo Duran, CGC 1	<b>COASTAL HYDRAULICS/ SCOUR</b> Mark Gosselin, PhD, PE 9
<b>COATINGS</b> Aaron Speisman 12 Chad Di Benedetto 12	<b>CORROSION TESTING</b> Ali Akbar Sohanghpurwala 11	<b>PUBLIC INVOLVEMENT</b> Dayana Sanjurgo 7 Vanessa Salinas 7	<b>SURVEY</b> Mark Sowers, PSM 4 Carlos Alonso, PSM, EI 4
<b>CATHODIC PROTECTION</b> Ivan Lasa 12 ♦ Frank Morales Casal 12	<b>CULTURAL RESOURCES</b> Amy Streelman, MHP 13 Max Imberman, MA 13	<b>LANDSCAPE ARCHITECTURE</b> Miguel Juncal, RLA, CA 10	<b>PHOTOGRAMMETRY</b> David Vineyard, CP 5
		<b>PERMITTING</b> Valerie Mebane 6 Matthew White 6	<b>LIVING SHORELINES</b> Leandro Fernandez, PE 14

- ### LEGEND
- ♦ Key Personnel
  - DBE** Disadvantaged Business Enterprise
  - SBE** Small Business Enterprise
  - M/WBE** Minority/ Woman Business Enterprise



## EUGENE OCHOA, PE

### PRINCIPAL-IN-CHARGE

#### FIRM

BCC Engineering, LLC

YEARS OF EXPERIENCE 34

#### EDUCATION

BS in Civil Engineering  
1991, Florida International  
University

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 53199, 1998

Missouri No.  
2016009836, 2016

North Carolina No.  
03937, 2022

NCEES National  
Certification No. 37045

Mr. Ochoa has over 34 years of experience specializing in the design and rehabilitation of bridges, predominantly in Florida. His experience includes the full range of bridge types from curved structural steel bridges, to precast post-tensioned concrete members. Mr. Ochoa has served as Responsible-in-Charge, Project Manager, and Lead Engineer for a multitude of high profile FDOT bridge projects requiring considerations ranging from railroads and airports to coastal projects and major Florida waterways. Mr. Ochoa is a highly experienced Project Manager involved in the supervision of engineering staff; management of numerous transportation projects, coordination with subconsultants, coordination with Clients, and the public.

### RELEVANT EXPERIENCE

**CITY OF FORT LAUDERDALE CONTINUING STRUCTURAL SERVICES | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE, PUBLIC WORKS/ENGINEERING SERVICES | PROJECT DURATION: 2016 - ONGOING | PRINCIPAL** | Structural Engineering Services for City of Fort Lauderdale owned structures. Task work order assignments included structural design, assessments, inspections, and public agency and stakeholder coordination for City structural projects. Served as Principal in Charge for the continuing contract and the South Ocean Drive Bridge Replacement.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | PRINCIPAL** | Bridge Task Work Order (TWO) assignments including inspections, evaluations, and repairs. Served as Structures Project Principal for the Curtiss Parkway and South Hook Square bridge repair project

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | PRINCIPAL** | Continuing contract for bridge Task Work Order (TWO) bridge repair assignments. Served as Structures Project Principal for the SW 288th St Over Canal C-103-N Bridge Repair and the NW 22nd Ave and NW 67th Ave Canal C-8 retrofits.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2024 - ONGOING | PRINCIPAL** | Continuing Services Contract involving 11 miscellaneous Task Work Order (TWO) assignments to date involving bridge repairs and overhead sign structures.

**NW 136TH AVENUE OF NORTH FORK OF THE NEW RIVER CANAL | SUNRISE, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2016 - 2019 | ENGINEER-OF-RECORD** | This project consists of the structural design of a three span continuous conventionally reinforced vehicular bridge over the New River Canal. The continuous slab was supported on pile bents that made of a reinforced concrete cap on prestressed concrete piles. Responsible for the complete analysis design of superstructure, substructure, and foundations systems of the bridge.

**PRIVATE SEAWALL REPLACEMENT FOR NE 23RD AVENUE OVER KINGFISHER WATERWAY | BROWARD COUNTY, FL | PRIVATE | PROJECT DURATION: 2014 | PROJECT MANAGER** | Responsible for the design and construction plans for the replacement of the existing seawalls adjacent to the bridge replacement project. The project includes approximately 240 feet of bulkhead wall consisting of aluminum sheet piles with a concrete cap to replace the existing sea wall constructed of stone and mortar. Coordination was required with the contractor, FDOT, private owners, Broward County, and the City of Lighthouse Point.

**STRUCTURES DESIGN CONSULTANT | LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL | FDOT DISTRICT 1 | PROJECT DURATION: 2023 - 2028 | PRINCIPAL** | Three consecutive 5-year cycles of this contract included structure analysis, bridge repairs/retrofits, and over 700 "Plan Review" assignments.

**WEST VENETIAN CAUSEWAY DESIGN-BUILD PROJECT | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY | PROJECT DURATION: 2014 - 2016 | CHIEF ENGINEER** | Chief Engineer responsible for the design to rehabilitate the westernmost portion of the historical Venetian Causeway Bridge (No. 874459).



## JOAN DE LA ROSA, PE, FRSE

### PROJECT MANAGER

#### FIRM

BCC Engineering, LLC

YEARS OF EXPERIENCE 22

#### EDUCATION

MS in Civil Engineering,  
Florida International  
University, 2008

BS in Civil Engineering,  
Florida International  
University, 2007

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 74705

Georgia No. 044961

Texas No. 134781

Puerto Rico No. 28227

Mr. De La Rosa is a Professional Structural Engineer with 22 years of experience in structural design. He is a Project Manager for BCC's Miami Office and the BCC Miami Structures Division Manager. His background includes design, plans production and load ratings for transportation bridge design and repair projects. Mr. De La Rosa has served as the Engineer-of-Record (EOR), Project Manager and Project Engineer for various agencies including the Town of Bay Harbor Islands, the Florida Department of Transportation (FDOT) Districts 3, 4, 5, 6, 7, Florida Turnpike Enterprise (FTE), Miami-Dade Expressway Authority (MDX) and Miami-Dade County Department of Transportation and Public Works. His concrete bridge design experience includes short span flat slab bridges, AASHTO girder bridges, and Florida-I Beam bridges. He has extensive bridge experience including work with the Town of Bay Harbor Islands as well as experience serving as Project Manager on similar contracts. In this way, his optimal blend of bridge repair contract management experience, in particular unifying a large Team to deliver the common goal of the Town of Bay Harbor Islands bridge contract, make Mr. De La Rosa the perfect choice to serve as the BCC Project Manager for this important project.

### RELEVANT EXPERIENCE

**CITY OF FORT LAUDERDALE CONTINUING STRUCTURAL SERVICES | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE, PUBLIC WORKS/ENGINEERING SERVICES | PROJECT DURATION: 2016 - ONGOING | PROJECT ENGINEER AND QC REVIEWER FOR THE SEAWALL MASTER PLAN** | Structural Engineering Services for City of Fort Lauderdale owned structures. Task work order assignments included structural design, assessments, inspections, and public agency and stakeholder coordination for City structural projects. Joan served as the Project Engineer and QC Reviewer for the **Seawall Master Plan**. This assignment inspected, assessed, and prioritized repairs for 4.3 miles of seawall structures and 2.0 miles of natural banks.

**CITY-WIDE BRIDGE REHABILITATION CCNA CONTINUING SERVICES CONTRACT | SARASOTA COUNTY, FL | CITY OF SARASOTA ENGINEERING DEPARTMENT | PROJECT DURATION: 2021 - ONGOING | PROJECT ENGINEER** | Structural Engineering consulting engineering services relative to the preparation of drawings, specifications, permits, and other documents needed for the City of Sarasota to rehabilitate and maintain bridges and box culverts city-wide.

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS (E20-DTPW-02) | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | PEER REVIEW** | Continuing contract for bridge Task Work Order (TWO) assignments including inspections, repairs, and peer reviews. Project Role: Project Manager for the Ludlum Trail/Coral Way Pedestrian Bridge, SW 248th St Canal C-102 bridge replacement, Venetian Causeway Peer Review. Structures EOR for the NW 22nd Ave and NW 67th Ave Canal C-8 retrofits.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | DEPUTY PROJECT MANAGER** | Continuing contract for Task Work Order (TWO) assignments. Project Role: Structures Lead for the SW 57th Ave/Snapper Creek Bridge urgent repair.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2019 - ONGOING | DEPUTY PROJECT MANAGER** | Continuing Contract involving 11 miscellaneous Task Work Order (TWO) assignments to date including inspections, evaluations, and bridge repairs. Project Role: Deputy Project Manager.

**TOWN OF BAY HARBOR ISLANDS BRIDGE ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | TOWN OF BAY HARBOR ISLANDS PUBLIC WORKS DEPARTMENT | PROJECT DURATION: 2019 - ONGOING | PROJECT MANAGER/ENGINEER OF RECORD** | Continuing contract involving bridge repairs and studies. Project Role: Project Manager/Engineer of Record for BC-161 (Bridge No. 875105 West Relief Bridge Repair and Rehabilitation, BC-162 Bridge No. 875102 Waterway Bridge Repair and Rehabilitation.



## RICHARD PICK, PE

### DEPUTY PROJECT MANAGER

#### FIRM

BCC Engineering, LLC

YEARS OF EXPERIENCE 10

#### EDUCATION

MS in Civil Engineering,  
2014, University of Florida

BS in Civil Engineering,  
2013, University of Florida

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer,  
Florida No. 84339, 2017

Mr. Pick is a Professional Structural Engineer with 10 years of experience in structural design. He is a Project Manager at BCC's Fort Lauderdale Office. His background includes design, plan production and load ratings for transportation bridge design projects. Mr. Pick has served as the Engineer-of Record (EOR) and Project Engineer for Florida Department of Transportation (FDOT) Districts 1, 3, 4, 5, and 6. His bridge design experience includes short span flat slab bridges, AASHTO girder bridges and Florida-I Beam bridges, Steel-I Girder bridges, and Steel-Tub Girder bridges. His experience also includes design and analysis of miscellaneous structures including MSE walls, temporary walls, mast arms, strain poles, sign structures, overhead cantilever and span structures. Mr. Pick's experience delivering South Florida continuing service structures contracts such as the FDOT District 6 Bridge Repair/Rehabilitation Plans Preparation contract make him exceptionally suited to provide redundant support as the Deputy Project Manager for this contract.

### RELEVANT EXPERIENCE

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION (FPID NO. 250647-4-32-01; CONTRACT CAR85) | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2024 - ONGOING | DEPUTY PROJECT MANAGER |** Continuing Services Contract involving 11 miscellaneous Task Work Order (TWO) assignments to date involving bridge repairs and replacement of overhead sign structures.

**DISTRICTWIDE STRUCTURES REPAIR/REHABILITATION PLANS PREPARATION (FPID NO.: 250647-2-32-06; CONTRACT NO.: CA544) | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2019 - 2025 | ENGINEER-OF-RECORD |** Continuing Services Contract involving 20 miscellaneous Task Work Order (TWO) assignments to date including inspections and evaluations, scoping reports, bridge repairs (bridge deck cracking, spall repairs, slope stabilization...), structural steel painting, cathodic protection systems, safety and geometry improvements, bridge approach improvements, wingwall repairs and reconstruction, and scour countermeasures. Projects include:

- **SR 5/OVERSEAS HWY OVER LIGUMVITAE CHANNEL REPAIR/REHABILITATION BRIDGE NO. 900096 | MONROE COUNTY, FL | ENGINEER-OF-RECORD |** Project involved repairs to a 902-foot long AASHTO girder bridge supporting the Overseas Highway in the Florida Keys.
- **SR 934/NE 79TH ST OVER INTRACOASTAL CANAL FENDER SYSTEM REPLACEMENT BRIDGE NOS. 870085 & 870551 | MIAMI-DADE COUNTY, FL | ENGINEER-OF-RECORD |** This project involved replacement of the existing fender system for a 1,025-foot long bascule bridge carrying NE 79th St traffic over the Intracoastal Canal.
- **SR 886/PORT BOULEVARD OVER INTRACOASTAL WATERWAY REPAIR/REHABILITATION BRIDGE NOS. 875000 & 875001 | MIAMI-DADE COUNTY, FL | ENGINEER-OF-RECORD |** The Port Boulevard Bridge is located between the City of Miami and Port of Miami. The bridge serves as a vital link between Miami and the Port, considering that the Miami Tunnel is the only alternative route.
- **SR 934/NE 79TH ST OVER EAST BISCAYNE BAY BRIDGE NOS. 870084 & 870550 FIELD INVESTIGATION AND COST ESTIMATE | MIAMI-DADE COUNTY, FL | ENGINEER-OF-RECORD |** This project involves two existing bridges. Bridge Nos. 870084 and 870550 that connect North Bay Island and Treasure Island within North Bay Village in Miami-Dade County. The bridges are twin bridges, 509 feet long, comprised of prestressed, transversely post-tensioned Sonovoid Slab units supported on pile bents. BCC updated the load rating and prepared a cost estimate for repairs.
- **SR 5/OVERSEAS HWY OVER LONG KEY CHANNEL REPAIR/REHABILITATION BRIDGE NO. 900094 (FPID NO. 441968-1-52-01) | MONROE COUNTY, FL | ENGINEER-OF-RECORD |** The Long Key Bridge is located along SR 5/Overseas Highway in the Middle Keys at MM 63.2. The bridge serves as a vital link between Long Key and Conch Key.

**STRUCTURES DESIGN CONSULTANT | LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL | FDOT DISTRICT 1 | PROJECT DURATION: 2023 - 2028 (EST.) | PROJECT ENGINEER |** Three consecutive 5-year cycles of this contract included structure analysis, bridge repairs/retrofits, and over 700 "Plan Review" assignments.



## BOB FORAND, PE, FRSE

### QA MANAGER

#### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 27

#### EDUCATION

BS in Architectural Engineering,  
University of Miami, 1996

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 58611

Georgia No. 043811

South Carolina No.  
36851

Texas No. 134473

Mr. Forand has worked in the design and management of bridge rehabilitation and repair projects for over 27 years. Repair projects that Mr. Forand has designed or managed include the full spectrum of bridge lengths, types, and locations including extensive experience repairing long Florida coastal concrete and steel bridges over salt water (including the Florida Keys), involving aspects such as bridge jacking, bearing replacements, and the three primary types of cathodic protection systems (impressed current, anode, and metalizing). A Bridge Maintenance project veteran, Mr. Forand takes a particularly keen interest in minimizing risk and avoiding claims using practical design and responsive service during Construction, which is further bolstered by his extensive Design-Build project experience. An effective communicator, Mr. Forand's proven performance delivering Bridge assignments with the exact same work mix as this Town of Bay Harbor Islands bridge contract qualifies him to serve as Deputy Project Manager to further ensure that the Town's expectations are exceeded. In this way, his optimal blend of bridge repair contract management experience, in particular unifying a large Team to deliver the common goal of the Old 7 Mile bridge repair, make Mr. Forand the perfect choice to serve as the BCC Project Manager for this important project.

### RELEVANT EXPERIENCE

**CITY OF FORT LAUDERDALE CONTINUING STRUCTURAL SERVICES | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE, PUBLIC WORKS/ENGINEERING SERVICES | PROJECT DURATION: 2016 - ONGOING | PROJECT MANAGER AND ENGINEER-OF-RECORD FOR**

**THE SEAWALL MASTER PLAN** | Structural Engineering Services for City of Fort Lauderdale owned structures. Task work order assignments included structural design, assessments, inspections, and public agency and stakeholder coordination for City structural projects. Project Role: Project Manager and Engineer-of-Record for the **Seawall Master Plan**. This assignment inspected, assessed, and prioritized repairs for 4.3 miles of seawall structures and 2.0 miles of natural bank.

**CITY-WIDE BRIDGE REHABILITATION CCNA CONTINUING SERVICES CONTRACT | SARASOTA COUNTY, FL | CITY OF SARASOTA ENGINEERING DEPARTMENT | PROJECT DURATION: 2022 - ONGOING | PROJECT MANAGER** | Structural Engineering consulting engineering services relative to the preparation of drawings, specifications, permits, and other documents needed for the City of Sarasota to rehabilitate and maintain bridges and box culverts city-wide.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | PROJECT MANAGER FOR THE CURTISS PARKWAY AND SOUTH HOOK SQUARE BRIDGE REPAIR PROJECTS, AND THE SW 57TH AVE/SNAPPER CREEK BRIDGE URGENT REPAIR** | Bridge Task Work Order (TWO) assignments including inspections, evaluations, and repairs.

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS (E20-DTPW-02) | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | PROJECT MANAGER** | Continuing contract for bridge Task Work Order (TWO) assignments including inspections and repairs. Project Role: Project Manager for the SW 288th St Over Canal C-103-N Bridge Repair and the NW 22nd Ave and NW 67th Ave Canal C-8 retrofits.

**STRUCTURES DESIGN CONSULTANT | LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL | FDOT DISTRICT 1 | PROJECT DURATION: 2023 - 2028 (EST.) | PROJECT MANAGER** | Three consecutive 5-year cycles of this contract included structure analysis, bridge repairs/retrofits, and over 700 "Plan Review" assignments.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION (FM NO. 250647-2-32-02; CONTRACT C9331) | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2011 - 2022 | PROJECT MANAGER/ENGINEER OF RECORD** | Continuing Services Contract involving 26 miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs.



# CHRISTIAN AQUINO, PE, SI, FRSE

## VERTICAL STRUCTURES LEAD

### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 20

### EDUCATION

MS in Civil Engineering,  
University of Miami, 2008

BS in Civil Engineering,  
University of Miami, 2007

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 74647

Texas No. 141819

Special Inspector No.  
74647

Mr. Aquino has 20 years of experience and currently serves as Director of the Building Structures Department. During this time, He has been involved in design development through construction administration for a variety of project types in the private and public sector throughout Florida such as residential (single and multi-family), commercial, mixed-use, waste/wastewater treatment, municipal, institutional, parks and recreation, and highway (sign structures and bridges). Mr. Aquino also has experience in repair and rehabilitation projects using conventional and innovative solutions. His master's thesis focused on concrete rehabilitation of damaged and structurally deficient concrete bridge girders using carbon fiber. Mr. Aquino has also performed in-situ load tests on balconies to determine any structural deficiencies and repair needs.

Drawing from his experience in a wide variety of projects, Chris' personal philosophy is that no matter what type or size a project is, the structural engineer's design should be cost effective, as simple as possible for contractors, and most importantly, achieve the Client's vision.

## RELEVANT EXPERIENCE

**CITY OF FORT LAUDERDALE STRUCTURES CONSULTANT | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE (PUBLIC WORKS/ENGINEERING SERVICES) | PROJECT DURATION: 2016 - PRESENT | PROJECT MANAGER** | Miscellaneous task work order assignments including structural design, assessments, inspections, and public agency and stakeholder coordination for City structural projects. Assignments include:

- **SEAWALL MASTER PLAN | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2016 - 2017 | PROJECT MANAGER** | The City owns approximately 4.3 miles of seawall structures and 2.0 miles of natural banks. This task work order required the assessment of the comprehensive needs of these structures and banks, and development of a Seawall Master Plan. The Plan consisted of individual assessment reports for each component, as well as a report summarizing the findings and recommendations to included feasible solutions, impacts, and cost estimates. Seawall assessments included inspection of existing structures (above and below water), and recommendations for the seawall infrastructure in need of rehabilitation or replacement. The Plan also addressed potential structural modifications and bank needs to address the challenges associated with Sea Level Rise (SLR). BCC completed the assignment on an aggressive four-month schedule in order to have the report finalized so projects could be budgeted for the Fiscal Year.
- **REPAIR AND REHABILITATION WEST LAKE DRIVE BRIDGE OVER THE ESTELLE RIVER - BRIDGE 865771 | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2020 - ONGOING | ENGINEER-OF-RECORD** | The bridge is a reinforced concrete double tee-beam superstructure supported by prestressed pile bents and consists of five 20-foot-long spans. The bridge carries West Lake Drive over Estelle River in Broward County, Florida. The bridge was constructed in 1956 and serves as the sole vehicular access into approximately 85 local residences north of the structure. Beam and pile deficiencies identified in the 12/1/16 "Special-Other Bridge Inspection Report" resulted in a Prompt Corrective Action – Critical Bridge Deficiency letter being sent to the City by the Florida Department of Transportation District 4 (FDOT). A 10-ton weight restriction was placed on the bridge and a Load Rating performed by FDOT. The project scope consists of assessing the condition of the existing bridge by inspecting the top, underside, and underwater of the structure, documenting any deficiencies and providing structural repair documents. BCC was responsible for coordinating all permits, producing signed and sealed structural repair drawings and calculations suitable to file with the building department, a new Load Rating Report and ultimately for bidding and construction. BCC is also responsible for inspecting the contractor's work and reviewing and approving shop drawings.

**CITY OF FORT LAUDERDALE TRAFFIC AND TRANSPORTATION ENGINEERING CONSULTANT SERVICES CONTINUING CONTRACT | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2015 - 2020 | PROJECT MANAGER** | BCC provided professional services related to a continuing contract for traffic and transportation engineering consultant services.



## BILL JUNKIN, PE, SE

### MOVABLE BRIDGE LEAD

#### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 50

#### EDUCATION

MS in Civil Engineering,  
Louisiana State University,  
1975

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 43707

Georgia No. 047212

Louisiana No. 18313

Texas No. 141027

Structural Engineer

Georgia No. 001192

Mr. Junkin has over 50 years of notable experience in the design and construction of bridges, structures and other civil works. Mr. Junkin has been significantly involved in the design of many major fixed and movable bridges, these efforts including both new and rehabilitation designs. Along with his extensive design experience, Mr. Junkin spent an 11-year tenure at a large Contractor, GLF, in the management of engineering activities for both permanent and temporary works, engineering technical support and evaluations on complex issues associated with field operations, and the engineering design of temporary works for the construction of numerous bridges and marine projects. In addition to his extensive structural background, Mr. Junkin has extensive machinery and functional design experience in conjunction with a thorough working knowledge of control and power systems required for movable bridges

### RELEVANT EXPERIENCE

**CITY-WIDE BRIDGE REHABILITATION CCNA CONTINUING SERVICES CONTRACT (RFQ 21-72A0) | SARASOTA COUNTY, FL | CITY OF SARASOTA ENGINEERING DEPARTMENT | PROJECT DURATION: 2022 - ONGOING | PROJECT ENGINEER AND QC REVIEWER |** Structural Engineering consulting engineering services relative to the preparation of drawings, specifications, permits, and other documents needed for the City of Sarasota to rehabilitate and maintain bridges and box culverts city-wide.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | STRUCTURES ENGINEER-OF-RECORD |** 2 Task Work Order (TWO) assignments involving repair of historic bridges adjacent

to Miami Springs: Curtiss Parkway Over Miami (C-6) Canal Bridge No. 874130, a 105' long, 2-span steel Warren pony truss bridge; South Hook Square Over Miami (C-6) Canal Bridge No. 874129, a 132' long single span steel Parker truss lift span.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATIONS (FPID NO. 250647-2-32-06; CONTRACT CA544) | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2019 - ONGOING | SENIOR STRUCTURAL AND BRIDGE ENGINEER |** Continuing Services Contract involving Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs.

**STRUCTURES DESIGN CONSULTANT | LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL | FDOT DISTRICT 1 | PROJECT DURATION: 2023 - 2028 (EST.) | CHIEF ENGINEER, MECHANICAL SYSTEMS ENGINEER, STRUCTURAL STEEL, MACHINERY & SPAN BALANCING |** Three consecutive 5-year cycles of this contract included structure analysis, bridge repairs/retrofits, and over 700 "Plan Review" assignments. Project Role: Project Engineer handling Plans Review assignments as well as Value Engineering Studies.

**BRICKELL AVENUE BASCULE BRIDGE | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: 1986 - 1992 | PROJECT MANAGER, CHIEF BRIDGE ENGINEER, ENGINEER-OF-RECORD (STRUCTURAL AND MACHINERY DESIGN) |** New six lane, twin-span, double-leaf trunnion bascule bridge replaced an existing four lane bascule bridge in downtown Miami over the Miami River.

**SECOND AVENUE BASCULE BRIDGE | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: 1996 - 2003 | CHIEF BRIDGE ENGINEER, ENGINEER-OF-RECORD (STRUCTURAL & MACHINERY DESIGN) |** This landmark project was a replacement of an existing two-lane bascule bridge and approaches with a four lane, double leaf trunnion bascule bridge in downtown Miami over the Miami River.

**OCEAN AVENUE BASCULE BRIDGE | LANTANA, FL | PALM BEACH COUNTY | PROJECT DURATION: 2011 - 2014 | JOB SPONSOR, CHIEF ENGINEER, MECHANICAL SYSTEMS ENGINEER, STRUCTURAL STEEL, MACHINERY, ELECTRICAL EQUIPMENT & SPAN BALANCING PROCUREMENT MANAGER, SPECIALTY ENGINEER FOR PRECAST FOUNDATION SEAL/FORM SLABS |** This project, which was predominantly a marine based operation, involved the replacement of the existing bascule bridge over the AIWW with a double leaf bascule span with approaches along the same alignment.

**NORTH SWING BRIDGE REPLACEMENT | PLACIDA, FL | GASPARILLA ISLAND BRIDGE AUTHORITY | PROJECT DURATION: 2013 - 2016 | CHIEF ENGINEER, MECHANICAL SYSTEMS ENGINEER, STRUCTURAL STEEL, MACHINERY & ELECTRICAL EQUIPMENT |** This predominantly marine based construction involved the replacement of the existing swing bridge over the GIWW with an equal arm swing span in an offset alignment.



## JOHN KURETSKI, PE

### STRUCTURES QC

#### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 39

#### EDUCATION

BS in Civil Engineering,  
University of Miami, 1984

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 40165, 1988

Mr. Kuretski has 39 years of experience in the design and rehabilitation of bridges, retaining walls, foundations and miscellaneous concrete and steel structures. Mr. Kuretski has extensive experience with South Florida bridge projects including the design and oversight of complex interchanges, continuous and curved steel superstructures, and substructures subject to Vessel Collision. Bridge projects that Mr. Kuretski has designed or managed range the full gamut: from rural locations to major interchanges and limited access facilities in condensed urban environments; from new construction to repairs, retrofits, and rehabilitation; from minor bridges to major concrete and curved steel (Category 2) structures; as well as structures traversing major waterways, roadways, railroads, and critical utilities such as Florida Keys Aqueduct, Florida Gas Transmission, and jet fuel lines servicing the Miami International Airport fuel farm. Mr. Kuretski has also designed or managed condensed-schedule projects to include Design-Bid, Design-Build, and on-call Post Design contractor support services. Mr. Kuretski serves as Quality Control Reviewer for BCC's major bridge projects involving major complex bridge structures. He

is intimately familiar with FDOT policies and procedures, having serviced Districtwide Contracts in Districts 1, 4, 6, and Florida's Turnpike Enterprise. In this way, his optimal blend of South Florida and FDOT structures design and contract experience, in particular as Structures Quality Control Reviewer on the Town of Bay Harbor Island and District 6 Bridge Rehabilitation contracts, make Mr. Kuretski very well suited to serve as the BCC Structures Quality Control Reviewer for this important project.

## RELEVANT EXPERIENCE

**CITY-WIDE BRIDGE REHABILITATION CCNA CONTINUING SERVICES CONTRACT | SARASOTA COUNTY, FL | CITY OF SARASOTA ENGINEERING DEPARTMENT | PROJECT DURATION: 2022 - ONGOING | STRUCTURES QUALITY CONTROL REVIEWER** | Structural Engineering consulting engineering services relative to the preparation of drawings, specifications, permits, and other documents needed for the City of Sarasota to rehabilitate and maintain bridges and culverts city-wide.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | STRUCTURES QUALITY CONTROL REVIEWER** | Bridge Task Work Order (TWO) assignments including inspections, evaluations, and repairs. Mr. Kuretski serves as Quality Control Reviewer for the Curtiss Parkway and South Hook Square bridge repair projects, and the SW 57th Ave/Snapper Creek Bridge urgent repair.

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | STRUCTURES QUALITY CONTROL REVIEWER** | Continuing contract for bridge Task Work Order (TWO) assignments including inspections and repairs. Mr. Kuretski serves as Quality Control Reviewer for the SW 288th St Over Canal C-103-N Bridge Repair and the NW 22nd Ave and NW 67th Ave Canal C-8 retrofits.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2011 - 2022 | STRUCTURES QUALITY CONTROL REVIEWER** | Continuing Services Contract involving 26 miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs.

**STRUCTURES DESIGN CONSULTANT | LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL | FDOT DISTRICT 1 | PROJECT DURATION: 2023 - 2028 (EST) | STRUCTURES QUALITY CONTROL REVIEWER** | Three consecutive 5-year cycles of this Continuing services contract included miscellaneous structure analysis, bridge repairs/retrofits, and over 700 Plan Review assignments.

**TOWN OF BAY HARBOR ISLANDS BRIDGE ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | TOWN OF BAY HARBOR ISLANDS PUBLIC WORKS DEPARTMENT | PROJECT DURATION: 2019 - ONGOING | QUALITY CONTROL REVIEWER FOR BC-158 (BRIDGE NO. 875101 BROAD CAUSEWAY BRIDGE REPAIR AND REHABILITATION** | Continuing contract involving bridge repairs and studies.

**SR 9 (I-95) EXPRESS LANES PHASE 3C DESIGN-BUILD (95 EXPRESS/I-595 DIRECT CONNECTORS, SR 9/I-95 FROM STIRLING ROAD TO BROWARD BOULEVARD, SR 9/I-95 AT SR 862/ I-595 BRIDGE PAINTING | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2018 - 2026 (EST) | STRUCTURES QUALITY CONTROL REVIEWER** | This major project involved the design of 35 bridge structures.



# KATHY LAJO, PE

## ROADWAY QUALITY CONTROL

**FIRM**  
BCC Engineering, LLC

**YEARS OF EXPERIENCE** 28

**EDUCATION**  
MS in Information  
Technology, American  
Intercontinental University,  
2002

BS in Civil Engineering,  
Florida International  
University, 1996

**REGISTRATIONS/  
CERTIFICATIONS**  
Professional Engineer,  
Florida No. 63068, 2005

Professional Engineer,  
Puerto Rico No. 28254,  
2021

Ms. Lajo has 28 years of experience in design, plans production, and management for FDOT transportation projects in Miami-Dade County, Broward County, and other municipalities. Her experience includes roadway design, pavement design, signing and pavement markings, drainage, lighting, and signalization. Ms. Lajo supervises design teams and is responsible for project management, client liaison, budgets, and coordination with local municipalities and state government agencies.

### RELEVANT EXPERIENCE

**SOUTH OCEAN DRIVE BRIDGE REPLACEMENT | FORT LAUDERDALE, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2018 - 2021 | PROJECT MANAGER** | BCC personnel provided the City of Fort Lauderdale design, permitting, procurement services, and post design for the demolition and construction of the South Ocean Drive Bridge over the Marion River (Bridge No. 865775). The existing bridge is an 80' four span, reinforced concrete double T-beam Bridge constructed in 1952 and rehabilitated in 1968. The Bridge is located on South Ocean Drive between Marion and Mayan Drives. Given the age and corrosive environment this Bridge is located, BCC is designing a new structure that is sufficiently durable and resilient to environmental effects (corrosion), rising sea levels/storm surges, is sustainable, mitigates maintenance requirements, and provides a safe, rideable corridor for the traveling public. This Project includes the development of demolition plans of the existing bridge and construction of the new bridge, assisting the City with the procurement process to select a contractor, and then providing post design services on behalf of the City during construction operations (e.g. shop drawing reviews, attendance at construction progress meetings, respond to RFI's, etc.). BCC has developed a design that includes aesthetic features (e.g., railings, color, etc.) and that increases the vertical clearance under the bridge for boats and addresses rising seas and storm surge.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | ROADWAY LEAD** | Continuing Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs. Project Role: Roadway Lead for the Design of Rehabilitation and Painting for the Historic Curtiss Parkway Bridge #874130 Over the Miami Canal.

**VILLAGE OF KEY BISCAYNE - CONTINUING ARCHITECTURAL & ENGINEERING SERVICES | KEY BISCAYNE, FL | VILLAGE OF KEY BISCAYNE | PROJECT DURATION: 01/2022 - 2023 | SENIOR PROJECT ENGINEER** | BCC was involved in coordinating with the Village of Key Biscayne, Miami-Dade County, Miami-Dade Transit, and other relevant entities to gather available existing data to be evaluated as part of the design of the improvements including (As-Built Plans, Right-of-way Maps, Drainage maps, etc.). BCC was involved in Roadway Design, Drainage Evaluation, Signing & Marking, Signalization, Lighting and conducted field reviews to visually assess existing conditions, confirm measurements and constraints to account for in the design of the improvements.

**FIU PEDESTRIAN BRIDGE OVER SR90/SW 8TH STREET & C-4 CANAL & SW 109TH AVENUE | SWEETWATER, FL | FDOT DISTRICT 6 | PROJECT DURATION: 04/2021 - 7/2023 | PROJECT MANAGER** | The design services include Urban Design elements and Infrastructure components of this project. The improvements will consist of a "Signature" pedestrian-oriented shared-use Bridge across SW 8th Street/SR 90 and the C-4 Canal. SW 8th Street/SR 90 is a major arterial roadway which obstructs pedestrian movements between Sweetwater and the FIU Campus. Pedestrian plazas at the bridge landing on the FIU Campus (South Plaza) and at the bridge landing on the City of Sweetwater (North Plaza). Also, an urban Memorial Plaza in the City of Sweetwater and Pedestrian-oriented streetscape enhancements to be created by narrowing 109th Avenue between SW 7th Terrace and SW 6th Street by reducing the existing 3 traffic lanes to 2 traffic lanes. The enhancements will include upgraded sidewalk paving materials, enhanced shade trees, appropriate upgrades to street furniture, street signage, street LED decorative lighting, hardscaping, and landscaping. Improvements on the FIU Campus will be limited to match and harmonize the work on the South Plaza up to the north boundary of parking garage 4.



# ALFRED LURIGADOS, PE

## TRAFFIC ENGINEERING OPERATIONS QA/QC

**FIRM**  
BCC Engineering, LLC

**YEARS OF EXPERIENCE** 29

**EDUCATION**  
BS in Civil Engineering,  
Florida International  
University, 1996

**REGISTRATIONS/  
CERTIFICATIONS**  
Professional Engineer,  
Florida No. 58098, 2002

Mr. Lurigados has over 29 years of experience in Project Management and Administration of Transportation Projects with a bachelor’s degree in civil engineering. Mr. Lurigados has been involved in managing all disciplines of projects from planning, PD&E, design, design-build, construction and maintenance of transportation infrastructure for Greater Miami Expressway Agency (GMX)(FKA MDX) Florida Department of Transportation (FDOT), Miami-Dade County and Florida East Coast Industries.

### RELEVANT EXPERIENCE

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | PRINCIPAL-IN-CHARGE** | Bridge Task Work Order (TWO) assignments including inspections, evaluations, and repairs. Mr. Lurigados serves as Project Principal for the Curtiss Parkway and South Hook Square bridge repair projects, and the SW 57th Ave/Snapper Creek Bridge urgent repair.

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | PRINCIPAL-IN-CHARGE** | Continuing contract for bridge Task Work Order (TWO) assignments including inspections and repairs. Mr. Lurigados serves as Project Principal for the SW 288th St Over Canal C-103-N Bridge Repair and the NW 22nd Ave and NW 67th Ave Canal C-8 retrofits.

**MIAMI-DADE COUNTY PUBLIC SCHOOLS SPEED DETECTION SYSTEM | MIAMI-DADE COUNTY, FL | REDSPEED USA | PROJECT DURATION: 03/2024 - ONGOING | PRINCIPAL-IN-CHARGE** | RedSpeed USA is leading the program for the enforcement of school zone speeding violations within the State of Florida. BCC Engineering is supporting RedSpeed with the site design, permitting for site locations, and signage required within school zones.

**MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PROFESSIONAL SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2022 - 2027 | PROJECT MANAGER** | This contract is a task authorization-based contract for any planning, design services requested by DTPW.

**TAMPA HILLSBOROUGH EXPRESSWAY AUTHORITY (THEA) GEC CONTRACT | HILLSBOROUGH COUNTY, FL | THEA | PROJECT DURATION: 2021 - 2024 | PROJECT MANAGER** | This contract is a task authorization-based contract for any design services requested by THEA. Full design services for a Wrong Way Driving monitoring and prevention system along all exit ramps on the Selmon Expressway.

**PIGEON KEY ELECTRICAL SERVICE | MONROE COUNTY, FL | PIGEON KEY FOUNDATION | PROJECT DURATION: 2019 - 2021 | PRINCIPAL-IN-CHARGE** | This Pigeon Key Foundation project involves the design, plans for permitting, and construction oversight for Electrical Power Service to Pigeon Key, along the old Seven Mile Bridge in the Florida Keys. This unique project involves a 2-mile electrification conduit from Knights Key on the North-East end, along the famous old 7-Mile bridge, with connection into Pigeon Key for new power service.

**VILLAGE OF VIRGINIA GARDENS CONTINUING PROFESSIONAL SERVICES CONTRACT | MIAMI-DADE COUNTY, FL | VILLAGE OF VIRGINIA GARDENS | PROJECT DURATION: 2018 - 2023 | PRINCIPAL-IN-CHARGE** | Project encompasses the design of roadway improvements to NW 67th Avenue from NW 38th Street to NW 41st Street, including NW 38th Street work. Improvements include drainage, traffic study and a one-way conversion, lighting and shared use trail improvements. The construction plans will provide a one-way typical section with a shared use path. Other proposed improvements include NW 37th Street milling and resurfacing and ADA sidewalk improvements. Drainage and crosswalk improvements are also included as part of the FDOT approved LAP grant. Miami-Dade Traffic Permits were required as part of this project.

**GMX WORK PROGRAM NO. 83605, SR 836 EXTENSION FROM NW 137TH AVENUE TO NW 107TH AVENUE | MIAMI-DADE COUNTY, FL | GREATER MIAMI EXPRESSWAY AGENCY (GMX) | PROJECT DURATION: 2002 - 2012 | DIRECTOR OF ENGINEERING** | The project included the construction of a new 4 lane expressway extension on SR 836. Reconstruction of West 137th Avenue from SW 8th Street to NW 12th Street.



# WILLIAM GARCIA, PE

## CEI QA/QC

### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 30

### EDUCATION

BS in Civil Engineering,  
Florida International  
University, 1996

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer,  
Florida No. 56781, 2001

CTQP Training ID No.  
G62092072-000

FDOT CTQP Quality  
Control Manager

FDOT CBT MSE Wall &  
Auger Cast Piles (Self-  
Studies)

FDOT CBT Critical  
Structures

Construction Issues Course

FDOT CBT Closed  
Caption Television (CCTV)

FDOT CBT Dynamic  
Message Signs (DMS)

FDOT CBT Fiber Design  
CBT

FDOT CBT Microwave  
Vehicle Detection MVDS

FDOT CBT NEMA-  
Managed Field Ethernet  
Switch

FDOT CBT Tier 1 Illicit  
Discharge Detection &  
Elimination (TRESS No.  
BT-19-0047)

FDOT Advanced  
Temporary Traffic Control  
(MOT)

Mr. Garcia has 30 years of overall experience with the last 23 years specializing in Construction Engineering and Inspections (CEI). Mr. Garcia has worked as a Senior Project Engineer on various roadway and bridge construction projects with an aggregate dollar value of over \$600 million. Mr. Garcia is responsible for overseeing the construction operations, administration, management, quality assurance, and monthly and final estimates of the projects. His duties have included the supervision of CEI teams with several subconsultants. Mr. Garcia’s experience also includes all facets of roadway design and land development including plans production, engineering reports, cost estimates, coordination with all technical disciplines, local and state permit acquisition and processing. Mr. Garcia has served as Project Engineer for some of the more complex structural projects in Miami-Dade County, and served as Constructability Reviewer for several major District 6 Bridge Repair projects. This combined experience made him the optimal choice to serve as the BCC Constructability Reviewer for this important project.

## RELEVANT EXPERIENCE

**INDIAN CREEK STRUCTURAL REPAIRS BRIDGE | BAY HARBOR, FL | TOWN OF BAY HARBOR ISLANDS | PROJECT DURATION: 3/2024 - 11/2024 | CONSTRUCTABILITY REVIEWER** | The Scope of this project consists of performing periodical field inspections to confirm bridge elements that have undergone necessary repairs / improvements due to significant deterioration. Provide CEI services for 8 months to include monitoring the work restoring cracked or spalled concrete on the superstructure, such as bridge deck, top and underside, and other components at locations indicated in the Plans.

**BRIDGE REHABILITATION PLANS REVISED | BAY HARBOR, FL | TOWN OF BAY HARBOR ISLANDS | PROJECT DURATION: 3/2021 - 11/2024 | CONSTRUCTABILITY REVIEWER** | The Scope of this project consists of performing a field inspection to confirm bridge elements that have undergone significant deterioration, comparing findings to the latest Bridge Inspection Report and the Town’s action list, and confirming conditions pertaining to Maintenance of Traffic (MOT) needs. Preparation of final repair construction documents (bridge plans and MOT plans), quantities, cost estimates, and Specifications and CEI services for 18 months.

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | CONSTRUCTABILITY REVIEWER** | Bridge Task Work Order (TWO) assignments including inspections, evaluations, and repairs. Mr. Garcia is conducting Constructability Reviews for the Curtiss Parkway and South Hook Square bridge repair projects, and the SW 57th Ave/Snapper Creek Bridge urgent repair.

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | CONSTRUCTABILITY REVIEWER** | Continuing contract for bridge Task Work Order (TWO) assignments including inspections and repairs. Mr. Garcia is conducting Constructability Reviews for the SW 288th St Over Canal C-103-N Bridge Repair and the NW 22nd Ave and NW 67th Ave Canal C-8 retrofits.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2011 - 2022 | CONSTRUCTABILITY REVIEWER** | Continuing Services Contract involving 26 miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs.



## YULET FERNANDEZ, PE

### LAP PROJECT COORDINATOR

#### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 17

#### EDUCATION

BS in Civil Engineering,  
Florida International  
University, 2009

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 77028

Ms. Fernandez obtained her PE in 2014 and has been a roadway design engineer and project manager for over 17 years. She has experience working in roadway design, signing & pavement markings, signalization design, TTCP, permitting, plans review and plans preparation. She is an experienced highway engineer in a wide array of projects in South Florida. Yulet is responsible for support in the areas of management, highway, signalization, and signing & pavement markings design, and plans review for multiple projects, from complex limited access facilities improvements to RRR projects. She has management experience and is familiar with the project process for coordination, permitting, QAQC and plans preparation. Yulet has held positions as a Project Manager, and Design Engineer for projects with FDOT Districts 4 and 6, and various municipalities within Monroe, Miami-Dade, Broward, Palm Beach and Indian River Counties.

### RELEVANT EXPERIENCE

#### **FDOT DISTRICT 6 LAP PROJECT - PARK WEST PEDESTRIAN AND BICYCLE IMPROVEMENTS | MIAMI-DADE COUNTY, FL | TOWN OF MIAMI LAKES | PROJECT DURATION: 2023 - 2024 | LAP COORDINATOR**

This Federally funded FDOT LAP project is located along Montrose (NW 82nd Avenue) and Balgowan Roads from Miami Lakes Drive (NW 154th Street) to Ardoch Road, approximately 0.7 miles. The project consists of narrowing existing travel lanes, providing bike lanes, enhancing the existing crosswalks, updating the safety-related signing and pavement marking of the existing crosswalk connections, adding ADA connectivity and ramps, and speed tables. The work on Balgowan Road consists of narrowing the travels lanes and providing protected bicycle lanes on each side of the road. On Montrose Road, the work consists of adding a bike lane on the west side of the road, enhancing the existing crosswalks, updating the safety-related signing and pavement marking of the existing crosswalk connections.

#### **FDOT DISTRICT 4 LAP PROJECT - MIRAMAR COMPLETE STREETS PHASE III | MIAMI-DADE COUNTY, FL | CITY OF MIRAMAR | PROJECT DURATION: 2022 - 2023 | SUBCONSULTANT PROJECT MANAGER LEADING DRAINAGE AND PERMITTING EFFORT AND HANDLING LAP ASSISTANCE**

The project includes the construction of "complete street" improvements from County Line Road to Pembroke Road, and from SW 62nd Avenue to SR 7. The scope of this project includes the construction of new sidewalks, ADA ramps at street intersections, and pedestrian level lighting along the streets within the project area. Residential driveways will be reconstructed along the proposed sidewalk and the swales will be regraded to accommodate the proposed sidewalks. Lighting at pedestrian level will be installed along the sidewalks and ADA ramps at the intersections along with crosswalks at controlled intersections. The following streets are included within the scope: SW 40th Ct, SW 37th St, SW 33rd St, SW 26th St, SW 25th St, SW 24th St, SW 23rd St, SW 22nd Ct, SW 22nd St, SW 20th Ct, SW 20th St, SW 18th St SW 61st Ave, SW 60th Terr.

**FDOT DISTRICT 4, 440454-2-52-01 | FDOT D4 | PROJECT DURATION: 2020 - 2021 | PROJECT ENGINEER** Ms. Fernandez was responsible for various aspects of the design and production of plans per FDOT FDM, Standards and Manuals for a range of projects. The most relevant: **SR 7 From N. of SR-80/Southern Blvd. to SR-704/Okeechobee Blvd.; Palm Beach County** - M&R, sidewalks construction, lighting retrofits, upgrading pedestrian features.

**SR A1A FROM SOUTH OF JASMINE LANE TO NORTH OF SR 60/BEACHLAND BOULEVARD | INDIAN RIVER COUNTY, FL | FDOT D4 | PROJECT DURATION: 2020 - 2021 | SIGNALS ENGINEER** RRR project along SR A1A within the City of Vero Beach, in Indian River County for a length of 1.795 miles. Responsible for Design Variations and Signalization Design. Prepared signal plans for intersections of SR A1A and SR 656/ 17 St, SR A1A and SR 60/ Beachland Blvd, and SR 5/ US-1 and 8 Street/ CR 612. Also, prepared signalization plans for midblock crossings with solar rectangular rapid flashing beacons at Iris Lane and Dahlia Lane, along with coordination and approvals through Indian River County.



## CARLOS ALCANTARA, PE

### PROJECT ROADWAY LEAD

#### FIRM

BCC Engineering, LLC

YEARS OF EXPERIENCE 24

#### EDUCATION

BS in Civil Engineering,  
University of Florida, 2001

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 64760

Mr. Alcantara is a Senior Roadway Engineer with over 24 years of Transportation Engineering experience. Mr. Alcantara has been extensively involved in the final design of roadway projects for FDOT and other public agencies throughout the State of Florida. Mr. Alcantara has worked on projects ranging from major conventional and large scale Design-Build to Districtwide contracts, including District 6 Bridge Maintenance projects. Mr. Alcantara was selected to serve as the Julia Tuttle Bridge Repair Roadway Lead based on his experience as Temporary Traffic Control Plan Engineer-of-Record and Roadway Lead for District 6 Bridge Maintenance projects including major concrete bridges and the City of Miami.

### RELEVANT EXPERIENCE

**TOWN OF BAY HARBOR ISLANDS BRIDGE ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | TOWN OF BAY HARBOR ISLANDS PUBLIC WORKS DEPARTMENT | PROJECT DURATION: 2019 - ONGOING | MOT QUALITY CONTROL REVIEWER FOR BC-158 (BRIDGE NO. 875101) BROAD CAUSEWAY BRIDGE REPAIR** | Continuing contract involving bridge repairs and studies. Project Role: MOT Quality Control Reviewer for BC-158 (Bridge No. 875101 Broad Causeway Bridge Repair.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT D6 | PROJECT DURATION: 2019 - ONGOING | TEMPORARY TRAFFIC CONTROL ENGINEER** | Continuing Services Contract involving 21 miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs.

**SR 886/PORT BOULEVARD OVER INTRACOASTAL WATERWAY REPAIR/REHABILITATION BRIDGE NOS. 875000 & 875001 | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2019 - 2023 | TEMPORARY TRAFFIC CONTROL ENGINEER** | Repairs to the Port Boulevard Bridge located between the City of Miami and Port of Miami. The bridge serves as a vital link between Miami and the Port, considering that the Miami Tunnel is the only alternative route.

**SR 9 (I-95) EXPRESS LANES PHASE 3C DESIGN-BUILD (95 EXPRESS/I-595 DIRECT CONNECTORS, SR 9/I-95 FROM STIRLING ROAD TO BROWARD BOULEVARD, SR 9/I-95 AT SR 862/I-595 BRIDGE PAINTING | BROWARD COUNTY, FL | FDOT D4 | PROJECT DURATION: 2018 - 2026 (EST.) | PROJECT MANAGER** | This major project involved the design of 35 bridge structures.

**NW 87TH AVENUE NORTHBOUND AND SOUTHBOUND OVER I-75 PAINTING BRIDGE NOS. 870600 & 871001 | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2019 - 2023 | TEMPORARY TRAFFIC CONTROL QUALITY CONTROL REVIEWER** | This project involved painting two 318-foot long steel girder bridges carrying NW 87th Avenue over I-75. Extensive Traffic Control plans were required for I-75, including newly constructed Express Lanes.

**SR 856 RAMP NORTHBOUND SR A1A REPAIR/REHABILITATION BRIDGE NO. 870603 | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2019 - 2023 | TEMPORARY TRAFFIC CONTROL ENGINEER-OF-RECORD** | This project involved painting, concrete repairs, joint replacement, deck sealing, and Class 5 Coating to an 13-span, 1,361-foot long flyover bridge carrying Northbound SR A1A to the William Lehman Causeway in the City of Sunny Isles Beach. The bridge is comprised of 13 spans – 8 spans are AASHTO girder, and 5 spans are comprised of curved continuous steel plate girders. The bridge is located in a high-traffic area bordering Collins Avenue and Golden Glades Community Park. As a result, Maintenance of Traffic was a key project consideration.

**SR 90 OVER SPILLWAY 12-B REPAIR/REHABILITATION BRIDGE NO. 870028 | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2019 - 2023 | TEMPORARY TRAFFIC CONTROL QUALITY CONTROL REVIEWER** | Project involved repairs to a 170-foot long slab unit bridge supporting SR 90 in the Florida Everglades. The project also included installation of cathodic protection (galvanic cell drilled shaft jackets), and rehabilitation of the bridge such as spall repairs, epoxy crack injection, and epoxy overlay deck sealer. Additional considerations included the environmentally sensitive area (Everglades). The bridge also supported several critical utilities. The area is heavily traveled so minimizing disruption and a comprehensive Maintenance of Traffic plan were critical aspects of the design.



# JAMIE VU, PE

## PROJECT MOT ENGINEER

**FIRM**  
BCC Engineering, LLC

**YEARS OF EXPERIENCE** 9

**EDUCATION**  
BS in Civil Engineering,  
University of Central  
Florida, 2017

**REGISTRATIONS/  
CERTIFICATIONS**  
Professional Engineer  
Florida No. 93343

Mrs. Vu has 9 years of experience in transportation engineering. Mrs. Vu has been involved in both the conceptual and final design of roadway projects for both FDOT and Florida’s Turnpike Enterprise. Mrs. Vu has worked on conventional and Design-Build projects ranging from simple RRR projects to complex Limited Access and interchange reconstruction projects. Mrs. Vu also worked in-house at FDOT District 4. Her experience includes roadway geometric design, 3D modeling, and maintenance of traffic. Her design software experience includes MicroStation, OpenRoads, and 3D modeling. Ms. Vu was selected to serve as the Julia Tuttle Bridge Repair Temporary Traffic Control Plan Engineer of Record based upon her experience as Temporary Traffic Control Plan Engineer-of-Record for a multitude of relevant FDOT projects, including recent relevant District 6 Bridge Maintenance projects such as the 7 Mile Bridge Repair.

### RELEVANT EXPERIENCE

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT D6 | PROJECT DURATION: 2024 - ONGOING | TEMPORARY TRAFFIC CONTROL PLAN ENGINEER OF RECORD** | Continuing

Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections, assessments, and repairs for bridges and miscellaneous structures. Projects also include maintenance of traffic, public involvement (meetings, outreach), signing, pavement markings, phased construction, and Technical Special Provisions. Post design services include review of shop drawings, Requests for Information (RFI’s), and material certifications.

**SR 5 / US-1 / OVERSEAS HIGHWAY OVER MOSER CHANNEL REPAIR/REHABILITATION SEVEN MILE BRIDGE NO. 900101 | MONROE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2023 - ONGOING | TEMPORARY TRAFFIC CONTROL PLAN ENGINEER OF RECORD** | This project involves repairs to the “7-Mile Bridge” in the Florida Keys. This rehabilitation project is intended to be the last major rehabilitation project until the bridge can be replaced –

the construction budget is \$16.7 Million. BCC conducted extensive inspections, assessments, and material sampling in order to prioritize repairs (deviator blocks, external tendons, bearing areas requiring Temporary Support Structure) and ensure safety while meeting the \$16.7M construction budget constraint.

**I-95 AT SR 848/STIRLING ROAD INTERIM INTERCHANGE IMPROVEMENTS | BROWARD COUNTY, FL | FDOT D4 | PROJECT DURATION: 2017 - 2022 | TEMPORARY TRAFFIC CONTROL PLAN DESIGNER** | This Project consists of the interim operational improvements required for the southbound exit ramp and northbound entrance terminals at Stirling road to accommodate the expected traffic growth due to the construction of the Dania Point development at the NW quadrant of the I-95 and Stirling Road Interchange. The scope involves the preparation of a set of contract documents including plans, specifications, supporting engineering analysis, and calculations. Improvements include retaining walls, overhead signs, mast arm signals, single post signs, multi-post signs, S&PM, and signalization and ITS. Site constraints included limited Right-of-Way, utilities, high traffic volumes, and proximity to existing buildings, bridges, and retaining wall structures that are sensitive to vibrations. Temporary retaining walls were used to maintain traffic during construction. BCC is responsible for the Maintenance of Traffic and Structures design for the Team.

**DESIGN SERVICES FOR CR-510/85TH STREET FROM 82ND AVENUE TO 58TH AVENUE | INDIAN RIVER COUNTY, FL | FDOT D4 | PROJECT DURATION: 2018 - ONGOING | TEMPORARY TRAFFIC CONTROL PLAN DESIGNER** | CR-510 is a critical thoroughfare for District 4 as it facilitates the west-east movement of traffic in Indian River County by connecting I-95 to SRA1A. This project addresses the future capacity, operational and safety needs of the roadway by widening this road from 2-lanes to 4-lanes. The project includes the replacement of two at-grade canal crossings: Bridge No. 880063 carrying C.R. 510 Over the Sebastian River Improvement District (SRID) Lateral C Canal, and Bridge No. 880044 carrying C.R. 510 over the SRID Lateral L Canal. A third new bridge structure will be used to replace an existing pipe culvert over the South Prong Slough conservation area.



# DACHA QUINTANA, PE

## PROJECT SIGNALIZATION ENGINEER

**FIRM**  
BCC Engineering, LLC  
**YEARS OF EXPERIENCE** 22

**EDUCATION**  
MS in Civil Engineering,  
Florida International  
University, 2005  
BS in Civil Engineering,  
Florida International  
University, 2002

**REGISTRATIONS/  
CERTIFICATIONS**  
Professional Engineer  
Florida No. 67393

Ms. Quintana is a Senior Traffic Operations Engineer with 22 years of experience in Transportation Planning and Engineering projects. Ms. Quintana is the Division Manager of the Traffic Engineering and Operations Group responsible for the design of Signing and Pavement Markings and Signalization plans and overseeing the design of Lighting and ITS plans. She is a Florida, Georgia, Texas and Puerto Rico PE and a member of the Cuban American Association of Civil Engineers (CAACE). Ms. Quintana’s primary experience focuses on developing Signing and Pavement Markings Plans and Signalization Plans for municipalities in South Florida and The Florida Department of Transportation (FDOT). Ms. Quintana is knowledgeable in traffic/highway data collection and analysis, traffic operations studies, and traffic network simulation.

### RELEVANT EXPERIENCE

**PROFESSIONAL SERVICES FOR BRIDGE STRUCTURAL ENGINEERING PROJECTS (E20- DTPW-02)(HIGHWAY BRIDGE ENGINEERING) | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | QC ENGINEER FOR SIGNING AND PAVEMENT MARKING AND SIGNALIZATION |** Continuing Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, and bridge repairs.

**VILLAGE OF KEY BISCAYNE CONTINUING ARCHITECTURAL & ENGINEERING SERVICES | KEY BISCAYNE, FL | VILLAGE OF KEY BISCAYNE | PROJECT DURATION: 2022 - 2023 | ENGINEER OF RECORD FOR SIGNING AND PAVEMENT MARKING AND SIGNALIZATION PLANS |** As part of the Village of Key Biscayne’s Continuing Architectural and Engineering Services Contract, BCC served as the Engineer of Record for Signing and Pavement Marking and Signalization Plans for various roadway improvement initiatives. The firm played a key role in developing conceptual and construction-ready plans designed to enhance safety, improve traffic operations, and ensure compliance with FDOT and MUTCD standards. BCC led coordination efforts with multiple stakeholders, including the Village of Key Biscayne, Miami-Dade County, Miami-Dade Transit, and other relevant entities, to collect, verify, and assess existing data such as as-builts, traffic counts, utility locations, and transit operations. This collaborative approach ensured that the final design was responsive to site-specific constraints and community needs, while aligning with regional infrastructure goals.

**SW 127TH AVENUE FROM SW 144TH STREET TO SW 136TH STREET | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2018 - ONGOING | ENGINEER OF RECORD FOR SIGNALIZATION PLANS |** This project consists of widening from a 2-lane road to a 4-lane road including new raised medians with irrigation, bike lanes, sidewalks, curb & gutters, storm water drainage system, pavement markings and signage, intersection and signalization improvements, and roadway lighting. T

**SW 268 STREET WIDENING FROM US-1 TO SW 139 AVENUE | MIAMI-DADE COUNTY, FL | CLIENT | PROJECT DURATION: 3/2023 - 7/2024 | ROLE |** This project consist of the widening of SW 268th Street from a four-lane undivided section to a five-lane section from US-1 to SW 139th Avenue. BCC Engineering is responsible for the preparation of design plans, drainage reports, lighting, signing and pavement markings, signals and permitting.

**SR 25 (OKEECHOBEE ROAD) FROM BROWARD/MIAMI-DADE COUNTY LINE TO EAST OF NW 117 AVENUE | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2017 - 2020 | ENGINEER-OF-RECORD FOR THE DESIGN AND PREPARATION OF SIGNALIZATION PLANS |** Final design of the longest segment of the Okeechobee Road corridor. This project includes the widening of the Okeechobee Road and the construction of a new Frontage Road along the north side of Okeechobee Road. Also includes using a combination of asphalt pavement along the thru lanes and concrete pavement at signalized intersections with Krome Avenue and NW 154th Street.

**SR 9 (I-95) EXPRESS LANES PHASE 3C DESIGN-BUILD (95 EXPRESS/I-595 DIRECT CONNECTORS, SR 9/I-95 FROM STIRLING ROAD TO BROWARD BOULEVARD, SR 9/I-95 AT SR 862/ I-595 BRIDGE PAINTING | BROWARD COUNTY, FL | FDOT D4 | PROJECT DURATION: 2018 - 2026 (EST.) | SIGNING AND PAVEMENT MARKING ENGINEER-OF-RECORD |** “95 Express” is a Limited Access Express Lane facility adjacent to the I-95 General Use Lanes. The limits extend from south of Hollywood Boulevard to south of Broward Boulevard in Broward County for a total distance of approximately 9 miles along I-95. The Project also includes improvements along I-595 and direct connections between 95 Express Lanes.



## DAVID TINDER, PE

### CEI PROJECT LEAD

#### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 29

#### EDUCATION

MBA,  
Florida International  
University, 2004

BS in Civil Engineering,  
University of Florida, 1996

#### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 58195  
Texas No. 131747  
Puerto Rico No. 27809  
Georgia No. 46843

Mr. Tinder has over of 29 years of extensive experience in the Transportation Engineering Industry. He completed the 4-year PE Trainee Program at the FDOT, managed a \$1B work program with MDC DTPW, and managed complex Design-Build construction projects as a consultant CEI SPE. His significant experience has exposed him to every element of the FDOT process and county governmental procedures, as well as set the foundation for his ability to successfully manage major construction projects with unique aspects on the design and construction side. His projects have ranged from complex bascule bridge construction to highly sensitive urban reconstruction projects. For the last 15 years, he has focused on complex and high-profile Express Lanes D-B projects. David took on the first Express Lane (EL) project in Florida, I-95 EL Phase 1 Design-Build-Finance (\$121M), resulting in SASHTO's Regional Award in the 2009 America's Transportation Awards Competition, as well as the FTBA's Best in Construction Award in the D-B Category for 2010. Due to the successes of David's team on phase 1, NME/BCC was awarded the next two phases of the project, extending up to Commercial Boulevard in Broward County. David's extensive experience with complex D-B projects sets him apart from other SPEs in South Florida. His understanding of the design elements, coordination of all interested parties, and managing the project from inception to completion provides true value to any project.

### RELEVANT EXPERIENCE

**SR 9/I-95 EXPRESS LANES PHASE 3A-1 FROM SOUTH OF BROWARD BOULEVARD TO NORTH OF COMMERCIAL BOULEVARD (INCLUDING RAMP SIGNALING) | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2015 - 2020 | SENIOR PROJECT ENGINEER** | I-95 Express Phase 3A-1 consists of extending the existing express lanes North from just South of Broward Blvd to just North of Commercial Boulevard, ramp signals from Hallandale Beach Blvd to Commercial Blvd, operational improvements to the Broward Blvd / I-95 Interchange, operational improvements for the Broward Blvd Park n Ride lot and operational improvements to the Express Lanes at Stirling Rd.

**SR 9/I-95 EXPRESS LANES PHASE 2 | MIAMI-DADE & BROWARD COUNTIES, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2011 - 2017 | SENIOR PROJECT ENGINEER** | This Design-Build ARRA funded project is the second leg of the successful Managed Lanes concept on I-95. This project includes 12 miles of roadway widening, ITS installation for tolling and traffic monitoring systems, Power Distribution System, Turnpike Infrastructure installation (4 toll gantries and hub buildings), numerous cantilever and truss sign structures, traffic control devices for express lanes, drainage, asphalt resurfacing and overbuild, earthwork, bridge widening (concrete and steel structures) and major modifications and widening at the Ives Dairy Road and I-95 Interchange.

**SW 2ND AVENUE BRIDGE RECONSTRUCTION | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2001 - 2003 | FDOT SENIOR PROJECT ENGINEER** | Construction of a bascule bridge over the Miami River, which included a 300ft span from trunnion to trunnion with steel box main girders and full depth floor beams. The bridge was supported on bascule piers that were supported on pre-stressed concrete piles 30". Responsible for inspection of the contractor's erection and installation of steel main box girders, floor beams, lateral bracing, bascule drive system consisting of hydraulic cylinders. The SW 2nd Avenue Project has won multiple awards.

**MERIDIAN AVENUE BRIDGE RECONSTRUCTION | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2000 - 2001 | SENIOR PROJECT ENGINEER** | Supervised all administrative and operational functions for the reconstruction of the Meridian Avenue Bridge in Miami Beach, FL. The project included the replacement of a low-level bridge over the Dade Blvd. Canal with Drilled Shaft foundations. The project included many unique architectural features to blend with the nearby Holocaust Memorial and the Miami Beach Convention Center. The project was awarded FTBA's Minor Bridge of the Year award in 2001.



# MARCELLO D'ANDREA, PE

## CEI PROJECT ENGINEER

### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 26

### EDUCATION

BS in Civil Engineering,  
Florida Atlantic University,  
2007

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 78421

Mr. D'Andrea has 26 years of experience specializing in the area of Construction Engineering and Inspection (CEI) on numerous high profile projects for Florida's Turnpike Enterprise (FTE), Florida Department of Transportation (FDOT) and multiple Municipalities. Mr. D'Andrea has gained significant experience on a variety of projects in the roles Inspector, Senior Inspector, CSS and Project Administrator (PA). Working as a PA for the last 5 years, he has gained valuable experience in running the day-to-day operations for significant projects with FTE and has shown his ability to lead a team of Inspectors and CSS on large scale projects while working closely with and receiving guidance from his Resident Engineer. Additionally, Mr. D'Andrea has over five years of commercial diving experience performing underwater construction, maintenance, and inspection of piers, pipelines, pilings, and underwater cooling systems for energy plant generators. Mr. D'Andrea is responsible for overseeing the construction operations, administration, management, quality assurance, and monthly and final estimates of his projects.

## RELEVANT EXPERIENCE

**INDIAN CREEK STRUCTURAL REPAIRS BRIDGE (BC-159-0-2023-FVR) | MIAMI-DADE COUNTY, FL | TOWN OF BAY HARBOR ISLANDS | PROJECT DURATION: 3/2024 - 11/2024 | PROJECT ADMINISTRATOR** | BCC is serving as the Project Administrator for the Indian Creek Bridge Structural Repairs project (Bridge ID: BC-159-0-2023-FVR), providing oversight and Construction Engineering and Inspection (CEI) services for an 8-month period. The scope of work includes conducting routine field inspections to verify that structural elements identified in the construction documents are properly restored in accordance with the plans and specifications. This project addresses advanced structural deterioration of the bridge's superstructure, focusing on restoring the integrity and longevity of critical components, including the bridge deck, its top and underside surfaces, and other reinforced concrete elements. Repairs include crack injection, spall remediation, concrete patching, and protective surface treatments.

**NW 21ST AVENUE FROM NW 19TH STREET TO OAKLAND PARK BOULEVARD | BROWARD COUNTY, FL | BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION | PROJECT DURATION: 2009 - 2011 | ENGINEERING INSPECTOR** | Engineering Inspector providing CEI services for this project involving the reconstruction of the existing three-lane facility, including new bike lanes, sidewalks, 8-inch ductile iron (DIP) water main, 6-inch force main, drainage system, street lighting, upgrading of the signalization system, landscaping, irrigation system and pavement markings.

**PINE ISLAND ROAD (OAKLAND PARK BOULEVARD TO COMMERCIAL BOULEVARD) | BROWARD COUNTY, FL | BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION | PROJECT DURATION: 2008 - 2009 | ENGINEERING INSPECTOR** | As an Engineering Inspector, provided CEI services for the reconstruction and widening of 2.0 miles of a major north-south arterial in Broward County. Project scope included new drainage system, street lighting, signalization, and asphaltic concrete pavement.

**SHERIDAN STREET (NW 196TH AVENUE TO NW 172ND AVENUE) | BROWARD COUNTY, FL | BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION | PROJECT DURATION: 9/2024 - ONGOING | ROADWAY INSPECTOR** | Roadway Inspector providing CEI services for the reconstruction of 2.1 miles of Sheridan Street, from west of NW 196th Avenue to east of NW 172nd Avenue.

**SUNRISE BOULEVARD (HIATUS ROAD TO PINES ISLAND ROAD) | BROWARD COUNTY, FL | BROWARD COUNTY HIGHWAY CONSTRUCTION & ENGINEERING DIVISION | PROJECT DURATION: 2007 - 2008 | ROADWAY INSPECTOR** | Roadway Inspector providing CEI services for the widening, milling and resurfacing of 1.75 miles of Sunrise Boulevard, from Hiatus Road to Pines Island Road.

**CEI SERVICES FOR BUILDING #3 OF THE GATEWAY COMMERCE PARK | MIAMI GARDENS, FL | EASTGROUP PROPERTIES, L.P. | PROJECT DURATION: 2022 - 2023 | PROJECT ADMINISTRATOR** | BCC provided Construction Engineering and Inspection (CCEI) services for this FDOT Intyermodal Logistics Center Infrastructure Support Program project during the construction of this project. The scope will include the parking lot earthwork and asphalt paving, and the concrete apron and ramps associated with Building #3 within the project.



# ERIK SPILLMANN, PE ITS/LIGHTING ENGINEER

## FIRM

BCC Engineering, LLC

## YEARS OF EXPERIENCE 27

## EDUCATION

BS in Civil Engineering,  
University of Central  
Florida, 1996

## REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 58771  
Puerto Rico No. 28253  
Texas No. 139050  
Georgia No. 046197  
NHI Portland Cement  
Concrete Paving  
Inspection

Mr. Spillmann has 27 years of civil and transportation engineering experience. Mr. Spillmann lends his particular expertise to Intelligent Transportation Systems (ITS) design, ITS CEI, communication systems design and integration, fiber optic design, software development, testing and debugging, training of personnel, lighting design, Signalization design and timing. Having served in nearly all capacities from field technician to project manager, Erik understands each step and phase of the process.

## RELEVANT EXPERIENCE

**SR 9 (I-95) EXPRESS LANES PHASE 3C DESIGN-BUILD (95 EXPRESS / I-595 DIRECT CONNECTORS, SR 9 / I-95 FROM STIRLING ROAD TO BROWARD BOULEVARD, SR 9 / I-95 AT SR 862 / I-595 BRIDGE PAINTING | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2018 - 2026 (EST.) | ITS EOR |** "95 Express" is a Limited Access Express Lane facility that runs adjacent to the I-95 General Use Lanes. The construction limits extend from south of Hollywood Boulevard at I-95 milepost 1.773 to south of Broward Boulevard at I-95 milepost 10.757 in Broward County for a total distance of approximately 9 miles along I-95. The Project also includes improvements along I-595 from west of SR-7 at milepost 8.515 to I-95 at milepost 10.545 for a total distance of approximately 2 miles, direct connections between northbound and southbound 95 Express Lanes and I-595 to and from the west.

**ITS DEVICE REPLACEMENT PROJECT | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6/PEVIDA HIGHWAY DESIGNERS, LLC | PROJECT DURATION: 2017 - 2022 | ITS QA/QC |** The project consists of replacement of various ITS devices in Miami and Monroe Counties. The ITS device replacement portion of the project includes Replacements of freeway incident management DMS and retrofit or replace

the corresponding sign structure, replacement of 165 CCTV cameras and associated camera lowering devices. Also includes the replacement of 13 existing abacus type and VIDS type CCTV camera poles, installation of 24 concrete CCTV camera poles, installation of Video Wall System and components at the District 6 TMC, installation of conduit and cabling infrastructure for both communication and power connectivity ITS devices. BCC Engineering provided ITS design services for the contract.

**ACCELERATED START PROJECT SEGMENT A I-4 (SR 400) FROM EAST OF US 27 TO WEST OF SR 429 | CELEBRATION, FL | FLORIDA DEPARTMENT OF TRANSPORTATION CORRIDORS PROGRAM OFFICE | PROJECT DURATION: 2024 - ONGOING | ITS AND LIGHTING EOR |** This landmark project for the Florida Department of Transportation (FDOT) is the agency's first use of the Modified Phased Design-Build (MPDB) approach. The project involves the construction of two new congestion relief lanes, expected to open by late 2025, and the expansion of the corridor to 12 lanes in key segments to accommodate future express lanes. Provisions for future rail expansion will ensure the corridor is ready for long-term transportation solutions. With BCC as the prime design consultant, the MPDB method encourages early coordination between design and construction teams, accelerating delivery while minimizing disruptions.

**CORAL SPRINGS FIBER NETWORK, LOI 23-B-055 | CORAL SPRINGS, FL | CITY OF CORAL SPRINGS | PROJECT DURATION: 2023 | PROJECT MANAGER & EOR |** This project consisted of Professional Engineering Design and CEI Services for Fiber Optic Network Infrastructure for the City of Coral Springs. The improvements under this Contract consist of installing a 24 miles of underground fiber optic network infrastructure, in the City of Coral Springs, Broward County.

**BAY COUNTY MAST ARM HARDENING, ITB 23-10 TRAFFIC SIGNAL MAST ARM HARDENING CONTRACT HMGP PROJECT 4399-119-R | BAY COUNTY, FL | INGRAM SIGNALIZATION, INC. | PROJECT DURATION: 2023 | DESIGN PROJECT MANAGER & SIGNAL EOR |** Mast Arm Signal Design and construction at 14 intersections in Bay County, Florida. The owner of these projects is Bay County Public Works.

**VERRA MOBILITY RED LIGHT CAMERAS DESIGN AND PERMITTING | MIAMI, FL | VERRA MOBILITY | PROJECT DURATION: 2022 - 2023 | SIGNALIZATION EOR |** Professional Engineering services for 8 Red Light Cameras.



# KERI-ANN COORE-VICKERS, PE

## SIGNING & PAVEMENT MARKING ENGINEER

### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 19

### EDUCATION

MS in Civil Engineering,  
University of Central  
Florida, 2013

BS in Civil Engineering,  
University of Miami, 2006

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 87383

Texas No. 143277

Ms. Coore-Vickers has 19 years of experience in Highway Engineering including 5 years of experience in Intelligent Transportation Systems (ITS) Design. She has experience assisting project managers with the analysis, design and implementation of ITS encompassing traffic control systems, freeway operation systems, Dynamic Messaging Signs (DMS), Closed Circuit Television (CCTV) and MVDS systems. She also has experience in the design of Signalization Plans with Signal Operating Plan development, timing calculations and equipment location. During this time, she works closely with project managers and structures staff – most recently as part of the 7-Mile Bridge Repair project as well as District 6 Bridge Repair/Rehab Plans Preparation Contract CAR85.

### RELEVANT EXPERIENCE

**PROFESSIONAL SERVICES FOR BRIDGE STRUCTURAL ENGINEERING PROJECT | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | SIGNING AND PAVEMENT MARKING PROJECT ENGINEER** | Continuing Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, bridge repairs, structural steel painting, cathodic protection systems, and bridge replacements. Projects also included maintenance of traffic, public involvement (meetings, outreach), signing, pavement markings, phased construction, environmental permitting, Specifications, and Technical Special Provisions. Post design services included review of shop drawings, Requests for Information (RFI's), and material certification.

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2024 - ONGOING | S&PM ENGINEER OF RECORD** | Continuing Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections, assessments, and repairs for bridges and miscellaneous structures. Projects also include maintenance of traffic, public involvement (meetings, outreach), signing, pavement markings, phased construction, and Technical Special Provisions. Post design services include review of shop drawings, Requests for Information (RFI's), and material certifications.

**SR 25 / OKEECHOBEE ROAD FROM EAST OF NW 116 WAY TO EAST OF NW 87 AVENUE | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2016 - 2024 | PROJECT ENGINEER RESPONSIBLE FOR ASSISTING THE PROJECT MANAGER WITH THE DEVELOPMENT OF SIGNING & PAVEMENT MARKING PLANS** | Final design of the largest segment of the Okeechobee Road corridor. This project includes the reconstruction of Okeechobee Road and design with third level bridges over NW 87th Avenue and second level flyover bridges to and from Okeechobee Road and NW 87th Avenue. The design will also include the realignment of NW 103rd Street as well as widening of NW 87th Avenue, NW South River Drive, and NW 106th Way.

**SR 25 / OKEECHOBEE ROAD FROM BROWARD / MIAMI-DADE COUNTY LINE TO EAST OF NW 117 AVENUE | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2017 - 2020 | PROJECT ENGINEER RESPONSIBLE FOR ASSISTING THE PROJECT MANAGER WITH THE DEVELOPMENT OF SIGNING & PAVEMENT MARKING PLANS** | Final design of the longest segment of the Okeechobee Road corridor. This project includes the widening of the Okeechobee Road and the construction of a new Frontage Road along the north side of Okeechobee Road. Also includes using a combination of asphalt pavement along the thru lanes and concrete pavement at signalized intersections with Krome Avenue and NW 154th Street.

**SR 5 / US-1 / OVERSEAS HIGHWAY OVER MOSER CHANNEL REPAIR / REHABILITATION SEVEN MILE BRIDGE NO. 900101 | MONROE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2023 - ONGOING | PAVEMENT MARKING EOR** | This project involves repairs to the "7-Mile Bridge" in the Florida Keys. This rehabilitation project is intended to be the last major rehabilitation project until the bridge can be replaced – the construction budget is \$16.7 Million. BCC conducted extensive inspections, assessments, and material sampling in order to prioritize repairs (deviator blocks, external tendons, bearing areas requiring Temporary Support Structure) and ensure safety while meeting the \$16.7M construction budget constraint.



# SUNGRYONG HAN

## TRAFFIC ENGINEER

### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE** 31

### EDUCATION

MS in Civil Engineering,  
University of Florida, 1998

MS in Construction  
Management, Southern  
Polytechnic University,  
Korea, 1997

BS in Civil Engineering,  
Keimyung University,  
Korea, 1994

Mr. Han is a Senior Planner and Lead Technical professional for Travel Demand Modeling and is responsible for long range transportation planning, subarea/corridor planning, land use planning, project development and environmental (PD&E) studies, geographic information system (GIS) projects, and traffic engineering studies. He has completed work on converting the state's transportation models to Citilabs' Cube Voyager software. In addition to the Cube Voyager software he has experience with various other traffic engineering and GIS software, including Highway Capacity Software (HCS), Synchro, VISSIM, Florida Standard Urban Transportation Model Structure (FSUTMS), ArcGIS, and TransCAD. His work has gained him credibility and an outstanding relationship with the client.

### RELEVANT EXPERIENCE

**SR 9 (I-95) EXPRESS LANES PHASE 3C I-595 SEGMENT FROM SR 7 INTERCHANGE TO I-95 INTERCHANGE, SYSTEM INTERCHANGE MODIFICATION REPORT (SIMR) REEVALUATION DESIGN-BUILD | BROWARD COUNTY, FL | FDOT DISTRICT 4 / THE DE MOYA GROUP, INC. | PROJECT DURATION: 2017 - 2019 | SENIOR PLANNER FOR SIMR REEVALUATION REPORT |** The Florida Department of Transportation (FDOT) issued a Request for Proposal (RFP) for Design-Build Services to implement improvements along a 2-mile segment of I-595 from the SR 7 Interchange

to the I-95 interchange. The I-95 Express Phase 3C Design-Build (D-B) project proposed to replace the RFP design concept with a new D-B concept. The D-B concept improved weaving distances, reduced the number of lane changes required between ramp and mainline facilities and was projected to improve the safety performance and overall operating conditions along the I-595 segment as well as the adjacent local arterial network in a cost-effective manner. A SIMR Reevaluation was undertaken to demonstrate that the D-B concept meets the FHWA Policy points for preserving safety and operations and will function equal to or better than the RFP concept.

**GREATER MIAMI EXPRESSWAY AGENCY (GMX)(FKA MDX) WORK PROGRAM NO. 83628.030 – SR 836 WIDENING FROM EAST OF NW 57TH AVENUE TO EAST OF NW 17TH AVENUE | MIAMI-DADE COUNTY, FL | GREATER MIAMI EXPRESSWAY AGENCY (GMX)(FKA MDX) | PROJECT DURATION: 2014 - 2015 | TASK MANAGER AND SENIOR PLANNER |** Traffic study consisting of evaluating different alternatives to increase capacity along SR 836/Dolphin Expressway by adding a through lane in each direction (for a total of four lanes per direction) from west of NW 45th Avenue to east of NW 27th Avenue in the eastbound direction, and from east of NW 57th Avenue to east of NW 27th Avenue in the westbound direction.

**SR 112 CORRIDOR PLANNING STUDY FROM 12TH AVENUE TO SR 907 / ALTON ROAD | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2017 - 2020 | PROJECT MANAGER AND SENIOR PLANNER |** I-195 is a vital limited access facility in Miami-Dade County carrying approximately 130,000 vehicles daily. It provides a direct connection to Miami International Airport (via State Road 112 [SR 112]) from Interstate 95 (I-95) and the densely populated areas of Miami Beach. The corridor provides interchange access to several neighborhoods recently experiencing significant growth including the Design District, Midtown, and Wynwood in the City of Miami.

**SR 836/I-395 FROM WEST OF I-95 TO MACARTHUR CAUSEWAY BRIDGE | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2011 - ONGOING | SENIOR MODELER |** BCC is providing support services on behalf of FDOT for the concept development, procurement, and design phases of this project. BCC prepared the preliminary geometric design for the reconstruction of the entire I-395 corridor, from the original terminus at the west side of the I-95/Midtown Interchange (I-95/SR 836/I-395) to the original corridor terminus at the West Channel Bridges of US 41/MacArthur Causeway. This project was developed to improve mainline operations along I-395, reduce congestion on the surface streets below and provide enhanced access to the Performing Arts Center and surrounding areas of downtown Miami. BCC is also reviewing on behalf of the Department the roadway, traffic control, signing and pavement marking, and signalization plan components as submitted by the Designers.

**TAMPA BAY REGIONAL TRANSPORTATION ANALYSIS (RTA) XV | TAMPA, FL | FDOT DISTRICT 7 | PROJECT DURATION: 2020 - 2025 | PROJECT MANAGER |** BCC Engineering provided a set of transportation systems planning data, models and tools, and modeling assistance which met both the regional and local level planning needs in the Tampa Bay area.



## LORIN BRISSETT, PE PLANNING ENGINEER

### FIRM

BCC Engineering, LLC

YEARS OF EXPERIENCE 29

### EDUCATION

MS in Civil Engineering,  
Georgia Institute of  
Technology, 1995

BS in Civil Engineering,  
The City College of New  
York, 1994

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer

Florida No. 56846

Georgia No. 034481

Mr. Brissett has 29 years of Transportation Engineering experience. Mr. Brissett is an experienced project manager with special emphasis in traffic engineering, transportation facilities planning, traffic analyses and studies as well as process mapping and development of transportation engineering/planning systems. His technical strengths include traffic safety and operations, transportation planning and impact studies and modeling of transportation networks. He has analyzed and managed various projects for public and private sector clients. Mr. Brissett has experience in making presentations to various stakeholders in matters related to transportation engineering and planning. He has successfully managed projects of varying complexity and scale while providing insightful technical guidance to various clients and project teams to achieve positive as well as durable outcomes.

### RELEVANT EXPERIENCE

**CITY OF FORT LAUDERDALE TRAFFIC AND TRANSPORTATION ENGINEERING CONSULTANT SERVICES CONTINUING CONTRACT | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2017 - 2019 | TRANSPORTATION ENGINEER |** BCC Engineering is providing professional services related to a continuing contract for traffic and transportation engineering consultant services including, but not limited to: overseeing, planning, directing, coordinating, and implementing the planning, design, development, funding, construction and administration of complex City transportation related programs and projects

involving work with City engineers and technical staff; and establishing funding plans for City transportation related projects and programs including identification of, research, and completion of the appropriate forms and applications. Below is a task order issued to date under this contract.

- **DRC TRAFFIC AND PARKING STUDY REVIEWS CITYWIDE | FORT LAUDERDALE, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2016 - ONGOING | TRANSPORTATION ENGINEER |** Conducted traffic impact analysis and parking study reviews

**SR 9 (I-95) EXPRESS LANES PHASE 3C I-595 SEGMENT FROM SR 7 INTERCHANGE TO I-95 INTERCHANGE, SYSTEM INTERCHANGE MODIFICATION REPORT (SIMR) REEVALUATION DESIGN-BUILD | BROWARD COUNTY, FL | FDOT DISTRICT 4 / THE DE MOYA GROUP, INC. | PROJECT DURATION: 2017 - 2019 | ENGINEER OF RECORD FOR SIMR REEVALUATION REPORT |** The Florida Department of Transportation (FDOT) issued a Request for Proposal (RFP) for Design-Build Services to implement improvements along a 2-mile segment of I-595 from the SR 7 Interchange to the I-95 interchange. The I-95 Express Phase 3C Design-Build (D-B) project proposed to replace the RFP design concept with a new D-B concept. The D-B concept improved weaving distances, reduced the number of lane changes required between ramp and mainline facilities and was projected to improve the safety performance and overall operating conditions along the I-595 segment as well as the adjacent local arterial network in a cost-effective manner. A SIMR Reevaluation was undertaken to demonstrate that the D-B concept meets the FHWA Policy points for preserving safety and operations and will function equal to or better than the RFP concept. Project Role: Engineer of Record for SIMR Reevaluation Report.

**DISTRICTWIDE GENERAL CONSULTANT ENGINEERING SERVICES CONTRACT | DISTRICTWIDE, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2017 - 2020 | QA ADVISOR |** General Engineering Consultant services. One of the more relevant assignments includes Owners Representative for the reconstruction of the **Golden Glades Interchange (GGI)**. BCC performed an analysis to determine the projected traffic operations level of service (LOS) during the AM and PM peak hours resulting from the phase 4B maintenance of traffic (MOT) proposed alternatives during construction in Golden Glades Interchange area. TSIS-CORSIM version 6.3 software was used to evaluate the traffic operations for the proposed alternatives during MOT.

**VILLAGE OF KEY BISCAYNE TRAFFIC CIRCULATION STUDY FOR CRANDON BOULEVARD/FERNWOOD ROAD | VILLAGE OF KEY BISCAYNE, FL | VILLAGE OF KEY BISCAYNE DEPARTMENT OF TRANSPORTATION & PUBLIC WORKS | PROJECT DURATION: 2022 - 2023 | PROJECT MANAGER |** The Traffic Circulation Study for Crandon Boulevard/Fernwood Road evaluated existing traffic operational, bike-pedestrian and golf cart access in the Village.



# RICARDO DURAN, CGC

## UTILITY COORDINATION

### FIRM

BCC Engineering, LLC

YEARS OF EXPERIENCE 23

### EDUCATION

BA in English Literature,  
Florida International  
University, 2001

### REGISTRATIONS/ CERTIFICATIONS

FL Certified General  
Contractor CGC  
No. 1522689

Mr. Duran is a Certified General Contractor with over 23 years of experience providing utility coordination for various agencies including the Florida Department of Transportation (FDOT) and Turnpike, Miami-Dade County, Greater Miami Expressway Agency (GMX), City of Miami Beach, City of Fort Lauderdale, Broward County and Orange County. Mr. Duran has been part of FDOT's District 6 Maintenance Office as a Permit Specialist. His expertise includes the review of permits, project coordination and scheduling. Mr. Duran is very familiar with the State's utility design and construction criteria and permitting guidelines. Mr. Duran is part of BCC's Highway Division in Miami.

### RELEVANT EXPERIENCE

**PROFESSIONAL SERVICES FOR BRIDGE REPAIR AND STRUCTURAL ENGINEERING PROJECTS | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 2021 - ONGOING | UTILITY COORDINATOR FOR 3 BRIDGE REPAIRS AND ONE BRIDGE REPLACEMENT** | Continuing Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, bridge repairs, and bridge replacements.

**DISTRICTWIDE UTILITY COORDINATION SERVICES | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2012 - 2022 | SENIOR UTILITIES COORDINATOR** | Mr. Duran provided utility coordination services as a senior utility coordinator for this districtwide contract and completed numerous major roadway projects under the contract while in accordance with FDOT's standards, policies and procedures. Mr. Duran was also familiar with FDOT's utility agreements. Tasks have included all phases of utility negotiations and relocation (electric, telecommunications/cable, water/sewer, gas/fuel).

**GOLDEN GLADES INTERCHANGE IMPROVEMENTS FROM SR-826 TO I-95 / TURNPIKE | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2016 - ONGOING | SENIOR UTILITIES COORDINATOR** | These seven project segments encompassed express lanes improvements with frontage road reconstruction efforts for facilities owned by AT&T Florida (BellSouth), FP&L Distribution and Transmission, Miami-Dade Water & Sewer Department, and Florida Gas Transmission pipeline relocation to be accomplished under the Global Settlement Agreement. Provided Utility Coordination for the District and worked with the aforementioned UAOs.

**SR 25 / OKEECHOBEE ROAD FROM EAST OF NW 116 WAY TO EAST OF NW 87 AVENUE | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2016 - 2026 (EST.) | SENIOR UTILITIES COORDINATOR** | Final design of the largest segment of the Okeechobee Road corridor. This project includes the reconstruction of Okeechobee Road and design with third level bridges over NW 87th Avenue and second level flyover bridges to and from Okeechobee Road and NW 87th Avenue. The design will also include the realignment of NW 103rd Street as well as widening of NW 87th Avenue, NW South River Drive, and NW 106th Way.

**CITY OF MIAMI - DESIGN CRITERIA PACKAGE FOR REPAIR AND RECONSTRUCTION OF CITYWIDE ROADS | MIAMI, FL | CITY OF MIAMI | PROJECT DURATION: 2019 - ONGOING | SENIOR UTILITIES COORDINATOR** | This City of Miami project may include, but is not limited to, developing a Design Criteria Package that addresses drainage improvements, stormwater modeling, reconstruction, milling and resurfacing, sidewalks, Americans with Disabilities Act (ADA) compliant ramps, curbs and/or gutters, pavement markings and striping, roadway signage, utility coordination, and limited landscaping services. The Scope of Services also include surveying, geotechnical investigations and testing, and related services necessary for the preparation of the Design Criteria Package for a variety of different streets and intersections located throughout the City of Miami that are currently in very poor conditions and require reconstruction and/or repairs.

**SR 9 (I-95) EXPRESS LANES PHASE 3C DESIGN-BUILD (95 EXPRESS / I-595 DIRECT CONNECTORS, SR 9 / I-95 FROM STIRLING ROAD TO BROWARD BOULEVARD, SR 9 / I-95 AT SR 862 / I-595 BRIDGE PAINTING | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2018 - 2026 (EST.) | SENIOR UTILITIES COORDINATOR** | The Project scope includes improvements along I-595 from west of SR-7, direct connections between northbound and southbound 95 Express Lanes and I-595 to and from the west, and 35 bridge structures.



# ANA GONZALEZ, CBI

## BRIDGE INSPECTOR

### FIRM

BCC Engineering, LLC

**YEARS OF EXPERIENCE 25**

### EDUCATION

Associate of Arts, Miami Dade College, 1995

### REGISTRATIONS/ CERTIFICATIONS

State of Florida Certified Bridge Inspector No. 00398, 2003

PADI Master Scuba Diver Trainer No. 99376

Occupational Scuba Diver No. 12038

United States Coast Guard Merchant Mariners Credential as Master 100-ton Captain License

CTQP Training ID No.: G52401367-000

FDOT Certified Bridge Inspector No. 00398

FDOT Tier 1 Illicit Discharge Detection & Elimination (Tress No. BT-19-0047)

NHI Safety Inspection of In-Service Bridges (FHWA-NHI 130055)

NHI Bridge Inspection Refresher Training (FHWA-NHI 130053)

NHI- Portland Cement Conc. Paving Inspection (FHWA-NHI 131122)

Nuclear Gauge Safety Certified

Ms. Gonzalez has over 25 years of experience as a commercial diver and is responsible for supervising, performing, and supporting underwater bridge inspection projects throughout South Florida. For over 19 years, Ms. Gonzalez has been performing underwater bridge inspections. Ms. Gonzalez is also a Florida Master Scuba Diving Instructor.

## RELEVANT EXPERIENCE

**DISTRICTWIDE STRUCTURES REPAIR/REHAB PLANS PREPARATIONS (FPID NO. 250647-2-32-06; CONTRACT CA544) | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2019 - ONGOING | CERTIFIED BRIDGE INSPECTOR |** Continuing Services Contract involving 20 miscellaneous Task Work Order (TWO) assignments to date including inspections and evaluations, scoping reports, bridge repairs (bridge deck cracking, spall repairs, slope stabilization, structural steel painting, cathodic protection systems, safety and geometry improvements, bridge approach improvements, wingwall repairs and reconstruction, and scour countermeasures.

- **SR 886/PORT BOULEVARD OVER INTRACOASTAL WATERWAY REPAIR/REHABILITATION BRIDGE NOS. 875000 & 875001 (FPID: 441960-1-32-01) | MIAMI-DADE COUNTY, FL | CERTIFIED BRIDGE INSPECTOR |** The Port Boulevard Bridge is located between the City of Miami and Port of Miami. The bridge serves as a vital link between Miami and the Port, considering that the Miami Tunnel is the only alternative route.
- **SR 5/OVERSEAS HWY OVER LONG KEY CHANNEL REPAIR/REHABILITATION BRIDGE NO. 900094 (FPID NO. 441968-1-52-01) | MONROE COUNTY, FL | CERTIFIED BRIDGE INSPECTOR |** The Long Key Bridge is located along SR 5/Overseas Highway in the Middle Keys at MM 63.2. The bridge serves as a vital link between Long Key and Conch Key.

**BRIDGE ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | TOWN OF BAY HARBOR ISLANDS PUBLIC WORKS DEPARTMENT | PROJECT DURATION: 2018 - ONGOING | CERTIFIED BRIDGE INSPECTOR |** Continuing support on a Task Work Order (TWO) basis involving inspections and evaluations, bridge repairs, and studies. Projects also included maintenance of traffic, public involvement (meetings, outreach), signing, pavement markings, phased construction, environmental permitting, Specifications, and Technical Special Provisions. Post design services included review of shop drawings, bid support, Requests for Information (RFI's), material certification, and on-call support to the contractor during construction. Project Role: Senior Bridge Inspector Responsible for inspecting bridge elements from the waterline to the underdeck and topside.

**HURRICANE IRMA EMERGENCY BRIDGE INSPECTIONS | MONROE COUNTY, FL | VOLKERT | PROJECT DURATION: 2017 | CERTIFIED BRIDGE INSPECTOR |** Responsible for inspecting bridges spanning from Key Largo to Key West after Hurricane Irma, to report on the integrity of roadways and bridges, in order to determine if roads could be open to the public.

**INDIAN CREEK BRIDGE REHABILITATION | INDIAN CREEK VILLAGE, FL | INDIAN CREEK VILLAGE | PROJECT DURATION: 2013 - 2017 | SENIOR BRIDGE INSPECTOR |** Responsible for the topside and underwater inspection of the existing bridge over Indian Creek, which is a pristine navigable waterway, as well as the inspection of the seawall. This Project included the design, plans preparation, specifications, and environmental permitting, for the proposed rehabilitation of the existing structure built in 1930. The Project goal was to use innovative preservation strategies and actions to extend the historical bridge's useful service life and provide the Village with ample time and opportunity to prepare for its eventual replacement. Required heavy coordination with the Village of Indian Creek, the Dept. of Environmental Resources Management, fire & police, & Utility Agency Owners (UAOs).



# ALEJANDRO GARI, PE

## PROJECT ELECTRICAL ENGINEER

### FIRM

Parsons Transportation Group, Inc.

**YEARS OF EXPERIENCE** 14

### EDUCATION

BS in Electrical Engineering, Georgia Institute of Technology (Georgia Tech), 2009

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer Florida No. 79281

Mr. Gari has electrical infrastructure design experience that includes roadway lighting, traffic signalization, intelligent transportation systems, power and controls for spillway gates, pump stations, airside electrical power distribution for runway lighting, electrical inspection, generator design, electric vehicle charging stations, and power distribution for wastewater treatment facilities. He also has experience in designing fiber communications for intelligent transportation systems and performing load, voltage drop, arc flash, and short-circuit calculations.

## RELEVANT EXPERIENCE

**SOUTH DADE TRANSITWAY CORRIDOR (SOUTH CORRIDOR) BUS RAPID TRANSIT | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS | PROJECT DURATION: 10/2022 - 1/2025 | ELECTRICAL PROJECT ENGINEER** | Parsons served as lead designer for the South Corridor of the Strategic Miami Area Rapid Transit Plan, a 20-mile Bus Rapid Transit (BRT) project along the South Dade Transitway from Dadeland South Metrorail to SW 344th Street. The design-build project includes 14 new BRT stations, rehabilitation of 16 existing stations, demolition of old shelters, and a new 636-space park-and-ride garage at SW 168th Street. It earned the Envision Gold Award for sustainable infrastructure and included a 50-year sea level rise analysis. Alex led the electrical design for ITS, signals, gates, and lighting, ensuring code compliance and managing RFIs, comments, and markups.

**MOTOR CARRIER SIZE AND WEIGHT INTELLIGENT TRANSPORTATION SYSTEM | STATEWIDE, FL | FDOT | PROJECT DURATION: 1/2023 - 1/2024 | ELECTRICAL ENGINEER** | Parsons supported FDOT's Statewide Motor Carrier Size and Weight Program, providing ITS design and tech support for over 30 weigh stations to enhance capacity and efficiency. As a key subcontractor, Parsons led the design of prescreening technologies, including sensors, cameras, DMS, and fiber-optic communications. Alex handled all electrical calculations and field inspections for systems involving three-phase/single-phase power and backup generators.

**TRAILS AND TAILS PARK SMART LIGHTING AND IT IMPROVEMENTS | DORAL, FL | CITY OF DORAL | PROJECT DURATION: 9/2020 - 6/2022 | ELECTRICAL AND LIGHTING ENGINEER OF RECORD** | The project included designing a parking lot lighting system with photocell and timer-based controls for late-night security, and area lighting for a dog park, playground, and trail. An adaptive smart lighting system with motion sensors and remote monitoring was proposed for the trail. An IT server room was also designed to support six cameras and a license plate reader for enhanced security. Due to overhead lines, all lighting used 14-foot poles. Alex prepared a lighting report with photometric and cost comparisons, recommended the smart control system, coordinated with the City and manufacturers to select standard fixtures, and oversaw lighting, control system, and IT room design plans.

**INTELLIGENT TRANSPORTATION SYSTEM AND ELECTRICAL ENGINEER | SOUTH AND CENTRAL, FL | FLORIDA TURNPIKE ENTERPRISE | PROJECT DURATION: 8/2020 - 2/2022 | INTELLIGENT TRANSPORTATION SYSTEM AND ELECTRICAL ENGINEER** | The project involved developing the low-bid RFP and 30% design plans for a design-build contract to upgrade wrong-way vehicle detection at 49 high-priority Florida Turnpike ramps. The system used radar, thermal sensors, and solar power to reduce risk and infrastructure needs. Alex led the 30% designs, using wireless, solar-powered systems in South Florida and fiber-connected, utility-powered systems in Central Florida.

**OCEAN OUTFALL LEGISLATION FOR CENTRAL DISTRICT WASTEWATER TREATMENT PLANT CONCEPTUAL DESIGN REPORT | KEY BISCAYNE, FL | MIAMI-DADE COUNTY | PROJECT DURATION: 1/2017 - 12/2017 | ELECTRICAL ENGINEER** | The purpose of the conceptual design report was to define the required treatment plant improvements necessary to meet 2035 flows of 113 mgd annual average daily flow and 368 mgd peak hour flow to address Ocean Outfall Legislation requirements by 2025. Alex performed an electrical analysis of current loads, future loads currently under construction, and future Ocean Outfall Legislation requirements process loads for the new improvement processes, which required an extensive analysis of the existing electrical distribution system. Each substation was designed with two transformers using a main-tie-tie-main redundant system.



# JORGE ESTEVEZ, AIA

## PROJECT ARCHITECT

### FIRM

Parsons Transportation Group, Inc.

**YEARS OF EXPERIENCE** 38

### EDUCATION

BA in Architecture, University of Miami, 1985

### REGISTRATIONS/ CERTIFICATIONS

Registered Architect  
Florida No. AR103379

Mr. Estevez has a strong architecture and civil engineering background with extensive and progressively responsible experience in design, design management, construction, construction management, program management, and field supervision of state and federal infrastructure and building facility projects with values ranging from \$250,000 to \$1.5 billion. He has hard money experience in estimating, bidding, contract negotiation, and contract administration. Jorge is experienced in managing teams of professionals and handling interagency issues on behalf of owners. Jorge has managed the design of multiple at-grade and underground light rail transit stations, rail and vehicular bridges, emergency tunnel ventilation designs, and rail system maintenance facilities. He has also led regulatory agency interfaces and community presentations.

## RELEVANT EXPERIENCE

**HOUSTON METRO LIGHT RAIL EXPANSION DESIGN-BUILD | HOUSTON, TX | METROPOLITAN TRANSIT AUTHORITY OF HARRIS COUNTY | PROJECT DURATION: 7/2009 - 5/2021 | PROJECT DIRECTOR & DESIGN MANAGER** | This Parsons-led Houston

Rapid Transit joint venture project involved designing and constructing three light rail transit corridors, which entailed civil works components, associated light rail transit communications and train control, and traction power systems. The total length of the project was approximately 15 miles and included 23 stations. The project scope also included roadway improvements, stations, guideway, an emergency operations center, a service and inspection facility, and several major and minor bridges. A major project milestone was the successful implementation of an alternative train control technology requiring extraordinary coordination of Metro, City Services, and major stakeholders, allowing the replacement to be implemented and safety certified in time for the City of Houston to host the February 2017 Superbowl. As project director, Jorge has managed the Parsons-led Houston Rapid Transit joint venture to contract compliance and project completion and has provided agency and stakeholder coordination with the City of Houston, the Texas Department of Transportation, Union Pacific Railroad, BNSF Railway, the Houston Downtown Management District, and private property owners. As design manager during the project's inception, Jorge's responsibilities included managing the civil, utility, and structural designs for the North and East corridors, including 14 station platforms, 1 park-and-ride facility, 3 light rail transit - only bridges, and 1 combined traffic/light rail transit bridge. Also managed the design implementation in support of the budget and construction schedule.

**HUDSON-BERGEN LIGHT RAIL TRANSIT SYSTEM | JERSEY CITY, NJ | NEW JERSEY TRANSIT | PROJECT DURATION: 1/1999 - 1/2004 | SITE SUPERVISOR AND SITE MANAGER** | The Hudson-Bergen Light Rail System included 29 miles of light rail transit divided into multiple segments. Jorge served as site supervisor for 12 stations in the project's first segment, including station structures and finishes, supervising two nine-person, direct-hire, mixed-craft and non-craft crews that conducted station platform surveys, coordination, layout, and the installation of tactile and brick pavers, granite curbs, and colored concrete. Used hi-rail vehicles to deliver and distribute materials to stations that were inaccessible by roadway. Also supervised the design and installation of station artwork, amenities, and canopies and served as liaison between the artists, the owner, building trades, and regulatory, municipality, state, and federal agencies. As site manager under an exclusive cost reimbursable contract with New Jersey Transit within the design-build contract, Jorge was responsible for delivering both the Secaucus Road and Paterson Plank Road grade separation projects, which were key prerequisites to the continuation of the Hudson-Bergen Light Rail Transit System north of the completed Phase 1 effort. This phase included overseeing and verifying four construction contracts. Of critical importance was the daily coordination, management, scheduling, inspection, and supervision of all fieldwork and inspectors for construction of two 900-foot-long and two 1,200-foot-long, four-lane, continuous-span steel bridges; four 100-foot-long, single-span steel bridges; a 90-foot-long, three-lane concrete box girder span bridge; and nine associated exit and entrance ramps onto the key arterial roadways of Route 1 and Route 9.



# JEFFREY KEYT, PE MECHANICAL ENGINEER

**FIRM**  
Parsons Transportation  
Group, Inc.

**YEARS OF EXPERIENCE** 41

**EDUCATION**  
BS in Science, Mechanical  
Engineering,  
Rutgers University–New  
Brunswick, 1984

**REGISTRATIONS/  
CERTIFICATIONS**  
Professional Engineer  
New Jersey No.  
24GE03527600  
New York No. 070141  
Ontario No. 100215529  
Virginia No. 0402066185

Mr. Keyt has extensive experience providing inspection, design, and construction support for movable bridges and associated mechanical systems. He has experience with mechanical components for suspension bridges and other large bridges, including traveling maintenance platforms, large rolling and sliding bearings, and cables and wire rope. Jeff has coordinated multiple disciplines, including mechanical, electrical, structural, and civil on numerous bridge projects. He has also designed the mechanical components of the retractable roof of the new permanent PATH Station at the World Trade Center site in New York and has performed design for standpipe systems and pumps for bridges and tunnels.

## RELEVANT EXPERIENCE

**MADISON AVENUE BRIDGE OVER THE HARLEM RIVER | NEW YORK, NY | NEW YORK CITY DEPARTMENT OF TRANSPORTATION | PROJECT DURATION: 2018 - 2025 | MECHANICAL ENGINEER OF RECORD** | The Madison Avenue Bridge features Manhattan and Bronx approaches, two side spans, and a 304-foot-7-inch swing span. Parsons is replacing its mechanical and electrical systems to extend the bridge’s life, marking the first opening with Parsons-designed systems. Jeff leads the design of new machinery and supports construction through reviews of shop drawings, RFIs, and submittals.

**HAMLET SWING AND FIXED BRIDGE REPAIR | ONTARIO, CA | PUBLIC SERVICES AND PROCUREMENT CANADA | PROJECT DURATION: 2016 - 2023 | LEAD MECHANICAL ENGINEER AND MECHANICAL ENGINEER OF RECORD** | The Hamlet Swing and Fixed Bridge, located north of Orillia, Ontario, carries traffic over the Upper Severn River on the Trent-Severn Waterway. It features a 60m swing span and a 31m fixed span. Parsons handled all phases from planning through post-construction for the bridge repairs, upgrades, and replacements. Jeff designed the new mechanical and hydraulic systems for the swing bridge, including the center pivot bearing, balance wheels and track, span drive cylinders, end lift machinery, locking pin, hydraulic power unit, and HVAC for the control house. He also supported construction through reviews and site visits.

**GLEN ROSS SWING BRIDGE AND LOCK 7 CONCRETE REHABILITATION | ONTARIO, CA | PARKS CANADA | PROJECT DURATION: 2016 - 2020 | LEAD MECHANICAL ENGINEER** | Parsons provided engineering services for detailed design of a mechanized structural steel swing bridge and rehabilitation of a concrete lock chamber at the Glen Ross Lock 7 site located within the southern sector of the Trent Severn Waterway in Ontario, Canada. The scope of work included preparing a Class C cost estimate and functional and detailed design for roadway improvements required due to the raising of the bridge by 330mm. Jeff was responsible for the design of the new bridge machinery, including center pivot, span drive hydraulic cylinders, hydraulic end lifts, hydraulic locking pin, hydraulic power unit, end castors, balance wheels, and track.

**ANGUS L. MACDONALD BRIDGE CONSULTING SERVICES | NOVA SCOTIA, CA | HALIFAX-DARTMOUTH BRIDGE COMMISSION | PROJECT DURATION: 2017 - 2019 | MECHANICAL ENGINEER - MACHINERY SPECIALIST** | Parsons reviewed technical specifications and contract drawings on an as-needed basis for mechanical and electrical aspects of maintenance travellers for redecking of the Angus L. Macdonald Bridge. Jeff was responsible for reviewing the design of the machinery and recommending improvements, reviewing shop drawings and catalog cuts, and witnessing the factory testing for the first traveling maintenance platform.

**GOETHALS BRIDGE REPLACEMENT PUBLIC-PRIVATE PARTNERSHIP | ELIZABETH, NJ | PORT AUTHORITY OF NEW YORK AND NEW JERSEY | PROJECT DURATION: 2013 - 2019 | MECHANICAL ENGINEER OF RECORD** | Parsons served as lead designer for the design-build-finance-maintain project to replace the 1.2-mile toll bridge over the Arthur Kill Waterway, linking Elizabeth, NJ, and Staten Island, NY. The new bridge features dual 7,300-foot structures with 900-foot cable-stayed spans, designed for future transit loading. It includes long-span approaches with portal concrete frames and columns up to 135 feet tall on rock-anchored piles. Parsons performed nonlinear seismic analysis and performance-based design to optimize columns and bearings. Jeff handled all mechanical engineering for the bridge and utility buildings, including HVAC, gas, water, plumbing, fire protection, maintenance travelers, and standpipe systems.



# PAUL VINIK, PE, PCS

## COATINGS & CATHODIC PROTECTION QA/QC

### FIRM

Greenman Pedersen, Inc.

**YEARS OF EXPERIENCE** 27

### EDUCATION

MS in Chemical Engineering,  
University of South Florida, 1997

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 63032  
Society for Protective Coatings: Professional Coatings Specialist  
Society for Protective Coatings: Level 2  
Bridge Coatings Inspector - Course Instructor  
Society for Protective Coatings: C1  
Fundamentals of Protective Coatings - Course Instructor  
Society for Protective Coatings: C2 Planning and Specifying Industrial Coatings Projects - Course Instructor  
Society for Protective Coatings: C3 Lead Paint Removal  
National Association of Corrosion Engineers  
Corrosion and Protection of Concrete Structures and Buildings - Instructor

Mr. Vinik came to GPI with over 27 years' experience as a chemical engineer in the corrosion industry and over the last decade was the State Structural Materials Engineer for the FDOT. He was responsible for the FDOT's structural coatings program which included providing statewide technical assistance for coatings maintenance projects and maintaining standard specifications. He is currently the GPI Florida, Cathodic Protection Services Manager and is responsible for directional and technical management of all branch coating services. As a GPI Coatings Project Manager, he has managed multiple coating inspection retainer contracts with the LADOTD, MDOT, TxDOT and FDOT. Managing these contracts requires a solid understanding of the projects and the activities involved, pre-job assessments, submittal reviews, site-specific inspection plans, platform and containment erections, ventilation plans and compliance, pre-cleaning preparations, surface preparations, environmental and worker protection, coating applications, proper de-rigging and touch up painting, postjob sampling and to have the ability to pass this information on to the inspection staff so that client satisfaction is realized repeatedly through qualified quality assurance inspection services.

## RELEVANT EXPERIENCE

**FHWA BRIDGE PRESERVATION EXPERT TASK GROUP SUPPORT | NATIONWIDE | FEDERAL HIGHWAY ADMINISTRATION | PROJECT DURATION: 2018 - PRESENT | PRINCIPAL-IN-CHARGE** | Principal author of "A User's Guide to Removal and Replacement of Bridge Coatings." Under this task order, GPI is providing technical and administrative support to the FHWA Bridge Preservation Expert Task Group (BPETG). GPI's responsibilities include developing BPETG products, such as guides, white papers and case studies; presentations; and scheduling, organizing, and documenting face-to-face and virtual meetings. GPI will produce comprehensive technical reports of each BPETG face-to-face meeting suitable for posting on FHWA's website. GPI will also provide travel support for non- Federal members of the ETG.

**US-41/BRICKELL AVENUE OVER THE MIAMI RIVER BRIDGE COATINGS PROJECT MANAGER | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2020 - PRESENT | PROJECT MANAGER** | Provides project management /coordination, coating consulting services for this double leaf bascule bridge in which the existing coatings contained heavy metals and were replaced with a zinc rich primer, epoxy, polyurethane three-coat system. Responsibilities include reviewing contractor submittals and DIR reviews, inspector supervision, placement, and technical support for field personnel.

**MARTHUR CAUSEWAY | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2019 - 2020 | PROJECT MANAGER** | Coatings Project Manager. Provided project management/coordination for removal of heavy metal pigmented coatings and replacement with an FDOT APL system per FDOT section 561, similar to TXDOT item 446. Represented FDOT providing coating quality assurance inspection services, including reviewing contractor submittals for compliance with regulations. Collaboration with contractor and plan revisions were required due to wet abrasive blast system. A class 2W/2A containment was erected per approved plans. This structure is the main route to beaches with lane closures limited to 11AM to 5AM, requiring staging equipment on a barge beneath the structure. The project was completed on time and in compliance.



# AARON SPEISMAN

## COATINGS INSPECTOR

### FIRM

Greenman Pedersen, Inc.

**YEARS OF EXPERIENCE** 20

### EDUCATION

MS in Construction Management

Coursework, Baltimore Community College

BS in English, University of Florida

### REGISTRATIONS/ CERTIFICATIONS

TIN: S125010712810

AMPP PCS, 2021-901157

AMPP Sn. Certified Coating Inspector

AMPP Cathodic Protection Tester

AMPP Bridge Coatings Inspector - Level 1

ACI Concrete Tester

CTQP Concrete Specification

OSHA 10-Hour Construction Safety Training

OSHA 30-Hour Outreach Training

SSPC C-3 / C-5 Supervisor/Competent Person for

the De-leading of Industrial Structures

Final Estimates Level 1, CTQP

Mr. Speisman is AMPP Protective Coating Specialist / Senior Certified Coating Inspector. He is currently the GPI Florida Branch coatings project manager for various southeastern state DOT entities including FDOT District 6 District-Wide Asbestos and Lead Abatement Supervision and Inspection Services, LaDOTD Bridge Coatings Inspection Services, TxDOT Bridge Coatings Inspection Services. He has 20 years of field inspection experience including coating inspection on bridges and other steel structures and has performed multiple coating failure analysis and condition assessments during his career.

### RELEVANT EXPERIENCE

**SR-8A (I-110) BRIDGE PAINT/REHABILITATION | ESCAMBIA COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2017 - PRESENT | COATINGS INSPECTOR** | Florida Senior Coatings Inspector. The project scope of work consists of cleaning and coating the concrete surfaces including the piers, caps, barrier wall and retaining walls as well as cleaning and coating the steel box girders of bridge nos. 480159, 480162, 480163, 480164 and 480165. Cleaning and painting of bridge nos. 480163 and 480164 consists of cleaning and coating the steel box girder spans of the bridge to the south end bridge abutments. The concrete beam spans of bridge nos. 480163 and 480164 are excluded.

**HART BRIDGE REHABILITATION AND PAINTING PROJECT | JACKSONVILLE, FL | FDOT DISTRICT 2 | PROJECT DURATION: 2010 | COATINGS INSPECTOR** | The scope of work for this project included the full removal of existing lead-based paint, structural repairs and the full application of a high performance multi-coat system. For this 3400 LF throughtruss bridge which spans the historic St John's River, duties included ambient condition monitoring, surface cleanliness inspection, coatings mixing oversight, dry film thickness testing, containment monitoring and oversight of the contractor overall conformance with the project specification.

**SR-71 OVER CHIPOLA RIVER AND CYPRESS CREEK | SCOTT'S FERRY FL | FDOT DISTRICT 6 | PROJECT DURATION: 2021 | COATINGS INSPECTOR** | Senior Bridge Inspector on this \$800K project to rehabilitate these steel girder beam bridges. The scope of work for this project required the full removal of the existing coating system and application of a multi-coat system. Area of responsibility included monitoring ambient condition, surface cleanliness inspection, coatings mixing oversight, dry film thickness testing, containment monitoring and general oversight of the Contractor overall conformance with the project specification.

**INSPECTION AND ENVIRONMENTAL MONITORING STATEWIDE | LOUISIANA (STATEWIDE) | LADOTD | PROJECT DURATION: 2021 - PRESENT | QUALITY MANAGEMENT SYSTEMS MANAGER** | Provides project management / coordination services throughout the state of Louisiana on bridge structure de-leading and coatings projects. Responsibilities include coatings project management support during the submittal review process, coordination, placement, review and technical support of field personnel and contract technical support during the projects.



# CHAD DI BENEDETTO

## COATINGS INSPECTOR

**FIRM**  
Greenman Pedersen, Inc.

**YEARS OF EXPERIENCE** 5

**EDUCATION**  
Diploma, West Babylon  
High School, 1994

**REGISTRATIONS/  
CERTIFICATIONS**  
TIN: D15311576

SSPC Bridge Coating  
Inspector Level 2

NACE Coating Inspector  
Level 2

SSPC-C3 Lead/  
Hazardous Coating  
Removal

SSPC-C5 Lead Paint  
Removal Refresher

FDOT Temporary Traffic  
Control (TTC)

Advanced

FDOT Final Estimates Level  
2

OSHA 10 Hour  
Construction Safety  
Training

OSHA Confined Space  
Training

TWIC Card Holder

Mr. DiBenedetto’s protective coatings experience covers many phases of the industry; including inspection of coatings on steel and concrete span bridges, aesthetic concrete structures, ground storage liquid fertilizer tanks, structural steel shop inspections, coatings condition assessments as well as other responsibilities as needed.

### RELEVANT EXPERIENCE

**MSE WALL CONDITION ASSESSMENT | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2014 | COATINGS INSPECTOR** | Field evaluation of the existing coatings on the MSE Wall located at Griffin Road in Fort Lauderdale. The purpose of this evaluation was to determine the condition of the existing coatings and to recommend alternatives for coating rehabilitation which will provide continued protection. Assisted with site assessment and reporting.

**MAST ARMS ASSESSMENT | BROWARD COUNTY, FL | COATINGS INSPECTOR | PROJECT DURATION: 2014 | COATINGS INSPECTOR** | Survey of the coatings system on several sign structures along A1A in Pompano Beach. Assisted with the field evaluation and developed report detailing existing conditions with prioritized recommendations.

**SEMINOLE EXPRESSWAY BRIDGE PAINTING @ US17 / 92 & AIRPORT RD. | ORLANDO, FL | FDOT, TURNPIKE AUTHORITY | PROJECT DURATION: 2024 - CURRENT | SENIOR COATING INSPECTOR** | Performed quality assurance of contractor’s compliance with specifications for surface preparation and application of overcoat system on the existing steel bridge members as well as application of Class V coatings on the project MSE walls and various other concrete members. Duties included ambient condition monitoring, surface cleanliness inspection, coatings mixing oversight, wet film thickness testing, Class V spreadrate conversion and oversight of the contractor’s overall compliance with the project specification as well as timely and accurate submissions of inspection reports and monthly payment estimate quantifying and tracking.

**PORT OF MIAMI CRANE SPOT CLEANING AND PAINTING | MIAMI, FL | PMCM | PROJECT DURATION: 2023 - 2024 | LEAD COATING INSPECTOR** | Performed quality assurance of contractor’s compliance with specifications for spot abrasive blast / power-tool cleaning and maintenance coating application on 8 gantry cranes located in the Port of Miami. Duties included ambient condition monitoring, surface preparation inspection, coatings mixing oversight, dry film thickness testing and oversight of the contractor’s overall compliance with the project specification as well as timely and accurate submissions of QA inspection reports.

**SR 112 EB TO I-95 NB (BR. NO. 870305) REPAIR REHABILITATION & PAINTING IN MIAMI | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2015 | SENIOR PROJECT ENGINEER** | Project scope of work consisted of abrasive blasting

lead paint, and the application of a three coat steel painting system. Duties included ambient condition monitoring, surface cleanliness inspection, coatings mixing oversight, dry film thickness testing, and oversight of the contractor’s overall compliance with the project specification.



## IVAN LASA

### CATHODIC PROTECTION LEAD

#### FIRM

Greenman Pedersen, Inc.

**YEARS OF EXPERIENCE** 43

#### EDUCATION

BS in Civil Engineering,  
Polytechnic University of  
Puerto Rico

#### REGISTRATIONS/ CERTIFICATIONS

National Association of  
Corrosion Engineers

International Concrete  
Repair Institute (ICRI)

American Welding  
Society (AWS)

Society of Protective  
Coatings

Post-Tensioning Institute  
(PTI)

American Segmental  
Bridge Institute (ASBI)

Mr. Lasa has designed and prepared plans for over 200 structure rehabilitation projects featuring galvanic and impressed current cathodic protection systems for bridges and structures. As Project Engineer, he's worked on Federal Highway Administration and Strategy Highway Research Programs, developed specifications for Duplex coatings on FDOT Bridges, and led Florida's research on epoxy coated rebar corrosion in marine structures. He co-invented the "Sacrificial Cathodic Protection Pile Jacket" system (U.S. Pat. No. 5,714,045) and "Perforated Zinc Sheets" cathodic protection system (International Pat App. No. 92/13116). Mr. Lasa has instructed corrosion prevention courses internationally and chaired the NACE Reinforced Concrete Group (2017-2019), which develops corrosion control standards for reinforced concrete structures.

#### RELEVANT EXPERIENCE

**US-1/NW FEDERAL HIGHWAY OVER THE ST. LUCIE RIVER – ROOSEVELT BRIDGE | ST. LUCIE COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2020 - PRESENT | STRUCTURAL MATERIALS AND CORROSION SPECIALIST** | Structural Materials and Corrosion Specialist. Providing corrosion consulting services to assist with mitigation efforts required to arrest tendon corrosion for this 2000 ft long post tensioned precast concrete segmental bridge over navigable waters. Assists with corrosion evaluation to determine the extent of corrosion and the effort to determine the root cause.

**DISTRICTWIDE STRUCTURES REPAIR/REHABILITATION PLANS PREPARATION CONTRACT | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2019 - ONGOING | STRUCTURAL MATERIALS AND CORROSION SPECIALIST** | Continuing Services Contract involving miscellaneous Task Work Order (TWO) assignments including inspections and evaluations, scoping reports, bridge repairs (bridge deck cracking, spall repairs, slope stabilization), structural steel painting, cathodic protection systems, safety and geometry improvements, bridge approach improvements, wingwall repairs and reconstruction, and scour countermeasures. Mr. Lasa and his Team at the FDOT State Materials Office (SMO) provided oversight for materials and cathodic protection systems required as part of this contract.

**LONG KEY BRIDGE: REPAIR OF BRIDGE | MONROE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2023 - ONGOING | CORROSIONSPECIALIST** | Length: 2.3 Miles (2nd longest on the Overseas Highway), Built in 1981; The Long Key Bridge is located along SR 5/Overseas Highway in the Middle Keys connecting Long Key and Conch Key with Pier 1 located at MM 63.1. The first corrosion related damage on the bridge was discovered only five years after construction. Mr. Lasa designed and provided plans and specifications for the first project on the bridge dedicated to the implementation of corrosion control measures. Following, Mr. Lasa has been involved on all the projects related to corrosion repairs on the bridge either as a lead reviewer, or directly providing repair details to EORs contracted by District 6 to generate the project contract documents.



# FRANK MORALES CASAL

## CATHODIC PROTECTION SPECIALIST

**FIRM**  
Greenman Pedersen, Inc.

**YEARS OF EXPERIENCE** 9

**EDUCATION**  
BS in Civil Engineering,  
Superior Polytechnic  
Institute Jose Antonio  
Echeverria, 2015

Mr. Morales is a Structural Engineering Designer with 6 years of experience in commercial, residential, and multi-story building design, structural analysis, and forensic structural engineering. Experienced in the construction and remodeling of residential homes and worked as a corrosion field specialist at Florida Department of Transportation (FDOT) - State Materials Office. He is pursuing his professional growth working on obtaining additional expertise as a corrosion specialist, and seeking corrosion and coatings certifications.

### RELEVANT EXPERIENCE

**OLD ROOSEVELT BRIDGE | STUART, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2024 - ONGOING | STRUCTURAL ENGINEERING DESIGNER** | Mr. Morales is part of the team that design and assessment of corrosion cathodic

protection system on Old Roosevelt Bridge, located on Highway Dixie in Stuart, FL. The work on this structure included extraction of concrete test specimens for chloride content measurements on the deck. The cathodic protection system consists of the application of an epoxy overlay over the entire deck of the structure, including the sidewalks.

**US 41 CALOOSAHATCHEE BRIDGE | FORT MYERS, FL | FDOT DISTRICT 1 | PROJECT DURATION: 2024 - ONGOING | STRUCTURAL ENGINEERING DESIGNER** | Mr. Morales is part of the team that designed a cathodic protection system for Caloosahatchee Bridge rehab. The cathodic protection system consists of the installation of a Pile Jacket and Encapsulate Zinc Mesh Anode on the Struts, to protect the structure from chlorides.

**STRUCTURE S-160 | TAMPA, FL | SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT | PROJECT DURATION: 2023 - ONGOING | STRUCTURAL ENGINEERING DESIGNER** | Mr. Morales is part of the team that designed a cathodic protection system for the (SWFWMD) Water Control Structure S-160. The cathodic protection on the structure consists of a galvanic anode system that provides corrosion protection to the sections of the structure exposed to the high chlorides of the Tampa Bay in Tampa, Florida. The project also included the repairs of corrosion delaminated concrete and corrosion prevention to the areas of slightly corrosion activity.

**STRUCTURE S-551 | OLDSMAR, FL | SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT | PROJECT DURATION: 2024 - ONGOING | STRUCTURAL ENGINEERING DESIGNER** | EOR Team. Mr. Morales is providing field quality assurance as part EOR services contracted to GPI for the (SWFWMD) Water Control Structure S-551 rehabilitation project in Oldsmar, Florida. The project includes the installation of a cathodic protection system for the areas of the structure exhibiting high corrosion activity, concrete repairs, and the installation of a sheet pile wall cap reinforced with fiber reinforced polymer (FRP) rebar

**OLD SEVEN MILE BRIDGE | MARATHON, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2023 - ONGOING | STRUCTURAL ENGINEERING DESIGNER** | Mr. Morales is also working on the design of cathodic protection and general concrete repairs for the rehabilitation of the Florida Department of Transportation (FDOT) – Seven Mile Bridge in Marathon, FL. (Florida Keys). The cathodic protection will provide corrosion control to drilled shafts, columns, struts and footers on the bridge. In addition, the work includes providing corrosion prevention and concrete repairs to post-tensioned elements on the bridge.



# HERNANDO RAMOS, PE

## GEOTECHNICAL SERVICES QA/QC

### FIRM

HR Engineering Services, Inc.

**YEARS OF EXPERIENCE** 39

### EDUCATION

MS in Civil Engineering, Georgia Institute of Technology, 1988

MS in Civil Engineering, Florida International University, 1986

BS in Civil Engineering, University of Cartagena, Colombia, 1978

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, Florida No. 42045

Geotechnical engineer with over 39 years of experience in transportation, industrial, port, and civil infrastructure projects. His expertise includes the design, planning, and execution of new geotechnical works, as well as remedial procedures to address foundation issues in existing structures. He has significant experience with axial and lateral pile analyses, slope stability evaluations for retaining walls, and embankment projects utilizing geosynthetic reinforcement. His specialties also include the design of various retaining wall types, including mechanically stabilized earth, reinforced concrete, sheet pile cantilever, and anchored systems.

### RELEVANT EXPERIENCE

**SR 836 SW EXTENSION, FROM NW 137TH AVENUE TO SW 136TH STREET— PD&E STUDY | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 2013 - 2018 | PM / SENIOR ENGINEER** | The project consisted of a PD&E study for the Kendall Parkway. The field exploration included 62 roadway borings in areas of relatively easy drill rig access, 25 hand auger borings in areas of difficult drill rig access, 63 bridge borings, and percolation tests for drainage design. The borings indicated along extensive roadway sections unsuitable materials, with average muck thickness ranging from 1.0 to 2.3 feet, having a high individual thickness of about 5.0 feet. In addition, most of the roadway alignment is within private properties or environmentally sensitive areas that require special permits for the performance of the new boreholes. HRES conducted an extensive coordination with all these entities to successfully be able to perform the field work. Shallow and deep foundation alternatives are feasible for support of the new bridge structures. HRES prepared preliminary geotechnical reports for roadway and structures.

**SR 137TH AVENUE, FROM SW 26TH STREET TO SW 8TH STREET - DESIGN | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 2023 - ONGOING | PM/ SENIOR ENGINEER** | The project consisted of a roadway reconstruction including roadway widening drainage improvements and signalization at two intersections and pavement cores for milling and resurfacing. Provided geotechnical recommendations for construction of the roadway widening.

**SR 874 RAMP CONNECTOR TO SW 128TH STREET, DESIGN BUILD | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 2015 - 2022 | PM / SENIOR ENGINEER** | Performed the final field exploration and geotechnical design for the ramp connector from SR 874 to SW 128 Street. In addition, the project included MSE walls, roadway reconstruction, and drainage improvements

**SR 874/DON SHULA EXPRESSWAY FROM SW 88 STREET TO SR 826, DESIGN BUILD | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 2012 - 2014 | PM / SENIOR ENGINEER** | Performed the final field exploration and geotechnical design for bridge widening, noise walls, sign structures and roadway widening, and drainage improvements.

**SR 826/SR 836 PALMETTO EXPRESSWAY/DOLPHIN EXPRESSWAY INTERCHANGE COMPLEX, DESIGN BUILD | MIAMI-DADE COUNTY, FL | GMX / FDOT | PROJECT DURATION: 2010 - 2015 | PM / SENIOR ENGINEER** | The project consisted of the reconstruction of the entire interchange, including 46 new bridges (4 of them are segmental bridges), embankments, MSE walls and miscellaneous structures. Provided all final field exploration and geotechnical design of the project.

**SR 874/KILLIAN PARKWAY INTERCHANGE, FROM HEFT TO SW 88TH STREET | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 2004 - 2011 | PM / SENIOR ENGINEER** | Performed the final field exploration and geotechnical design for three bridge widening. Bridge over SR 874 continuous span structure with span length of 240 feet. The deck (concrete) and the steel structure were built together. The project has roadway widening, MSE walls, miscellaneous structures and 28,000 linear feet of noise walls.



# CHATUPHAT SAVIGAMIN, PHD, PE

## GEOTECHNICAL ENGINEER

### FIRM

HR Engineering Services, Inc.

**YEARS OF EXPERIENCE** 12

### EDUCATION

PhD in Geotechnical Engineering, Purdue University, 2022

Master of Business Administration, Cornell University, 2022

MS in Hydraulic & Hydrologic Engineering, Purdue University, 2021

MS in Geotechnical Engineering, University of Texas, 2014

BE in Civil Engineering, Chulalongkorn University, Thailand, 2011

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, Florida No. 96217

LEED Green Associate

Geotechnical Engineer with more than 12 years of experience ranging from professional services to academic research. He served as a Project Manager on various types of geotechnical services including earthwork, foundation/floor slab design, pavement evaluation/design, dynamic analysis, earth retaining structure design, site characterization, soil stabilization, and subsurface exploration. Mr. Savigamin has been involved with FDOT D4, D6, MDX, Miami-Dade County, Oklahoma Department of Transportation (ODOT), Oklahoma Turnpike Authority (OTA), projects.

## RELEVANT EXPERIENCE

**SW 137TH AVENUE, FROM SW 26TH STREET TO SW 8TH STREET - DESIGN | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 01/2023 | GEOTECHNICAL ENGINEER** | The project consisted of a roadway reconstruction including roadway widening drainage improvements and signalization at two intersections and pavement cores for milling and resurfacing. Provided geotechnical recommendations for construction of the roadway widening.

**SR 9/I-95 FROM 6TH AVENUE SOUTH TO NORTH OF SR 704/OKEECHOBEE BLVD. PD&E STUDY | PALM BEACH COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 01/2024- ONGOING | MAT SENIOR ENGINEER** | The project consists of the collection of all available geotechnical information and prepare two preliminary geotechnical reports, one for roadway and the other for structures. The project also includes research of the water elevations along the 6.5-mile segment of I-95.

**SR 5/US-1 SEVEN-MILE BRIDGE OVER MOSER CHANNEL – PD&E STUDY | MONROE COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 12/2023 - ON-GOING | MAT SENIOR ENGINEER** | The existing bridge piers are supported on two, 48-inch diameter drilled shafts. The current phase is at PD&E level, followed by the preparation of 30% bridge design plans as part of the design package to be submitted to design-built teams. Mr. Savigamin is working with the designer to provide 42, 48, and 60-inch diameter non-redundant and redundant shaft foundation alternatives for the new 215 pier structure.

**SR 5/US-1 LONG KEY BRIDGE OVER LONG KEY CHANNEL | MONROE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 08/2022 - ONGOING | MAT ENGINEER** | The project consists of the preparation of 30% project design plans for both a new bridge and roadway reconstruction for the planned design-built teams. The

project consists of land and overwater geotechnical field exploration. All land work has been completed and the water work will start in the winter of 2024. A preliminary geotechnical report has been submitted for preliminary pier foundations.

**SR 5/ OVERSEAS HIGHWAY OVER CHANNEL 5 BRIDGE #900098 REHABILITATION | MONROE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 06/2023 - ONGOING | ROLE** | This project consists of the repair of the existing bridge piers having concrete cracking/spalling of the column piers. The geotechnical scope consists of the performance of SPT and rock cores at 8 selected locations. The geotechnical information provided by the boreholes will be used to back calculate the actual capacity of the drilled shafts supporting the bridge as an attempt to determine if additional loading can be placed on the existing foundation.

**SR 907/ALTON ROAD FROM MICHIGAN AVENUE TO SOUTH OF ED SULLIVAN DRIVE/43RD STREET – PUMP STATIONS AND AN ANCHORED SHEETPILE WALL | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 03/2023 - ON-GOING | MAT ENGINEER** | The project consisted of the design of Pump Stations PS-100 & PS-200 and other retaining structures for the subject project. Performed all the field exploration and provided geotechnical recommendations for the foundation support of the pump stations and other retaining structures.



# DAVID RAMOS, PE

## GEOTECHNICAL ENGINEER

### FIRM

HR Engineering Services, Inc.

YEARS OF EXPERIENCE 00

### EDUCATION

BS, Civil Engineering, Florida International University, Miami, 2019

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer, Florida No. 98447

Civil Engineer with over 6 years of experience in civil engineering projects. Since joining HR Engineering Services, he has been involved with CADD drafting, soil sample description, laboratory supervision, performing axial and lateral pile analyses, preparation, and review of report of core borings and report preparation. Mr. Ramos has participated in over 30 geotechnical projects.

### RELEVANT EXPERIENCE

**SR 9/I-95 FROM 6TH AVENUE SOUTH TO NORTH OF SR 704/OKEECHOBEE BLVD. PD&E STUDY | PALM BEACH COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 01/2024 - ONGOING | MAT ENGINEER** | The project consists of the collection of all available geotechnical information and prepare two preliminary geotechnical reports, one for roadway and the other for structures. The project also includes research of the water elevations along the 6.5-mile segment of I-95. Mr. Ramos involvement in this project included providing geotechnical support to the Project Geotechnical Engineer, including driven pile, drilled shaft, and augercast pile capacity curves.

**JACKSON MEMORIAL HOSPITAL ED EXPANSION AND RENOVATION | MIAMI-DADE COUNTY, FL | JMH HEALTH SYSTEM | PROJECT DURATION: 10/2022 - 12/2023 | STAFF ENGINEER** | The project consisted of an evaluation of the shallow and deep foundation systems for support of the proposed 3-story JMH ED Expansion structure. Based on the latest plans, most columns are proposed to be supported on a shallow foundation system, except for the columns adjacent to the East Tower Building Basement which will be supported on augercast piles. Mr. Ramos provided geotechnical support for the final design, including pile capacity axial capacity analyses and reviewed of the shallow foundation bearing capacity and settlement evaluation under the supervision of the Project Geotechnical Engineer.

**JACKSON SOUTH HOSPITAL 5-STORY PARKING GARAGE | MIAMI-DADE COUNTY, FL | JMH HEALTH SYSTEM | PROJECT DURATION: 05/2022 - 12/2023 | STAFF ENGINEER** | The project consisted of an evaluation of the foundation support of the proposed 5-story parking garage on a deep foundation system. The foundation type selected was 18-inch diameter augercast piles. The geotechnical design included pile capacity analyses of axial compression, tension and lateral, in addition to pile single and group settlements. Mr. Ramos provided geotechnical support for the final design, including pile capacity axial capacity analyses and reviewed the settlement evaluation under the supervision of the Project Geotechnical Engineer.

**SR 9/I-95 AT ST. LUCIE WEST BOULEVARD, FROM CHAMPIONS WAY TO SW PEACOCK BOULEVARD | ST. LUCIE COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 05/2021 | MAT ENGINEER INTERN** | The project consisted of milling and resurfacing, roadway widening of St. Lucie West Boulevard and Ramps E, F, G, and H, new mast arm and sign structures, and a bridge widening over SR 9/I-95 Mr. Ramos' involvement in this project included the drafting effort, pavement cores data reduction and pavement report preparation.

**SOUTH CORRIDOR RAPID TRANSIT PROJECT/ MIAMI-DADE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS (DTPW) | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 06/2019 | STAFF ENGINEER** | The project consisted of a study for the South Corridor Rapid Transit, from SW 344th Street/West Palm Drive connecting with Dadeland South Station Metrorail Station in Miami-Dade, County, Florida. The project included the construction of new BRT stations and new access roadway lanes to the bus stations. Performed 25 pavement cores for milling and resurfacing, 28 SPT borings for BRT stations and 14 percolation tests to 15 feet for drainage design. Mr. Ramos' involvement in this project included the drafting effort, pavement cores data reduction and pavement cores report preparation.

**SW 168TH STREET PARKING GARAGE FOR SOUTH CORRIDOR RAPID TRANSIT PROJECT | MIAMI-DADE COUNTY DTPW | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 06/2019 | STAFF ENGINEER** | The project consisted of a total of 5 pavement cores, with 4 SPT borings to a depth of 2 feet base sample for milling and resurfacing, 2 percolation tests from 0 to 15 feet for drainage design and 7 SPT Borings to a depth of 100 feet for parking garage foundation design. Mr. Ramos involvement in this project included the drafting effort, pavement cores data reduction and pavement report preparation.



# MANUEL VERA JR., PSM

## SURVEY/MAPPING SERVICES QA/QC

### FIRM

Manuel G. Vera and Associates, Inc.

### YEARS OF EXPERIENCE

41

### EDUCATION

BS in Legal Studies, Nova Southeastern University, 1994

AS Land Surveying, Miami Dade College, 1998

### REGISTRATIONS/ CERTIFICATIONS

Professional Surveyor & Mapper, FL License No. LS5291

Maps, Boundary Surveys, Quality Assurance Reviews, Expert Witness Testimony, Title Search Plotting Maps, Title Document Review and Analysis, Sketched, Parcel Staking, and Legal Descriptions.

**SCOUR EVALUATION FOR BRIDGES WITH UNKNOWN FOUNDATIONS | FDOT DISTRICT 6 | DISTRICTWIDE | QA/QC MANAGER / CHIEF SURVEYOR AND MAPPER | MGV** was responsible for creating a Topographic Survey, including waterway cross-sections pursuant to bridge scour evaluations.

**DAVIE BLVD. MOVEABLE BRIDGE | WSP, INC. | BROWARD COUNTY | QA/QC MANAGER / CHIEF SURVEYOR AND MAPPER | MGV** provided Surveying, Subsurface Utility Engineering (SUE), and Utility Coordination services to support project design and construction. Services included design and right-of-way surveys, Quality Level B utility designations, and Quality Level A locates for accurate utility mapping and conflict avoidance. MGV also coordinated with Utility Agency Owners to assess impacts, easements, and relocation costs, and prepared the Utility Certification Package to ensure all utility issues were resolved prior to construction.

**BRIDGES OF THE ISLES & SUNRISE KEY BRIDGE REPLACEMENTS - SR 842 / LAS OLAS | GANNETT FLEMING, INC. / FDOT DISTRICT 4 | BROWARD COUNTY | QA/QC MANAGER / CHIEF SURVEYOR AND MAPPER |** Project improvements include demolishing and replacing the bridges at Royal Palm Drive, Nurmi Drive, Fiesta Way, and Isle of Venice and the bridge at Sunrise Key Boulevard, preserving and reusing the historic bridge urns and pedestals on the Las Olas Isles bridges, installing recessed low-level lighting similar to the existing lighting, widening the traffic lanes on the Las Olas Isles bridges to 10 feet and widening the sidewalks to 6 feet, and widening the traffic lanes on the Sunrise Key Boulevard bridge to 11 feet and widening the sidewalk to 7 feet. MGV was responsible for providing up to eleven (11) Utility Locates. Each locate (test hole) included horizontal coordinates, depth of cover, elevation, size, type, material and general direction of each utility.

Mr. Vera Jr., a registered Land Surveyor, has over 41 years of experience with the company and throughout the state of Florida. He has managed a variety of survey contracts and projects for the Florida Department of Transportation, Miami-Dade County, Miami-Dade Expressway Authority, City of Miami, surveying services, including Design Surveys, Right-of-Way Control Surveys, Right-of-Way Mapping, Platting, Construction Layout, As-built Surveys, and Drainage Surveys, among others. Mr. Vera is a Chief Surveyor and Mapper, as well as our Chief Executive Officer. He has extensive experience in the management and coordination of survey projects involving a variety of surveying techniques such as Aerial Surveys, Conventional Ground Surveying, and Utilities designation, etc.

## RELEVANT EXPERIENCE

**CONTINUING SERVICES FOR SURVEY, MAPPING, AND SUE (CAG53) - 429258-7-32-01 | FDOT DISTRICT 4 | DISTRICTWIDE | QA/QC MANAGER / CHIEF SURVEYOR AND MAPPER |** MGV Surveying and mapping services for this contract include, but are not limited to: Mobile Lidar, Field Surveys, Maintenance of Traffic (MOT), Historical Baseline and Existing Right of Way Determination, Global Positioning System (GPS) Surveys, Monumentation Surveys, Bathymetric surveys (which includes single beam, multi beam and side scanner sonar capabilities), Utility Designation and Excavation (including Underwater Utilities), Tree Surveys (trees identified by an Arborist or Landscape Architect), Right of Way Control Survey Maps, Right of Way Maps, Maintenance Maps, Right of Way Monumentation



# MARK R. SOWERS, PSM

## SURVEYOR

### FIRM

Manuel G. Vera and Associates, Inc.

**YEARS OF EXPERIENCE** 37

### EDUCATION

BS in Land Surveying, University of Florida, 1988

### REGISTRATIONS/ CERTIFICATIONS

Professional Surveyor & Mapper, Florida No. LS5266

Mr. Sowers is a Professional Surveyor & Mapper with 37 years of experience throughout the state of Florida. His responsibilities include managing field operations and establishing standards for consultants as well as final quality assurance / quality control of all deliverables before client submission. He is proficient in the latest industry technology, as well as developing and implementing successful management strategies. Mr. Sowers worked for the Florida Department of Transportation (FDOT), District IV for eight years, four of them as District Surveyor. During his FDOT tenure, Mr. Sowers actively participated in statewide process improvements. He was a chairperson for FDOT's Survey Technical Advisory Committee and a member of the committees responsible for the development and implementation of the staff-hour estimating form and project network control sheet.

## RELEVANT EXPERIENCE

**DAVIE BLVD. MOVEABLE BRIDGE | WSP, INC. | BROWARD COUNTY | SUE DIRECTOR / CHIEF SURVEYOR AND MAPPER | MGV** provided Surveying, Subsurface Utility Engineering (SUE), and Utility Coordination services to support project design and construction. Services included design and right-of-way surveys, Quality Level B utility designations, and Quality Level A locates for accurate utility mapping and conflict avoidance. MGV also coordinated with Utility Agency Owners to assess impacts, easements, and relocation costs, and prepared the Utility Certification Package to ensure all utility issues were resolved prior to construction.

**BRIDGES OF THE ISLES & SUNRISE KEY BRIDGE REPLACEMENTS - SR 842 / LAS OLAS | GANNETT FLEMING, INC. / FDOT DISTRICT 4 | BROWARD COUNTY | SUE DIRECTOR / CHIEF SURVEYOR AND MAPPER |** Project improvements include demolishing and replacing the bridges at Royal Palm Drive, Nurmi Drive, Fiesta Way, and Isle of Venice and the bridge at Sunrise Key Boulevard, preserving and reusing the historic bridge urns and pedestals on the Las Olas Isles bridges, installing recessed low-level lighting similar to the existing lighting, widening the traffic lanes on the Las Olas Isles bridges to 10 feet and widening the sidewalks to 6 feet, and widening the traffic lanes on the Sunrise Key Boulevard bridge to 11 feet and widening the sidewalk to 7 feet. MGV was responsible for providing up to eleven (11) Utility Locates. Each locate (test hole) included horizontal coordinates, depth of cover, elevation, size, type, material and general direction of each utility.

**PEMBROKE RD. (US 27-SW 160 AVE) MIRAMAR- MOBILE LIDAR | CRAVEN THOMPSON | BROWARD COUNTY | SUE DIRECTOR / CHIEF SURVEYOR AND MAPPER | MGV** conducted a Mobile LiDAR service for Pembroke Rd. (US 27-SW 160 Ave) in Miramar. The deliverables for this project include Mobile LiDAR control target specifications and location requirements, calibrated LiDAR point clouds in State Plane Coordinates (. PTS format), undistorted and georeferenced digital photography for the project corridor (JPG format), a tiling scheme to be provided (shapefile, MicroStation, or AutoCAD), and the Cyclone file.

**SR-818/GRIFFIN ROAD, MAINTENANCE MAP | FDOT DISTRICT 4 | BROWARD COUNTY | SUE DIRECTOR / CHIEF SURVEYOR AND MAPPER | MGV** is responsible for providing Design Survey/Mapping services, which include Alignment utilizing an existing alignment provided by the Department and placing it in the base file, Existing Right of Way utilizing an existing Right of Way provided by the Department and placing it in the base file, Established Maintenance Lines based on limits provided by the Department, Created Maintenance Map cover sheet for 1 sheet, and Maintenance Map detail sheet for 6 maintenance parcels, and compared final maintenance limits to proposed upgrades.



# CARLOS ALONSO, PSM, EI

## SURVEYOR

### FIRM

Manuel G. Vera and Associates, Inc.

**YEARS OF EXPERIENCE** 27

### EDUCATION

BS Civil Engineering, Florida International University, 2007

AS Land Surveying, Miami Dade College, 2003

### REGISTRATIONS/ CERTIFICATIONS

Professional Surveyor & Mapper, Florida No. LS6669

Engineering Intern, Florida No. 1100011603

Mr. Alonso is one of our licensed Surveyor & Mappers on staff. Mr. Alonso has over 27 years of experience in the surveying field. He is proficient with CAICE, GEOPAK, Microstation, AutoCAD, Trimble, GPSurvey, and Trimble Geomatics Office, Hector, EFBP, Terramodel as well as numerous other survey and office software. In addition, he has field experience with several instruments and data collectors including Trimble GPS units, TSC1, TSCE, ACU, Robotic Total Stations, and levels, Ashtech GPS units and a variety of other total stations, levels, and instruments. Mr. Alonso is up to date with the current technology and is well trained with the latest technology, Laser Scanning. He is very familiar with the preparation of: Design Surveys, Right-of-Way Control Surveys, Right-of-Way Mapping, Construction Layouts, As-built Surveys, Drainage Surveys, and many more.

### RELEVANT EXPERIENCE

**DAVIE BLVD. MOVEABLE BRIDGE | WSP, INC. | BROWARD COUNTY | SUE DIRECTOR / CHIEF SURVEYOR AND MAPPER |** MGV provided Surveying, Subsurface Utility Engineering (SUE), and Utility Coordination services to support project design and construction. Services included design and right-of-way surveys, Quality Level B utility designations, and Quality Level A locates for accurate utility mapping and conflict avoidance. MGV also coordinated with Utility Agency Owners to assess impacts, easements, and relocation costs, and prepared the Utility Certification Package to ensure all utility issues were resolved prior to construction.

**SR/SOUTHERN BLVD. (BRIDGE REPLACEMENTS #930097/930098) OVER INTERCOASTAL WATERWAY | BCC ENGINEERING, LLC | PALM BEACH COUNTY | SENIOR SURVEYOR AND MAPPER |** MGV provided Design Survey Services including a Topography/DTM, Bridge Survey, and R/W Staking. Performed a LiDAR static scan of pier 7 bascule pier rack beam level to compare previous scans for detectable movement. Located the parking lot pavement edge/sidewalk adjacent to the existing Right of Way.

**FDOT DISTRICT 4, SR 816 (OAKLAND PARK BLVD) AT NW 31ST AVE., LAUDERDALE LAKES | FDOT DISTRICT 4 | BROWARD COUNTY | SENIOR SURVEYOR AND MAPPER |** MGV is responsible for providing the following services: the establishment of horizontal (NAD 83/90) and vertical control (NAVD 88) networks, Alignment and Existing Right of Way Lines, Mobile LiDAR targets, Topographic survey, and Digital Terrain Model in 3D laser scanning, Planimetric in 2D laser scanning, Roadway Cross Sections/Profiles, Drainage Survey, Underground Utilities, Subdivision Location, Project Control Network, and Terrestrial Mobile LiDAR. MGV provides work zone safety as required by FDOT standards.

**SR814/ATLANTIC BLVD. FROM NW 27TH AVE. TO NW 16TH AVE. | BCC ENGINEERING, LLC | BROWARD COUNTY | SENIOR SURVEYOR AND MAPPER |** This RRR project runs along Atlantic Blvd (Roadway ID: 86130000) in Broward County from NW 27th Ave (MP 3.591) to NW 16th Ave (MP 4.591). The existing typical section consists of a 6-lane divided Urban Minor Arterial with 11' - 12' travel lanes, type F curb & gutter and sidewalk on both sides. The intent of the project is to mill and resurface the existing pavement, provide signal upgrades at the signalized intersections, and replace non-compliant pedestrian curb ramps. MGV is responsible of performing the necessary survey tasks to gather sufficient survey data to complete a Design Survey. The scope of services includes Horizontal and Vertical Control, Alignment, and existing R/W lines, Topographic survey/DTM (3D), Roadway Cross sections, Underground utilities, Mobile LiDAR targets, and Drainage survey.



# DAVID MCKAY, PSM, CP

## PHOTOGRAMMETRY SERVICES QA/QC

### FIRM

I.F. Rooks  
& Associates, Inc.

**YEARS OF EXPERIENCE** 42

### EDUCATION

Photogrammetric  
Technician Diploma,  
Algonquin College, 1982

### REGISTRATIONS/ CERTIFICATIONS

Registered Professional  
Surveyor and Mapper,  
State of FL No. 5435  
American Society of  
Photogrammetry & Remote  
Sensing (ASPRS, 1987)  
No. 10898  
Certified Photogrammetrist  
(1998) ASPRS No. 1114

Mr. McKay is an accomplished geospatial professional with 42 years of technical, managerial and leadership experience within the private sector disciplines of surveying, photogrammetric mapping, LiDAR and related geospatial services. He is a Florida licensed Professional Surveyor and Mapper as well as an ASPRS Certified Photogrammetrist. Experience includes the organization and management of major domestic and foreign surveying and mapping projects for rail, highway, electric and oil / gas transmission corridors. Business associations include federal, state and local government agencies, private sector engineering and surveying firms. During his career, Mr. McKay has served as the project manager, client liaison, direct of business development, technical compliance manager and/or surveyor of record for numerous state and local agency project undertakings.

### RELEVANT EXPERIENCE

**MIAMI DADE ENVIRONMENTAL RESOURCES DEPARTMENT OF SOLID WASTE FIVE (5) LANDFILL SITES | MIAMI-DADE COUNTY, FL | MIAMI-DADE FOR THE DEPARTMENT OF SOLID WASTE MANAGEMENT | PROJECT DURATION: 2018 - 2019 | PROJECT MANAGER** | Acquired color digital imagery with a GSD of 0.4 for five (5) Landfill sites in Miami-Dade for the Department of Solid Waste Management'. Utilized photogrammetric methods to produce a planimetric/topographic map, digital terrain model (DTM) and orthophoto mosaic for each site. Mr. McKay was the Project Manager responsible for all project administration, flight layout, control layout and quality control of final deliverables. Deliverables at 1" = 100' with 2.0' contours and orthophoto with 0.5' pixel for each site.

**SR 826 AT OKEECHOBEE ROAD INTERCHANGE | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2018 - 2019 | CHIEF SURVEYOR** | I.F. Rooks was contracted to perform a Low Altitude Helicopter photo mission. The

following procedures were utilized for this project: 3D topographic hard-surface survey along at intersection of SR-826 and US-27. Performed the flight utilizing helicopter at 350 feet above grade using a high precision aerial mapping camera with (FMC) forward motion compensation and with an average weighted resolution of 105 and above. Photography is at a negative scale of approximately 1" = 50'. Aerial targets were placed right and left of the alignment and spaced along the project as directed by the photogrammetrist. Analytical Triangulation was performed and DTM Collection: All data delivered as MicroStation files Raster imagery was provided in HMR & TIFF format from the fixed-wing flight.

**SR 826 FROM US 1 TO SR 836 | MIAMI-DADE COUNTY, FL | FDOT D6 | PROJECT DURATION: 2017 - 2018 | CHIEF SURVEYOR** | I.F. Rooks was contracted to perform a Low altitude and Fixed Wing photo mission to acquire imagery to provide a 3D Design File in Microstation SS-4, 1" = 50' & 1" = 200' digital mosaic in HMR & TIF Format.



# DAVID VINEYARD, CP

## PHOTOGRAMMETRY

### FIRM

I.F. Rooks  
& Associates, Inc.

**YEARS OF EXPERIENCE** 26

### EDUCATION

BS in Geography,  
Wright State University,  
1998

Tecumseh High School,  
1990

### REGISTRATIONS/ CERTIFICATIONS

ASPRS Certified  
Professional  
Photogrammetrist  
Certificate # 1495

David Vineyard is an ASPRS Certified Photogrammetrist and has over 26 years' experience in Photogrammetric mapping, Aerial triangulation, Ortho-photo production, Stereo compilation, Production of digital mosaics, LiDAR Manual Classification, LiDAR breakline support, ARC Geodatabase creation/Manipulation, Data Management and editing for ARC, Airborne GPS/IMU data processing, and Target placement/survey reconnaissance for control points. David utilizes many of the industry standards in software packages including AutoCADD with CADD Overlay, VR1/VR2 Photogrammetric Software, Decartes Application & Photoshop. He is also proficient in the use of BAE Digital Photogrammetric Workstation.

David is our Chief Photogrammetrist. In his position, David has overseen the completion of hundreds of FDOT design survey projects and serves as IFR's QA/QC reviewer for FDOT projects and his experience ensures accuracy standards have been met and that deliverables meet all scope requirements. He provides support and reinforcement to fellow employees regarding all tasks, document help and feedback/guidance to project managers.

## RELEVANT EXPERIENCE

**SR 826 AT OKEECHOBEE ROAD INTERCHANGE | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2018 - 2019 | CHIEF PHOTOGRAMMETRIST** | I.F. Rooks was contracted to perform a Low altitude and Fixed

Wing photo mission to acquire imagery to provide a 3D Design File in Microstation SS-4 and 1" = 40' digital mosaic in HMR & TIF Format. The flight was performed using the helicopter at 350 feet above grade using a high precision aerial mapping camera with (FMC) forward motion compensation and with an average weighted resolution of 105 and above. Photography is at a negative scale of approximately 1" = 50'. Analytical Triangulation was performed and DTM Collection: All data delivered as MicroStation files.

**SR 826 FROM US 1 TO SR 836 | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2017 - 2018 | CHIEF PHOTOGRAMMETRIST** | I.F. Rooks was contracted to perform a Low altitude and Fixed Wing photo mission to acquire imagery to provide a 3D Design File in Microstation SS-4, 1" = 50' & 1" = 200' digital mosaic in HMR & TIF Format.



# STEVEN A. LIPSON, CIH, CSP, CIAQP, CIAQC

## ABESTOS TESTING SERVICES QA/QC

### FIRM

Dade Moeller & Associates, Inc.

### YEARS OF EXPERIENCE 00

### EDUCATION

BS in Biology,  
University of Miami, 1990

### REGISTRATIONS/ CERTIFICATIONS

Certified Industrial Hygienist No. 7658 CP

Certified Safety Professional,

Comprehensive Practice, No. 14191

Certified Indoor Air Quality Professional, No. 497

Certified Indoor Air Quality Consultant, No. 0611045

Certified Indoor Environmental Consultant, No. 0801023

Florida Licensed Asbestos Consultant, No. AX-0000043

Florida Licensed Mold Consultant, No. MRSA-187

Mr. Lipson is nationally certified in Comprehensive Practice by the American Board of Industrial Hygiene (CIH) and by the Board of Certified Safety Professionals (CSP). He has also been licensed as an Asbestos Consultant by the State of Florida, and is certified as such in several States. He currently serves as Principal Scientist. In this capacity, Steven is responsible for the management and operation of water intrusion assessments, indoor air quality assessments, health & safety consulting services, abatement monitoring projects, worker exposure monitoring, air and drinking water sampling, and supervision of technical and field services staff. Steven has more than thirty years of experience in industrial hygiene and health & safety management, training, and compliance assurance. He has personally performed, overseen, and managed over a thousand indoor air quality consulting projects, spanning forty-nine States, Canada, New Zealand, and the Caribbean. He has further been designated NV5's Subject Matter Expert regarding the SARS-CoV-2 novel coronavirus.

### RELEVANT EXPERIENCE

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEY, FERN FOREST NATURE CENTER | BROWARD COUNTY, FL | BROWARD COUNTY PARKS AND RECREATION DIVISION | PROJECT DURATION: 2025 | ASBESTOS CONSULTANT** | Performed a renovation level/NESHAP asbestos survey of flooring materials planned for removal within a Broward County-owned building. The survey encompassed visual inspection, sampling of suspect materials in accordance with applicable regulations, and sample analysis by an NVLAP-accredited laboratory using Polarized Light Microscopy. Served as the Florida Licensed Asbestos Consultant for this project.

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEY, MAIN LIBRARY AHU REPLACEMENT | BROWARD COUNTY, FL | BROWARD COUNTY COMMISSION CONSTRUCTION MANAGEMENT DIVISION | PROJECT DURATION: 2024 | ASBESTOS CONSULTANT** | Served as the Florida Licensed Asbestos Consultant for this project (QA/QC), which consisted of a renovation level/NESHAP asbestos survey for the planned replacement of the air handling units at the Broward County-owned "Main Library". The survey involved visual inspection, sampling of suspect materials in accordance with applicable regulations, and sample analysis by an NVLAP-accredited laboratory using Polarized Light Microscopy.

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEY, PARKS ADMINISTRATION COMPLEX – NORTH BUILDING | BROWARD COUNTY, FL | BROWARD COUNTY PARKS AND RECREATION DIVISION | PROJECT DURATION: 2024 | LICENSED ASBESTOS CONSULTANT** | Performed a renovation level/NESHAP asbestos survey of flooring materials planned for removal within a Broward County-owned building. The survey encompassed visual inspection, sampling of suspect materials in accordance with applicable regulations, and sample analysis by an NVLAP-accredited laboratory using Polarized Light Microscopy. Served as the Florida Licensed Asbestos Consultant for this project.



# CANDICE ZAMMATARO, CIH, CIEC, MRSA ASBESTOS TESTING ENGINEER

## FIRM

Dade Moeller &  
Associates, Inc.

**YEARS OF EXPERIENCE** 13

## EDUCATION

BS in Environmental  
Science and Policy,  
University of South  
Florida, 2007

## REGISTRATIONS/ CERTIFICATIONS

Certified Industrial  
Hygienist, No. 12608 CP

Certified Indoor  
Environmental Consultant,  
No. 2005025

Florida Licensed Mold  
Consultant, No. MRSA-  
3373

Certified Radon  
Measurement Technician  
Asbestos Building  
Inspector – AHERA No.  
314141A

Ms. Zammataro is nationally certified in Comprehensive Practice by the American Board of Industrial Hygiene (CIH). She is responsible for the performance and management of scientific field studies including indoor air quality assessments, moisture-microbial evaluations, radon assessments, noise dosimetry, worker exposure monitoring, asbestos and lead projects, Phase I environmental site assessments, and other industrial hygiene evaluations. Ms. Zammataro has over 13 years' experience in the Industrial Hygiene and Environmental fields.

## RELEVANT EXPERIENCE

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEY, MAIN LIBRARY AHU REPLACEMENT | BROWARD COUNTY, FL | BROWARD COUNTY COMMISSION CONSTRUCTION MANAGEMENT DIVISION | PROJECT DURATION: 2024 | PROJECT/ CLIENT MANAGER |** Served as the Project/Client Manager for this renovation level/NESHAP asbestos survey. Eight air handling units in the County-owned "Main Library" were slated for replacement and the asbestos survey was performed for compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) concerning asbestos. The survey incorporated non-destructive sampling of suspect materials and sample analysis by an NVLAP accredited laboratory.

**DEMOLITION LEVEL/NESHAP ASBESTOS SURVEY, HOLLYWOOD BEACH GOLF COURSE AND CLUBHOUSE | BROWARD COUNTY, FL | CITY OF HOLLYWOOD | PROJECT DURATION: 2024 | PROJECT/ CLIENT MANAGER |** As the Project/Client Manager, managed the provision of asbestos consulting services for the planned renovation and demolition of multiple buildings at the Hollywood Beach Golf Course and Clubhouse, including client, site, and field services staff coordination; scope of work development; laboratory results interpretation; and report generation. The survey involved visual inspection, sampling of suspect materials, and sample analysis by an NVLAP accredited laboratory.

**DEMOLITION LEVEL/NESHAP ASBESTOS SURVEY AND LIMITED LEADED PAINT (XRF) SCREENING | FDEP BILL BAGGS CAPE FLORIDA STATE PARK | MIAMI-DADE COUNTY, FL | PRIVATE CLIENT | PROJECT DURATION: 2024 | PROJECT/CLIENT MANAGER |** Served as Project/Client Manager for this demolition level/NESHAP asbestos survey and limited leaded-paint screening via XRF. Eight concrete fishing piers with concrete pilings and fiberglass decking, as well as concrete seawalls were scheduled for replacement and the scope of work was performed for compliance with applicable regulations. The survey encompassed visual inspection, sampling of suspect asbestos-containing materials, and sample analysis by an NVLAP accredited laboratory using Polarized Light Microscopy. In addition, various painted surfaces were measured via XRF to determine lead-based paint presence.



# CLAUDIA CASTRO

## ASBESTOS TESTING ENGINEER

### FIRM

Dade Moeller & Associates, Inc.

**YEARS OF EXPERIENCE** 6

### EDUCATION

BS in Environmental Science, University of South Florida, 2017

### REGISTRATIONS/ CERTIFICATIONS

AHERA Asbestos Building Inspector

40-Hour OSHA Hazardous Waste Operations

LEED Green Associate

Qualified Stormwater Management Inspector

Ms. Castro is project manager in the environmental department. She has performed Phase I & Phase II Environmental Site Assessments (ESA), conducted field work for soil and groundwater sample collection and site reconnaissance for a variety of properties in Florida. In addition, she is well-versed in conducting thorough environmental permit reviews, ensuring that projects align with all relevant regulations and guidelines.

### RELEVANT EXPERIENCE

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEY/UNIFIRST PROFESSIONAL BUILDING | MIAMI-DADE COUNTY, FL | PRIVATE CLIENT | PROJECT DURATION: 2025 | AHERA BUILDING INSPECTOR** | Performed a renovation level/NESHAP asbestos survey for a multi-tenant office building slated for extensive interior renovations. The survey encompassed visual inspection, non-destructive sampling of suspect materials in accordance with applicable regulations, and sample analysis by an NVLAP accredited laboratory using Polarized Light Microscopy.

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEY/MAIN LIBRARY AHU REPLACEMENT | BROWARD COUNTY, FL | BROWARD COUNTY COMMISSION CONSTRUCTION MANAGEMENT DIVISION | PROJECT DURATION: 2024 | AHERA BUILDING INSPECTOR** | Performed a renovation level/NESHAP asbestos survey for the "Main Library" in Broward County prior to the replacement of eight air handling units for compliance with the National Emission Standards for Hazardous Air Pollutants (NESHAP) concerning asbestos. The survey involved visual inspection, nondestructive sampling of suspect materials in accordance with applicable regulations, and sample analysis by an NVLAP accredited laboratory using Polarized Light Microscopy.

**RENOVATION LEVEL/NESHAP ASBESTOS SURVEYS/ MIAMI-DADE COUNTY BRIDGES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2022 - 2025 | AHERA BUILDING INSPECTOR** | Performed renovation level/NESHAP asbestos surveys for bridges throughout Miami-Dade County in preparation for planned rehabilitation / repairs. Scope of work included a review and walkthrough of the survey areas, including the water side/lower portions of the structures. Areas of suspected asbestoscontaining materials were identified and sampled in accordance with applicable regulations. Collected samples were forwarded to a NVLAP accredited laboratory for analysis by Polarized Light Microscopy (PLM). Results of the sampling and analysis were compiled in the form of a written report outlining the findings and any appropriate recommendations.



# GISELE COLBERT

## PERMITTING SERVICES QA/QC

### FIRM

Smart-Sciences, Inc.

### YEARS OF EXPERIENCE 30

### EDUCATION

MS in Biology,  
Florida International  
University, 2000

### REGISTRATIONS/ CERTIFICATIONS

Licensed Environmental  
Professional No. 25

Certified FDEP  
Stormwater, Erosion and  
Sedimentation Control  
Inspector

OSHA 40 Hour  
HAZWOPER/OSHA 8  
HR

Ms. Colbert has 30 years of experience in managing and supervising technical projects and in leading inter-disciplinary teams consisting of engineers, geologists, ecologists and other technical experts. Ms. Colbert has extensive experience in all types of environmental permitting in the State of Florida (including Environmental Resource Permits (ERPs), Local Wetlands Permitting, Coastal Construction Permitting, Tree Permitting, Water Use Permit), as well as practical applications of wetland ecology and surface and groundwater hydrology in the South and Central Florida ecosystems.

### RELEVANT EXPERIENCE

**CARD SOUND BRIDGE PD&E SCOPING REPORT | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT D6 | PROJECT DURATION: 2024 | PRINCIPAL-IN-CHARGE AND PROVIDED QA/QC FOR ALL DOCUMENTS PRODUCED** | Smart-Sciences was hired to prepare a Project Development and Environment (PD&E) Scoping Report for potential replacement of Card Sound Bridge, which is one of two connections between mainland Florida and the Florida Keys. This was a high level assessment of documenting features pertaining to natural resources (i.e. wetlands, benthic resources) and contamination. Smart-Sciences prepared sections of the Scoping Report documenting potential ecological and environmental features and created a geodatabase containing relevant geospatial data which will be used to guide the next step of the PD&E process.

**NW 74TH STREET BRIDGE OVER THE MIAMI CANAL TYPE I CE AND ENVIRONMENTAL PERMITTING | MIAMI-DADE COUNTY, FL | SUB-CONSULTANT TO BCC | PROJECT DURATION: 2024 - ONGOING | PRINCIPAL IN CHARGE** | This project proposes

improvement to Bridge No. 874095 (approximately 135 LF) over the Miami Canal. Smart-Sciences is documenting the environmental conditions within the project limits, including presence of regulated trees, wetland habitat, and listed species habitat. In addition, databases for the presence of documented contaminated facilities within a 500-foot radius from the project site were reviewed and a Type I Categorical Exclusion Checklist (Type I CE) is being prepared. Smart-Sciences is also preparing the environmental documentation to obtain a SFWMD General Permit and USACE Nationwide Permit 3.

**ENVIRONMENTAL PERMITTING SUPPORT SERVICES AND WATER QUALITY EVALUATION, CULVERTING FLORIDA CITY CANAL | MIAMI-DADE COUNTY, FL | FLORIDA CITY | PROJECT DURATION: 2016 - ONGOING | LEAD SCIENTIST AND PRINCIPAL IN CHARGE** | This effort developed a study plan to evaluate water quality conditions in the Florida City Canal, and assess these against regional water quality data, known groundwater conditions, and base flow, as to evaluate the spatial-temporal variation of water quality conditions. Predictions of impacts from reduced base flow entering the canal and limitations placed upon direct sun exposure were evaluated. Ms. Colbert developed the plan, assessed results of samples collected, and prepared presentations and the final report to Miami-Dade County. Ms. Colbert also developed the turbidity and dissolved oxygen monitoring plans that were implemented during construction. Smart-Sciences submitted the FDEP404 Permit application for culverting Phase I of the canal. The report prepared included descriptions of land use, wildlife, alternative sites analysis, mitigation, protection of water quality and the engineering plans for culverting the canal. The 404 permit was issued in January 2023. Smart-Sciences is now working with the project engineer on Phase II of the canal culverting. Smart-Sciences is preparing the ecological and environmental reports to submit to Miami-Dade County for a Class IV permit, SFWMD for an ERP and FDEP for a 404 Permit.



# VALERIE MEBANE

## PERMITTING SPECIALIST

### FIRM

Smart-Sciences, Inc.

**YEARS OF EXPERIENCE** 15

### EDUCATION

MS in Soil Science,  
The Pennsylvania State  
University, 2011

BS in Environmental  
Resource Management  
(minors in Environmental  
Soil Science and  
Watershed & Water  
Resources), Pennsylvania  
State University, 2008

### REGISTRATIONS/ CERTIFICATIONS

Certified FDEP  
Stormwater, Erosion and  
Sedimentation Control  
Inspector

OSHA 40 Hour  
HAZWOPER/OSHA 8  
HR

PADI Diver Certification

Ms. Mebane has 15 years of ecological, environmental and Geographic Information Systems (GIS) consulting experience for government entities and private sector clients. Ms. Mebane's experience in the government sector includes 3.5 years providing guidance and oversight to Broward County hazardous material, storage tank, and wellfield facilities. Ms. Mebane has experience conducting wildlife surveys for threatened and endangered species, wetland delineations, marine benthic surveys, submerged aquatic vegetation (SAV) mapping, and environmental permitting in the State of Florida. She has managed numerous contamination assessment projects to characterize and map the extent and magnitude of soil and groundwater contamination at petroleum, chlorinated solvent, metal, and pesticide contaminated sites throughout south Florida. Ms. Mebane also has experience conducting Tank Closure Assessments, source removals, as well as soil management oversight and sampling at contaminated sites undergoing redevelopment.

### RELEVANT EXPERIENCE

**NORTH MIAMI BEACH STORMWATER IMPROVEMENTS PHASE | NORTH MIAMI BEACH | NORTH MIAMI BEACH AS SUB-CONSULTANT TO EAC | PROJECT DURATION: 2022 - ONGOING | LEAD SCIENTIST AND PROJECT MANAGER** | Smart-Sciences conducted a Phase I Environmental Site Assessment (Phase I ESA) and Ecological Assessment for proposed stormwater improvements within the Biscayne South and Highland Village neighborhoods to alleviate flooding occurring within existing development. The improvements included the installation of new outfalls which will discharge into the Oleta River State Park Annex as well as the installation of exfiltration trench systems. The purpose of the Phase I ESA was to identify potential sources of environmental contamination that constitute recognized environmental conditions (RECs) and vapor encroachment conditions (VECs), as defined by ASTM Practice E 1527-13. Ms. Mebane reviewed public records of numerous facilities such as landfills, drycleaners, automotive shops, and gasoline stations to determine the presence of RECs. Several RECs were identified from the file review. Ms. Mebane prepared the Phase I ESA report. Ms. Mebane also conducted an ecological assessment to identify potential environmentally sensitive

lands, wetland/mangrove occurrence, and areas of habitat conducive to listed species which may be impacted by the project. Ms. Mebane prepared a report which provided a discussion regarding regulatory implications for identified environmental and wildlife issues.

**VILLAGE OF KEY BISCAYNE BEACH RENOURISHMENT PROJECT | KEY BISCAYNE, FL | VILLAGE OF KEY BISCAYNE AS SUB-CONSULTANT TO EAC AND MOFFATT & NICHOLS | PROJECT DURATION: 2017 - ONGOING | LEAD SCIENTIST AND PROJECT MANAGER** | Smart-Sciences has conducted pre-construction and post-construction biological monitoring events for the Village of Key Biscayne Beach Renourishment Project for 7 years. This effort involved pre- and post-construction submerged aquatic vegetation (SAV) mapping and qualitative seagrass community surveys within the renourishment area to document the pre- and post-construction biological conditions, as well as at control sites for comparative measure. The seagrass mapping and qualitative seagrass community survey were conducted in accordance with the National Marine and Fisheries Service (NMFS) Recommendations for Sampling *Halophila johnsonii* and utilized the Braun Blanquet Cover Abundance Scale. Ms. Mebane conducted the seagrass surveys for the project site and utilized GIS to map the western seagrass edge, the seagrass density, and the seagrass species distribution along the transects (26 in project area and six control) based upon the Braun Blanquet data collected during the pre- and post-construction surveys. Ms. Mebane assisted with the comprehensive baseline pre-construction environmental monitoring report and annual post-construction environmental monitoring reports submitted to the Miami-Dade County Department of Regulatory and Economic Resources (DRER) and Florida Department of Environmental Protection (FDEP).



# MATTHEW WHITE

## PERMITTING SPECIALIST

### FIRM

Smart-Sciences, Inc.

### YEARS OF EXPERIENCE 00

### EDUCATION

MPS in Marine Science,  
Unity Environmental  
University, 2023

BS in Ecology and  
Evolutionary Biology, The  
University of California,  
Santa Cruz, 2011

### REGISTRATIONS/ CERTIFICATIONS

Master Diver (NAUI)

EANX Diver (NAUI)

Rescue Diver, Advanced/  
Open water Diver (NAUI)

Certified FDEP  
Stormwater, Erosion and  
Sedimentation Control  
Inspector #42769

OSHA 40 Hour  
HAZWOPER/OSHA 8  
HR1

Matthew White has 6 years of ecological, contamination, Geographic Information Systems (GIS) consulting experience for government entities and private sector clients. Mr. White has experience conducting wetland assessments, wildlife surveys for threatened and endangered species, tree surveys, marine benthic surveys, and submerged aquatic vegetation (SAV) mapping in the State of Florida. He also has 5+ years' experience conducting water quality surveys on numerous projects that included oversight and turbidity monitoring of soil removal from numerous water bodies throughout South Florida. Mr. White also conducted inspections for all FDOT's stormwater systems within District 4 in accordance with their MS4 NPDES permit.

### RELEVANT EXPERIENCE

**SR 844 AND 14TH STREET CAUSEWAY BRIDGE | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2022 - 2024 | LEAD SCIENTIST** | Mr. White helped conduct a seagrass survey to determine if there were any potential impacts present in the proposed work area for future construction on the 14th Street Causeway bridge. Mr. White conducted data collection, including photographs, sediment data, captaining the survey vessel, and coral and seagrass abundance data.

**DEL LAGO BRIDGE | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE | PROJECT DURATION: 2024 | LEAD SCIENTIST** | Mr. White conducted a benthic resources survey to assist with environmental permitting. Mr. White conducted the benthic resource survey including photographs, and sediment and seagrass data.

**SR A1A AND 17TH STREET BRIDGE SEAGRASS SURVEY | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2022 | LEAD SCIENTIST** | Mr. White conducted a benthic survey and assisted with the benthic survey report for an intracoastal waterway bridge along SR A1A and 17th Street. Responsibilities included data collection, including photographs, sediment data, and coral and seagrass abundance data.

**VILLAGE OF KEY BISCAYNE BEACH RENOURISHMENT PROJECT | KEY BISCAYNE, FL | VILLAGE OF KEY BISCAYNE | PROJECT DURATION: 2017 - ONGOING | PROJECT SCIENTIST** | Smart-Sciences has conducted pre-construction and post-construction biological monitoring events for the Village of Key Biscayne Beach Renourishment Project for 7 years. This effort involved pre- and post-construction submerged aquatic vegetation (SAV) mapping and qualitative seagrass community surveys within the renourishment area to document the pre- and post-construction biological conditions, as well as at control sites for comparative measure. The seagrass mapping and qualitative seagrass community survey were conducted in accordance with the National Marine and Fisheries Service (NMFS) Recommendations for Sampling Halophila johnsonii and utilized the Braun Blanquet Cover Abundance Scale. Mr. White conducted the seagrass surveys for the project site and utilized GIS to map the western seagrass edge, the seagrass density, and the seagrass species distribution along the transects (26 in project area and six control) based upon the Braun Blanquet data collected during the pre- and post-construction surveys. Mr. White assisted with the 2024 annual post-construction environmental monitoring reports submitted to the Miami-Dade County Department of Regulatory and Economic Resources (DRER) and Florida Department of Environmental Protection (FDEP).



# JAMES PEPE, MA

## CULTURAL RESOURCES SERVICES QA/QC

### FIRM

Janus Research, Inc.

**YEARS OF EXPERIENCE** 33

### EDUCATION

MA in Anthropology,  
Florida Atlantic University,  
1999

BA in English, University of  
Florida, 1991

### REGISTRATIONS/ CERTIFICATIONS

Florida Archaeological  
Council

Register of Professional  
Archaeologists

Meets the Secretary of  
the Interior's Professional  
Qualifications Standards

Mr. Pepe has experience on the full range of archaeological resources within South Florida ranging from the Archaic period to post-World War II sites. He has a comprehensive understanding of the Section 106 process and Chapter 267, F.S. He has evaluated the local significance and NRHP eligibility of hundreds of sites in Florida and leads Phase III Excavations for Everglades Restoration projects. He will be responsible for predictive modeling, NRHP evaluations, mitigation, and documentation. Mr. Pepe is intimately familiar with the unique environment and archaeological record of South Florida and the methods required to adequately identify and evaluate archaeological sites there. He has led multiple largescale Phase I, II, and III archaeological investigations in the interior wetlands of South Florida, including surveys for Palm Beach, Martin, and St. Lucie counties, the South Florida Water Management District, the Seminole Tribe of Florida, and the Miccosukee Tribe of Indians of Florida.

### RELEVANT EXPERIENCE

**GMX SR 836/DOLPHIN EXPRESSWAY SOUTHWEST EXTENSION (PD&E) STUDY | MIAMI-DADE COUNTY, FL | GMX | PROJECT DURATION: 2013 - 2025 | CHIEF ARCHAEOLOGIST** | Mr. Pepe led all aspects of this multi-year project. This work involved the management of multiple crews and many different proposed design changes. For this project, Mr. Pepe also obtained 1A-32, Right-of-Entry and Special Use permits from the Florida Bureau of Archaeological Research, Florida Department of Environmental Protection, the South Florida Water Management District, and Florida International University. Mr. Pepe oversaw all background research, including the development of zones of archaeological probability, all fieldwork, analysis, evaluations of National Register eligibility, and report preparation for the project. He frequently coordinated with project engineers to aid them with project designs that minimize effects to archaeological sites within the study area.

**SOUTH FLORIDA CONTEXT | EVERGLADES, FL | U.S. ARMY CORPS OF ENGINEERS (USACE) | CHIEF ARCHAEOLOGIST** | To provide the proper interpretive framework for Accelr8/CERP projects, Mr. Pepe authored a preliminary archeological context for southern Florida. The purpose of the Context was to identify and describe significant patterns of cultural development that took place within the CERP region from the Paleoindian through the post-Archaic periods. It provides a limited synthesis of all available archeological data for southern Florida that may be related to the CERP region. As such, the document is useful for all CERP projects as a research design component. The Context also serves as a framework within which archeological sites identified in the future can be understood and evaluated. The Context is currently used by Federal archeologists and private CRM firms conducting work on a variety of projects in southern Florida.

**COMPREHENSIVE EVERGLADES RESTORATION PROJECT (CERP) | EVERGLADES, FL | SOUTH FLORIDA WATER MANAGEMENT DISTRICT | PROJECT DURATION: 2005 - ONGOING | CHIEF ARCHAEOLOGIST** | Mr. Pepe serves as the Principal-in-Charge for all Everglades Restoration projects. Under contract with the South Florida Water Management District (SFWMD) since 2005, Janus Research provides the full range of cultural resource management services for the Comprehensive Everglades Restoration Plan (CERP) project, the largest wetland restoration project in the world. The project requires extensive consultation and coordination between Janus Research and a number of federal and state governmental agencies, including the USACE, NPS, US Department of Interior (DOI), the ACHP, Florida SHPO, Florida Bureau of Archaeological Research, and SFWMD, as well as the Seminole Tribe of Florida and the Miccosukee Tribe of Indians of Florida. Each phase of this project requires its own publication from research design to the data recovery documents. involved the treatment of Native American remains. At several Everglades sites, Mr. Pepe has led intensive research to delineate, identify, investigate, and ultimately, preserve precontact burial grounds held sacred by Native American Tribes. Janus Research has worked extensively with the USACE, SHPO, the State Archaeologist, SFWMD, and Native American Tribes to establish appropriate methods to investigate and identify burials at these sites as well as to determine their boundaries.



# AMY STREELMAN, MHP

## CULTURAL RESOURCES SPECIALIST

### FIRM

Janus Research, Inc.

**YEARS OF EXPERIENCE** 27

### EDUCATION

MS in Historic Preservation,  
University of Georgia,  
1998

BS in English,  
Florida State University,  
1993

Ms. Streelman has worked with Janus Research and within South Florida for over 27 years, primarily in the roles of Principal Investigator and Architectural Historian. A South Florida native, Ms. Streelman's academic focus and early career was based on the architecture of the region. Today, she is recognized for her expertise in navigating federal and state laws, regulations, and guidelines, including Section 106, 4(f), and NEPA. Her Department experience involves not only managing and conducting cultural resources assessment surveys for large and small transportation and transit projects, but also assisting with the preparation of documentation under the Section 106 PA, correspondence between agencies, and coordinating and conducting meetings with locally interested parties, agencies, and organizations. Ms. Streelman has also been instrumental in the development of numerous MOA documents and mitigation measures, including the more recent MOAs for SW 1st Street Bridge and Venetian Causeway PD&E. Mitigation measures that she has developed and implemented include large format photographic and HABS/HAER/HALS level documentation; markers, plaques, and displays along major transportation routes; restoration of historic landscapes; videos; and preparation of National Register nomination forms for previously unlisted historic resources.

## RELEVANT EXPERIENCE

**SR 836/I-395 PD&E STUDY | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 9/2018 - 2/2019 | ARCHITECTURAL HISTORIAN** | This project required a fast turnaround and involved the reevaluation of several PD&E commitments regarding the National Register-eligible Grove Park Historic District. The historic resources survey which identified 257 historic resources within the APE, 92 of which were newly identified and documented in the FMSF. The numerous significant resources required further effects documentation, and Janus Research also assisted with the NEPA Reevaluation document.

**SR 968/SW 1ST STREET BRIDGE PD&E STUDY | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 2017 | ARCHITECTURAL HISTORIAN** | Ms. Streelman met several times on site with the new owners of the historic Miami River Inn, prepared Section 106 and 4(f) documentation. Also worked on the HAER documentation stipulated in the MOA, which was accepted and approved by NPS.

**OLD SEVEN MILE BRIDGE REHABILITATION-KNIGHT KEY TO PIGEON KEY SEGMENT | MONROE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 10/2014 - 11/2015 | ARCHITECTURAL HISTORIAN** | Worked on identifying parameters and approaches for the appropriate rehabilitation of the bridge. Participated in field visits with FHWA and SHPO, attended local meetings in Monroe County, and facilitated plan reviews by the SHPO. Continues to assist District Six with review of ongoing efforts and preparation of State Historic Marker.

**VENETIAN CAUSEWAY PD&E STUDY | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | PROJECT DURATION: 4/2014 - ONGOING | ARCHITECTURAL HISTORIAN** | This high-profile project included an analysis of the rehabilitation or replacement alternatives for the NRHP-listed causeway and associated features. Prepared Sections 106 CRAS and Effects Cast Study Report, portions of 4(f) document, and the MOA (currently in draft form). Participated in public involvement, a critical aspect of the project. Recently, a virtual CRC meeting with FHWA and SHPO was held as part of the consultation process.



# MAX IMBERMAN, MA

## CULTURAL RESOURCES SPECIALIST

### FIRM

Janus Research, Inc.

**YEARS OF EXPERIENCE** 10

### EDUCATION

MS in Historic Preservation,  
University of South Carolina, 2015

BS in History and Political Science, New College of Florida, 2013

Mr. Imberman is a Miami-Dade County native with extensive experience in the field of historic resource identification and historic designation, especially in the area of National Register eligibility determinations and registration form completion. He is the author of 19 successful National Register nominations, including buildings, structures, roadways, and historic districts, eight of which were located in Miami-Dade County. He worked at the FDHR between 2017 and 2019, in the Survey and Registration section, preparing and evaluating historic contexts under the guidelines of Chapter 1A-46, Florida Administrative Code. He meets the US Secretary of the Interior's Professional Qualifications Standards for History and Architectural History defined by 36 CFR Part 61, and the Personnel Standards contained in the Consultant Qualifications Chapter (Section 1.3.1) of the Department Cultural Resources Management Handbook.

### RELEVANT EXPERIENCE

**SR A1A/COLLINS AVENUE AT 10TH STREET, 11TH STREET, 14TH STREET, AND 74TH STREET | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | CULTURAL RESOURCES SPECIALIST** | Prepared ERC comments for cultural resources project review, attended phase review meetings, conducted field work within the APE, and prepared a report under Chapter 267, Florida Statutes, to coordinate the project improvements within a National Register–ineligible historic roadway, two National Register–listed historic districts, and two City of Miami Beach locally designated historic districts, receiving FDHR concurrence. Also prepared and received concurrence for an update memo coordinating improvements added in the 100% plans set.

**TWO 12 SR 922/NW 125TH STREET | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | CULTURAL RESOURCES SPECIALIST** | Prepared ERC comments for cultural resources project review, attended phase review meetings, and prepared a report under Chapter 267, Florida Statutes, to coordinate the project improvements within the parcel of a National Register–ineligible building, receiving FDHR concurrence.

**SR 90/SW 8TH STREET SIGNALIZED INTERSECTION LIGHTING AND SR 90/SW 8TH STREET SIGNALIZED INTERSECTION LIGHTING | MIAMI-DADE COUNTY, FL | FDOT DISTRICT 6 | CULTURAL RESOURCES SPECIALIST** | Prepared ERC comments for cultural resources project review, attended phase review meetings, attended in-house coordination meetings, attended a public hearing, and prepared a report under the Section 106 PA, to coordinate the project improvements that intersected with a National Register–ineligible bridge and two SHH, receiving SHPO concurrence.

**FLORIDA KEYS CONNECTING OVERSEAS TO ADVANCE SAFE TRAVEL (COAST) CONNECTED VEHICLE PROJECT | MIAMI-DADE AND MONROE COUNTIES, FL | FDOT DISTRICT 6 | CULTURAL RESOURCES SPECIALIST** | Prepared ERC comments for cultural resources project review, attended in-house interagency coordination meetings, conducted field work within the APE, which spanned the entire Florida Keys, and prepared a report under the Section 106 PA, to coordinate the project improvements within a National Register–listed historic district and adjacent to segments of a historic roadway, receiving SHPO concurrence.

**HURRICANE IRMA PERMANENT REPAIRS | MONROE COUNTY, FL | FDOT DISTRICT 6 | CULTURAL RESOURCES SPECIALIST** | SR 5/Overseas Highway Northbound (NB) and Southbound (SB) - Prepared ERC comments for cultural resources project review of a Hurricane Irma recovery project, prepared a report under the Section 106 PA, to coordinate the project improvements within a National Register–ineligible segment of a historic roadway, receiving SHPO concurrence.



# BRIAN SHORE, RLA

## LANDSCAPE ARCHITECTURAL SERVICES QA/QC

### FIRM

Miller, Legg & Associates, Inc.

**YEARS OF EXPERIENCE 25**

### EDUCATION

Bachelor of Science,  
Landscape Architecture,  
North Carolina A&T  
University, 1995

### REGISTRATIONS/ CERTIFICATIONS

Registered Landscape  
Architect, Florida No.  
6666770, 2005

As a Senior Landscape Architect, Mr. Shore has significant experience in landscape architectural design and landscape construction services for a variety of public and private projects. Specialties include landscape, hardscape, and irrigation design services for streetscape and roadway projects including the Florida Department of Transportation (FDOT), all aspects of active and passive park design, healthcare campuses, and environmental wetland habitat creation. Other experience includes various residential and commercial projects.

### RELEVANT EXPERIENCE

**LAS OLAS STREETScape DESIGN | FORT LAUDERDALE, FL | CITY OF FORT LAUDERDALE / THE CORRADINO GROUP | PROJECT DURATION: 2020 - 2021 | SENIOR LANDSCAPE ARCHITECT** | Designed each of the four districts to retain its individual identity, while simultaneously being part of a cohesive complete street design including addressing bridges between Downtown Fort Lauderdale and The Beach. Responsible for planting design, placemaking and programming services, overhead shade structures, programming the pedestrian districts along the corridor which integrated hardscape design, seating design, and open space utilization, as well as multiple public outreach efforts including conceptual graphics and renderings to support meetings with homeowner association groups.

**SR 5/US 1/HENRY KINNEY TUNNEL/LAS OLAS TUNNEL PLAZA REHABILITATION | FORT LAUDERDALE, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2020 - 2023 | SENIOR LANDSCAPE ARCHITECT** | As subconsultant to Gannett Fleming, Miller Legg was responsible for providing landscape architecture, irrigation, hardscape and in-depth construction observation services for the highly urbanized US 1 corridor from I-595 to north of Broward Boulevard through the famous Henry Kinney Tunnel. Miller Legg's involvement in the high-profile project centered around the Henry Kinney Tunnel Top Plaza, a 115' terraced pedestrian plaza extension over the north US 1 tunnel, and its connection south to the New River. The Plaza included 'table topping' Las Olas Boulevard and three (3) existing plazas. The project transformed these four areas collectively into a cohesive pedestrian plaza experience, creating a unique, iconic, destination along Las Olas Boulevard. Funding for the pedestrian Plaza was through the City of Fort Lauderdale's 2016 Parks Bond and led by FDOT as part of the Henry Kinney Tunnel Rehabilitation, for which Miller Legg led collaborative efforts to meet the needs of both entities. Unique project features included fluid patterns of multi-colored textured concrete weaving throughout the four plazas and roadway, an iconic fountain centerpiece that doubled as an opportunity for public art, custom seat walls throughout, and a vibrant plant palette softening the urban hardscape. To maximize pedestrian usage of hardscape areas, Miller Legg utilized a system of underground tree cells to allow for additional root zone space for large canopy shade trees. Public engagement 3D rendering exhibits illustrating the transformation were produced during design for extensive coordination with the City administration, City Parks Bond Committee and public engagement.

**SR 838/SUNRISE BOULEVARD BRIDGE OVER MIDDLE RIVER | FORT LAUDERDALE, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2010 - 2016 | SENIOR LANDSCAPE ARCHITECT** | Miller Legg's Team provided in-house landscape architecture design services for the replacement of the Sunrise Boulevard Bridge over the Middle River in Fort Lauderdale. Extensive coordination with the City of Fort Lauderdale involved design efforts that included special architectural wall/vertical features, Florida Friendly landscape design, as well as hardscape and irrigation to ensure a Context Sensitive Solution was provided as an entry point to the eastern Fort Lauderdale beach communities along the Middle River. Post Design services were also provided. This project was part of a multi-year in-house continuing service contract for FDOT District 4 and was a 2017 FICE Engineering Excellence Award winner in the Bridge Category.

**LAS OLAS BOULEVARD IMPROVEMENTS CM AT RISK | FORT LAUDERDALE, FL | CITY OF FORT LAUDERDALE / SKANSKA | PROJECT DURATION: 2016 - 2020 | LANDSCAPE ARCHITECT** | Miller Legg provided civil engineering, landscape architecture, survey, SUE and constructability preconstruction phase services and document review to Skanska USA Building Inc. for the \$50 million Las Olas Boulevard Improvements project in Fort Lauderdale. The project was a partnership between the City of Fort Lauderdale and the Beach Community Redevelopment Agency (CRA) that will create a new gateway to Fort Lauderdale's Beaches.



# MIGUEL JUNCAL, RLA, CA

## LANDSCAPE ARCHITECT

### FIRM

Miller, Legg & Associates, Inc.

**YEARS OF EXPERIENCE** 21

### EDUCATION

Bachelor of Landscape Architecture, Minor in Environmental Science, University of Florida, 2004

### REGISTRATIONS/ CERTIFICATIONS

Registered Landscape Architect, Florida No. LA6667184, 2014

Certified Arborist, Florida No. FL9341A, 2014

Mr. Juncal is a Landscape Architect and Certified Arborist focused on a variety of public and private landscape architecture projects including roadway landscaping and irrigation, active and passive park landscape design, higher educational facilities as well as residential and commercial projects. Certified Arborist services include: tree species identification and inventories, tree surveys and canopy mapping, destroyed/damaged tree assessments, tree value estimates, tree grading, tree species selection for planting, mangrove trimming oversight and tree permitting.

## RELEVANT EXPERIENCE

**LAS OLAS STREETScape DESIGN | FORT LAUDERDALE, FL | CITY OF FORT LAUDERDALE / THE CORRADINO GROUP | PROJECT DURATION: 2020 - 2021 | LANDSCAPE ARCHITECT** | Designed each of the four districts to retain its individual identity, while simultaneously being part of a cohesive complete street design including addressing bridges between Downtown Fort Lauderdale and The Beach. Responsible for planting design, placemaking and programming services, overhead shade structures, programming the pedestrian districts along the corridor which integrated hardscape design, seating design, and open space utilization, as well as multiple public outreach efforts including conceptual graphics and renderings to support meetings with homeowner association groups.

**SR 838/SUNRISE BOULEVARD BRIDGE OVER MIDDLE RIVER | FORT LAUDERDALE, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2010 - 2016 | LANDSCAPE ARCHITECT** | Miller Legg's Team provided in-house landscape architecture design services for the replacement of the Sunrise Boulevard Bridge over the Middle River in Fort

Lauderdale. Extensive coordination with the City of Fort Lauderdale involved design efforts that included special architectural wall/vertical features, Florida Friendly landscape design, as well as hardscape and irrigation to ensure a Context Sensitive Solution was provided as an entry point to the eastern Fort Lauderdale beach communities along the Middle River. Post Design services were also provided. This project was part of a multi-year in-house continuing service contract for FDOT District 4 and was a 2017 FICE Engineering Excellence Award winner in the Bridge Category.

**SR 5/US 1 FROM NE 17TH WAY TO NE 33RD COURT | FORT LAUDERDALE, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2021 - 2024 | SENIOR LANDSCAPE ARCHITECT** | Miller Legg conducted a landscape analysis for this 3R project in Fort Lauderdale along SR 5/US 1 from NE 17th Way to NE 33rd Court, approximately 2.50 miles. The project scope entailed upgrading existing pedestrian curb ramps and installing detectable warning surfaces at substandard sidewalk extensions and wherever the sidewalk crossed commercial driveways with stop signs or traffic signals to meet ADA standards. Specific landscape architectural services included: site inventory and analysis and tree dispositions for proposed landscape, planting and irrigation designs, hardscape designs, and outdoor advertising coordination. Miller Legg was a subconsultant to GPI (f/k/a Horizon Engineering Group).

**SISTRUNK NEIGHBORHOOD PHASE III PEDESTRIAN ENHANCEMENTS | FORT LAUDERDALE, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2015 - 2016 | LANDSCAPE ARCHITECT** | For this pedestrian and streetscape enhancement project in the City of Fort Lauderdale's Sistrunk neighborhood, we coordinated landscape architecture design and post-design services with the FDOT, City, residents, and the landscape contractor including tree removal and landscape installation. The project improvements included the addition of sidewalks, decorative lighting, milling and resurfacing, drainage and landscape. These enhancements aimed to restore Sistrunk's streets to pedestrian-friendly, vibrant corridors, and help revitalize the neighborhood and its economy. This off-system project was completed under a Districtwide Minor Projects contract as a subconsultant to Stanley Consultants, Inc.

**COMMERCIAL BOULEVARD LANDSCAPING IMPROVEMENTS | TAMARAC, FL | CITY OF TAMARAC | PROJECT DURATION: 2020 - 2022 | LANDSCAPE ARCHITECT** | The City of Tamarac engaged Miller Legg to provide landscape architectural and survey services for the existing medians along 1.70 miles of West Commercial Boulevard in Broward County between North Pine Island Road and Sawgrass Expressway. In addition to landscape architecture, a certified arborist report and survey (including vacuum excavations) services, the Miller Legg team provided lighting and electrical services, irrigation design, permitting, and construction administrative services.



# ALICIA GONZALEZ

## PUBLIC INVOLVEMENT SERVICES QA/QC

**FIRM**  
Media Relations Group,  
LLC

**YEARS OF EXPERIENCE** 31

**EDUCATION**  
BS in Telecommunications,  
University of Florida, 1992

**REGISTRATIONS/  
CERTIFICATIONS**  
N/A

Mrs. Gonzalez has over 31 years of experience in working on multiple major public infrastructure projects. Mrs. Gonzalez has extensive experience working with FDOT Districts 1, 4, 5, 6, and 7, Florida’s Turnpike Enterprise, Miami-Dade County DTPW, TPO and WASD, Miami-Dade Expressway Authority, Central Florida Expressway Authority, and numerous municipalities in South Florida. As a 24-year resident of South Dade, she has served as a Principal of Media Relations Group, LLC, since its inception in 1999, successfully executing projects at all phases including Planning, PD&E, Design, Design-Build and Construction. Mrs. Gonzalez has extensive project management experience. As such, she has a deep understanding of the processes at each stage, the role it plays in the local transportation system and economy, and the products and services it provides.

### RELEVANT EXPERIENCE

**BROWARD COMMUTER RAIL PD&E STUDY | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2021 - ONGOING | PUBLIC INFORMATION MANAGER** | Mrs. Gonzalez is currently leading the public involvement efforts on this contract that has had several different phases to date. She assists with all the public meetings, countywide outreach, and coordination with Broward County among several agencies. Additionally, she manages project website updates and social media messaging.

**CR 510/85TH STREET FROM 2500 FEET WEST OF 82 AVENUE TO 58 AVENUE DESIGN PROJECT | INDIAN RIVER COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2018 - ONGOING | PUBLIC INFORMATION MANAGER** | MRG was contracted to complete all public involvement efforts on this design job including performing continuous updates on the FDOT Construction website, as well as coordination with municipality websites to provide residents with the latest project information. Mrs. Gonzalez is currently responsible for overseeing the lead public involvement staff on this contract.

**BROWARD MPO ADVANCING BOARD INITIATIVES | BROWARD COUNTY, FL | BROWARD COUNTY | PROJECT DURATION: 2015 - 2020 | PROJECT MANAGER** | Mrs. Gonzalez oversaw staff responsible for the web design efforts for this project which includes assisting the Board by preparing easy-to-understand, visually engaging materials that provides all readers with the detail they need to understand the MPO’s accomplishments.

**BROWARD MPO 2040 (COMMITMENT 2040) LONG RANGE TRANSPORTATION PLAN | BROWARD COUNTY, FL | BROWARD COUNTY | PROJECT DURATION: 2012 - 2014 | PROJECT MANAGER** | Mrs. Gonzalez advised the Broward Metropolitan Planning Organization and the Whitehouse Group on new and innovative public outreach methods for the 2040 update to its Long-Range Transportation Plan. She oversaw the development of the report’s overall brand, design and online presence and reviewed material developed by her staff that contained compelling content for distribution to multiple outlets, as well as content for a 30-second bilingual public service announcement.

**I-595 CORRIDOR IMPROVEMENTS DESIGN/BUILD/OPERATE/ FINANCE/MAINTAIN (DBFOM) | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2006 - 2014 | PROJECT MANAGER** | Mrs. Gonzalez oversaw all public information strategy in coordination with the District’s Public Information Office for the Design Phase, Design/Build, Criteria Package through construction and opening of the express lanes. She was responsible for managing the PIS staff assigned to this project as well as performing QA/QC for all deliverables. She developed the elected official strategy and conducted many elected official briefings with affected municipalities.



# DAYANA SANJURJO

## PUBLIC INVOLVEMENT SPECIALIST

### FIRM

Media Relations  
Group, LLC

**YEARS OF EXPERIENCE** 20

### EDUCATION

BS in Fine Arts, Interior  
Design, Art Institute of Fort  
Lauderdale, 2005

AA in International Fine  
Arts College, 2003

Ms. Sanjurjo is a seasoned public information and communications professional with over 20 years of experience managing complex campaigns, contracts, and initiatives across Planning, PD&E, Design-Build, and Construction projects for agencies such as Miami-Dade DTPW, Miami-Dade WASD, and FDOT. Fully bilingual in English and Spanish, she excels in stakeholder research, public communication, and planning and executing community outreach. She also oversees project databases, tracks progress, coordinates stakeholder meetings, and ensures deadlines are met while facilitating clear communication between staff and clients. She currently manages multiple transportation projects throughout Miami-Dade County and leads various initiatives, including safety campaigns for MRG.

### RELEVANT EXPERIENCE

**PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES | MIAMI-DADE COUNTY, FL | MIAMI-DADE COUNTY DTPW | PROJECT DURATION: 2021 - ONGOING | SENIOR COMMUNITY OUTREACH SPECIALIST** | Ms. Sanjurjo serves as the Senior Public Information Officer for this contract, working closely with the project team. She is responsible for developing project-related informational materials, including project fact sheets, Community Awareness Plans, and other collaterals. Additionally, she oversees the production of these materials and ensures effective communication of project information to stakeholders. She has worked on the following projects: Urgent Repair Design Project Bridge No. 874251 carrying SW 57th Avenue over Snapper Creek Canal, SW 288 Street over C-103-N Canal Bridge Repairs and South Hook Square Bridge Rehabilitation.

**SW 10TH STREET CONNECTOR - SAWGRASS EXPRESSWAY TO I-95 CDC | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2021 | COMMUNITY OUTREACH SPECIALIST** | Mrs. Sanjurjo assisted MRG's Outreach Specialists on this project and attended an event as part of the project's outreach efforts.

**BROWARD METROPOLITAN PLANNING ORGANIZATION (MPO) QUICK BUILD PROGRAM - COMPLETE STREETS INITIATIVE | BROWARD COUNTY, FL | BROWARD COUNTY | PROJECT DURATION: 2020 | COMMUNITY OUTREACH SPECIALIST** | MRG provides professional technical services in support of developing the Broward MPO's inaugural Tactical Urbanism/Quick Build Program. Mrs. Sanjurjo assisted the lead Public Outreach Specialist with outreach events as part of campaign outreach for this initiative.

**BROAD CAUSEWAY BRIDGE REPLACEMENT PD&E STUDY | BAY HARBOR ISLANDS, FL | TOWN OF BAY HARBOR ISLANDS | PROJECT DURATION: 2022 - 2024 | SENIOR COMMUNITY OUTREACH SPECIALIST** | Mrs. Sanjurjo was the lead Community Outreach Specialist for this project. She assisted the Public Information Manager with all aspects of public involvement as part of the study. In her role, she played a crucial part in engaging with the community, ensuring that stakeholders remained informed and involved throughout the process. She organized public meetings, and helped develop communication strategies to enhance public awareness and participation. Her efforts contributed significantly to fostering transparency and collaboration between the project team and the community.



# VANESSA SALINAS

## PUBLIC INVOLVEMENT SPECIALIST

### FIRM

Media Relations  
Group, LLC

### YEARS OF EXPERIENCE 7

### EDUCATION

BS in Fine Arts  
in Graphic Design, Minor  
in Social Media and  
E-Marketing Analytics,  
Minor in Art History,  
Florida International  
University, 2020

AA in Arts in Graphic  
Design, Miami  
International University of  
Art and Design, 2018

Ms. Salinas is a bilingual creative, skilled graphic designer with more than seven years of experience designing for marketing departments and freelance clients in a broad range of industries. She has demonstrated success working in collaborative environments and providing leadership to design teams to conceptualize and execute effective marketing collaterals. Vanessa currently serves as MRG's Lead Graphic Designer and provides MRG's Community Outreach Specialists with daily graphic design and other communication tasks. She currently works on multiple in-house and client-related projects simultaneously that include marketing campaigns, public event collaterals, project presentations, print design, infographics, email newsletters, social media messaging, website editing, video production and editing, photography, and branding.

### RELEVANT EXPERIENCE

**STATE ROAD (SR) A1A FROM SOUTH OF EAST LINTON BOULEVARD TO NORTH OF SR 806/EAST ATLANTIC AVENUE | PALM BEACH COUNTY, FL | ALLBRIGHT ENGINEERING | PROJECT DURATION: 2022 - 2023 | SR. GRAPHIC DESIGNER** | Ms. Salinas provided high-level graphic services for this roadway and safety improvement project in Delray Beach including creating a project location map, informational public meeting flyer and all public meeting materials (print and digital).

**STATE ROAD (SR) 804/BOYNTON BEACH BOULEVARD FROM N CONGRESS AVENUE TO NW 8TH STREET | PALM BEACH COUNTY, FL | CHA SOLUTIONS | PROJECT DURATION: 2022 - 2023 | SR. GRAPHIC DESIGNER** | This project is to extend the service life of the pavement by milling and resurfacing, and to enhance roadway safety along SR 804/Boynton Beach Boulevard located in Palm Beach County. Ms. Salinas designed the name tags, comment box inserts, sign-in sheets, and comment forms for a public meeting held in October 2023. She also ran a hybrid/virtual public meeting on the backend and provided post meeting analytics, recording and editing.

**STATE ROAD (SR) 7/US 441 FROM NORTH OF GLADES ROAD TO NORTH OF BRIDGEBROOK DRIVE, | PALM BEACH COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2023 - 2024 | SR. GRAPHIC DESIGNER** | This design project involved repaving the existing roadway and shoulders, improving traffic and pedestrian signals and replacing signing and pavement markings along a 3.422-mile corridor. Ms. Salinas was responsible for creating all graphics associated with this project including the public meeting flyer, public meeting materials (print and digital) and the project location map.

**SR 842/BROWARD BOULEVARD RESURFACING, RESTORATION AND REHABILITATION | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2021 - ONGOING | SR. GRAPHIC DESIGNER** | As the graphic designer on this contract, Ms. Salinas is responsible for the design and preparation of informational materials for the Broward Boulevard Resurfacing, Restoration and Rehabilitation public meetings. Materials include project area maps, newspaper advertisements, social meeting notices, name tags, comment box inserts, sign-in sheets, and comment forms.

**BROWARD COMMUTER RAIL PD&E STUDY | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2021 - ONGOING | SR. GRAPHIC DESIGNER** | Ms. Salinas is responsible for the development of collaterals/informational materials for the Broward Commuter Rail PD&E Study public meetings. Materials include mailers, postcards, newsletters, Frequently Asked Questions sheets (FAQs), fact sheets, newspaper advertisements, social media partner posts, meeting notices, name tags, comment box inserts, sign-in sheets, and comment forms.



# ALI AKBAR SOHANGHPURWALA

## CORROSION SPECIALIST

**FIRM**  
CONCORR, Inc.

**YEARS OF EXPERIENCE** 39

**EDUCATION**  
MS in in Ocean  
Engineering,  
Florida Atlantic University,  
1988

BS in in Naval  
Architecture,  
IIT Madras, 1984

**REGISTRATIONS/  
CERTIFICATIONS**  
NACE Corrosion  
Specialist #4422, 1992

NACE CP Specialist  
#4422, 1992

NRMCA Concrete  
Technologist, 1988

Mr. Sohahngpurwala is recognized as one of the top professionals in the country dealing with corrosion of metals in concrete. His experience is well rounded in all areas of corrosion mitigation technology and he has been fortunate enough to be involved in the entire spectrum of the corrosion mitigation industry. His experience and expertise in research and development of corrosion condition evaluation and mitigation technologies is well supplemented by his experience in the everyday use of these technologies in the field.

### RELEVANT EXPERIENCE

**SUNSHINE SKYWAY BRIDGE ASSET MANAGEMENT | TAMPA, FL | FDOT DISTRICT 7 | PROJECT DURATION: 2026 - ONGOING | CORROSION SPECIALIST** | Maintain the structure and ensure its preservation.

**CORROSION CONDITION EVALUATION OF THREE BRIDGES | BAY HARBOR, FL | TOWN OF BAY HARBOR ISLANDS, FL | PROJECT DURATION: 2010 | CORROSION SPECIALIST** | Conducted corrosion condition evaluation and provided recommendations for repair and rehabilitation.

**JULIA TUTTLE BRIDGE | MIAMI, FL | FDOT DISTRICT 6 | PROJECT DURATION: ONGOING | CORROSION SPECIALIST** | Conduct corrosion condition evaluation, perform service life modeling, and design cathodic protection systems.

**EAST PASS BRIDGES | DESTIN, FL | FDOT DISTRICT 3 | PROJECT DURATION: ONGOING | CORROSION SPECIALIST** | Conduct corrosion condition evaluation, perform service life modeling, identify applicable repair and rehabilitation strategies, and design repair and rehabilitation if replacement is not recommended.

**BRICKELL BRIDGE | MIAMI, FL | CITY OF MIAMI | PROJECT DURATION: ONGOING | CORROSION SPECIALIST** | Perform corrosion condition evaluation.

**SEVEN MILE BRIDGE | FLORIDA KEYS | FDOT DISTRICT 6 | PROJECT DURATION: 2024 | CORROSION SPECIALIST** | Conduct corrosion condition evaluation, perform service life modeling, identify elements that need corrosion mitigation to extend their service life by 17 years before the structure is replaced.

**BAHIA HONDA BRIDGES | FLORIDA KEYS | FDOT DISTRICT 6 | PROJECT DURATION: 2024 | CORROSION SPECIALIST** | Conduct corrosion condition evaluation, perform service life modeling, identify elements in need of repair and rehabilitation, and design cathodic protection systems including a solar powered impressed current system.

**SPANISH HARBOR BRIDGE | FLORIDA KEYS | FDOT DISTRICT 6 | PROJECT DURATION: 2023 | CORROSION SPECIALIST** | Conduct corrosion condition evaluation, perform service life modeling, assist with design of galvanic cathodic protection system.

**WALLOPS ISLAND BRIDGE REPLACEMENT | WALLOPS ISLAND, VA | NASA | PROJECT DURATION: 2025 | CORROSION SPECIALIST** | Perform service life modeling for a new structure in accordance with AASHTO Guide Specifications for Service Life Design of Highway Bridge Structures.

**HOWARD FRANKLAND BRIDGE | TAMPA, FL | FDOT DISTRICT 7 | PROJECT DURATION: 2025 | CORROSION SPECIALIST** | Conduct corrosion condition evaluation and perform service life modeling for substructure elements.

**I-95 OVER ST. MARY'S RIVER | NASSAU COUNTY, FL | FDOT DISTRICT 2 | PROJECT DURATION: 2023 | CORROSION SPECIALIST** | Perform condition evaluation of post-tensioning on the pier caps.

**RT 19 BRIDGE | PERRY, FL | FDOT DISTRICT 2 | PROJECT DURATION: 2021 | CORROSION SPECIALIST** | Conduct condition evaluation of post-tensioned rods in Sonovoid deck slabs.



# MARK GOSSELIN, PHD, PE

## COASTAL HYDRAULICS/SCOUR ENGINEER

### FIRM

INTERA Incorporated

YEARS OF EXPERIENCE 35

### EDUCATION

PhD in Coastal and Oceanographic Engineering, University of Florida, 1997

MS in Naval Architecture and Offshore Structures, University of California at Berkeley, 1992

BA in Engineering Science, Dartmouth College, 1990

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 54594

Dr. Gosselin has nearly three decades of experience in coastal processes, nearshore and open channel hydrodynamics, and sediment transport. Dr. Gosselin has served as project manager on hundreds of scour and hydraulics assessments of bridges and coastal structures throughout the country and has served as project manager on numerous coastal engineering studies that have involved wave, hurricane storm surge, riverine flooding, and dam break hydraulic modeling. Dr. Gosselin has authored design guidelines at both the state and federal level addressing bridge scour and hydraulic design in tidally affected waterways.

### RELEVANT EXPERIENCE

**CITY OF FORT LAUDERDALE CONTINUING STRUCTURAL SERVICES | BROWARD COUNTY, FL | CITY OF FORT LAUDERDALE, PUBLIC WORKS/ENGINEERING SERVICES | PROJECT DURATION: 2016 - ONGOING | LEAD COASTAL HYDRAULICS ENGINEER FOR THE SEAWALL MASTER PLAN.** | Structural Engineering Services for City of Fort Lauderdale owned structures. Task work order assignments included structural design, assessments, inspections, and public agency and stakeholder coordination for City structural projects. Project Role: Project Manager and Engineer-of-Record for the Seawall Master Plan. This assignment inspected, assessed, and prioritized repairs for 4.3 miles of seawall structures and 2.0 miles of natural bank.

**FEASIBILITY STUDY TO IMPROVE NAVIGATION THROUGH THE FEDERAL HIGHWAY BRIDGE OVER THE DANIA CUTOFF CANAL | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2016 | PROJECT MANAGER** | During certain phases of the tide, navigation through the Federal Highway Bridge along the Dania Cutoff Canal can be treacherous due to the high velocities that occur due to the constriction caused by the bridge. The

District issued a task work order under its Districtwide Drainage contract to investigate alternatives to alleviate the high currents through the bridge. The study evaluated bank modification, fender modification, bridge pier relocation, and aids to navigation for their effectiveness, cost, and constructability.

**REPLACEMENT OF THE NE 23RD AVENUE BRIDGE OVER IBIS WATERWAY | BROWARD COUNTY, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2017 - 2018 | ENGINEER OF RECORD** | Project involved the development of the bridge hydraulics report in support of the design of the replacement bridge. Work involved application of both a 2D storm surge ADCIRC model and a 1D runoff HEC-RAS model. Additional responsibilities included development of the design scour, clearances, and abutment protection. Navigation and drift clearances included sea level rise.

**ROCK SCOUR ASSESSMENT OF BRIDGES 860060 AND 930064 | BROWARD AND PALM BEACH COUNTIES, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2018 | PROJECT MANAGER** | Project involved application of the FDOT rock scour procedure to determine the depth of scour in underlying cohesive bed sediments. Procedure application resulted in a reduction in the predicted local and contraction scour and involved reclassification of the scour rating of the bridges.

**SR-A1A OVER SEBASTIAN INLET BRIDGE REPLACEMENT HYDRAULIC AND SCOUR ANALYSIS | INDIAN RIVER AND BREVARD COUNTIES, FL | FDOT DISTRICT 4 | PROJECT DURATION: 2022 - PRESENT | QUALITY CONTROL REVIEWER** | Provided quality control for the development of a bridge hydraulics report supporting the new bridge design. The location of the proposed bridge, crossing a tidal inlet, required development of the design surge and wave climate during a hurricane landfall event. The development of the design conditions employed the ADCIRC+SWAN surge and wave models that simulated conditions during the 50-, 100-, and 500-year return period events. Results of the modeling provided hydrodynamic inputs to calculate scour at the bridge foundation, set low chord elevations, design abutment protection, and calculate wave forces on both the replacement bridge and proposed fishing pier. Responsibilities included review of all technical work as well as deliverables.



# LEANDRO FERNANDEZ, PE

## LIVING SHORELINES

### FIRM

Kind Designs

**YEARS OF EXPERIENCE** 21

### EDUCATION

BS in Civil and Environmental Engineering, Florida International University, 2004

### REGISTRATIONS/ CERTIFICATIONS

Professional Engineer  
Florida No. 71519

Leandro Fernandez is a licensed Professional Engineer in Florida with 21 years of experience in structural engineering, specializing in seawalls, marine infrastructure, and waterfront construction. As Lead Engineer at Kind Designs, Leandro oversees the structural design and integration of Living Seawall systems across a variety of public and private projects. His role includes collaborating with permitting agencies, marine contractors, and multi-disciplinary teams to develop resilient, ecologically beneficial shoreline solutions.

Prior to Kind Designs, Leandro served as founder and principal of Leaf Engineering, where he was Engineer of Record for over 500 seawall, dock, marina, and erosion control projects throughout South Florida. His background includes structural inspections, foundation and building design, and aquaculture system development.

## RELEVANT EXPERIENCE

**RIVERWALK NORTH SEAWALL REPLACEMENT PILOT | FORT LAUDERDALE, FL | CITY OF FORT LAUDERDALE / HBC ENGINEERING | PROJECT ENGINEER** | As part of the City of Fort Lauderdale’s Riverwalk North Seawall Replacement

Project, Kind Designs is collaborating with HBC Engineering and City of Fort Lauderdale staff to incorporate Living Seawall Tiles into the replacement of an aging seawall system. The project includes installation of steel sheet piles, floating docks, and upland improvements. Living Seawall Tiles are currently under specification and design development.

**700 BRYAN PLACE LIVING SEAWALL | FORT LAUDERDALE, FL | SEASIDE MARINE CONSTRUCTION | PROJECT ENGINEER** | Residential project featuring approximately 100 linear feet of Living Seawall, including 10 custom panels supported by king and batter piles. This project received a 100% riprap reduction waiver from Broward County Environmental Permitting, with a monitoring requirement. The Living Seawall will provide ecological enhancements while meeting all structural performance needs.

**CHURCH BY THE SEA LIVING SEAWALL | FORT LAUDERDALE, FL | OCEAN CONSULTING/ SOUTHEAST MARINE CONSTRUCTION | PROJECT DURATION: ONGOING | PROJECT ENGINEER** | This 900-linear-foot commercial seawall replacement project will use Living Seawall panels combined with a structural support system of king and batter piles. The project replaces a deteriorating concrete seawall and includes a habitat-focused landscape design by Cadence Living. The goal is to enhance water quality and biodiversity while providing long-term shoreline resilience.

**BAYFRONT PARK LIVING SEAWALL | BAYFRONT PARK, TOWN OF LONGBOAT KEY, FL | SBEP/ CUMMINS CEDERBERG | PROJECT DURATION: 2025 | PROJECT ENGINEER** | In collaboration with the Sarasota Bay Estuary Program (SBEP) and Cummins Cederberg, Kind Designs is producing 350 custom 3D-printed mangrove living seawall tiles to retrofit 300 linear feet of existing vinyl seawall at Bayfront Park. The tiles replicate red mangrove root structures to enhance marine habitat, improve water quality, and support recruitment of oysters, barnacles, and other marine organisms. The project was designed in late 2024, acquired permits, and is currently moving through manufacturing.

**PINE TREE DRIVE LIVING SEAWALL | MIAMI BEACH, FL | DOCK & MARINE/ OCEAN CONSULTING | PROJECT DURATION: 2024 | PROJECT ENGINEER** | Replacement of a failing concrete seawall with a 120-linear-foot Living Seawall system, supported by king and batter piles. The residential property owner selected Kind Designs’ Living Seawall solution to restore marine ecosystems while meeting structural requirements. This project exemplifies the integration of ecological function with residential shoreline protection.



# APPROACH TO SCOPE OF WORK



# APPROACH TO SCOPE OF WORK

## CITY'S NEEDS, GOALS, AND OBJECTIVES



The City's Vision, Strategic Plan, and the City Commission Annual Action Plan have made it abundantly clear that the City of Fort Lauderdale has seen the future it envisions: safe, multi-modal, sustaining, committed to conservation, fellow neighbors collaborating to shape our future. The

BCC Team is eager to assist the City in achieving the **"Fast Forward Fort Lauderdale 2035"** vision as the City's population increases a projected 25 percent by the year 2035.

The BCC Team recognizes that the City's vision and population change presents an array of structural challenges in the coming years – challenges that involve urgent needs as well as long term forethought and wisdom for a wide range of structures and structural projects with added emphasis on mobility, resilience, and safety. For example, the SE 7th Street Bridge Replacement incorporates wider sidewalks. Recent structural concerns at the police headquarters further highlight the need for regular structural assessments to proactively identify and rectify potential issues.

Also, incorporation of the latest standards and updated building codes will enhance structural resilience against environmental stresses. The BCC Team also recognizes that opportunities for new structure projects have decreased, rather, a smarter use of existing structures prevails, such as improving resiliency, achieving appropriate "Level of Service," and maximizing remaining design life moving forward.

## OVERVIEW OF PROPOSED VISION, IDEAS, METHODOLOGY

The importance of the role that structures serve in the City's vision cannot be overstated. Structures are linked to every aspect of a community, and therefore must address the issue of safety, longevity, and logic first before other improvements and measures to optimize quality of life can follow. In this way, with every task assigned by the City, the Team will keep uppermost the goal of putting people first, both in the immediate and the long term.

With this in mind, we categorized our overall vision for this contract into 4 main points:

- ✓ **Integrate Climate Resilience:** Design infrastructure that anticipates and withstands climate impacts.
- ✓ **Promote Sustainability:** Utilize eco-friendly materials and construction practices.
- ✓ **Enhance Multimodal Connectivity:** Develop infrastructure that supports various transportation modes, reducing reliance on personal vehicles.
- ✓ **Ensure Structural Integrity:** Implement rigorous design and assessment protocols to maintain safety and functionality.

## APPROACH TO ACCOMPLISHING THE PROJECT

This is a Task Work Order (by assignment) based contract. Each assignment has its own contract language with scope of services, staff-hour estimate, budget, and fee. The scope for each is identified/defined by the City Project Manager and then confirmed by the BCC Team. It is important to understand that "Structures TWO's" are rarely purely "structures" – they engage other disciplines. Multiplied by concurrent TWO's, it is important for the BCC Team to be efficient, immediately become cohesive and proactive, and communicate to see tasks through to completion.

A strong Project Manager is needed to successfully deliver a successful Continuing Services Structures contract such as this. The Project Manager must also grasp two key fundamentals:

1. In terms of overall Project Weight, Structures, by their nature, are often the low man on the "Project Totem Pole." By that, we mean Structures is a Supporting Discipline, influenced by larger factors and forces, yet at the same time a key discipline at the foundation of the project's success. Therefore, the Structures PM needs to have a firm grip on the totality of the project and take full initiative and over-communicate about driving factors. At the same time, for a project such as a bridge rehabilitation, Structures is the lead discipline and must lead the project accordingly
2. Working "with" rather than "for" the City on a TWO-based contract involves operating completely different than a typical project.

The following demonstrates how the BCC Team Project Manager hand-picked for this contract actively practices these fundamentals, and more, on a daily basis.

## PARTNERING



BCC's PM, **Joan De La Rosa, PE, FRSE**, is the BCC Team's sole point of contact. Joan has designed and managed Continuing Services Structures contracts for over 21 years. It is Joan's philosophy that the City PM should never need to ask Joan the status of any item for the life of the Task/Contract, such as a Scope/Fee Estimate, miscellaneous requests/emails, cost updates, schedule updates, or invoices. As Miami Structures Division Manager, Joan is also empowered to allocate office staff - he will take any step needed to help the City. Municipal projects require an enhanced level of attentiveness. Joan always keeps the City PM in the loop, and "over communicates", such as informing the City PM of key schedule milestones and drivers and any Structures needs. The following are additional specific, concrete examples of how Joan and the BCC Team will deliver this important contract.

## STRUCTURES

This contract will include a wide range of structural assignments. The following summarizes our approach to the 3 Task areas expected to be predominantly used by this contract:

1. Structural Design Support
2. Support Construction
3. Bridges and Structures.

### 1 Structural Design Support:

The City of Fort Lauderdale list of Capital Projects is subject to change depending on funding as well as accelerated bridge deterioration shifting priorities. So, the initial focus is prioritizing jobs – i.e. evaluating justification for improvements, performing Cost/Benefit Analysis for bridge repairs/replacements, and establishing a Plan moving forward. The Plan may include interim repairs, such as aimed at providing the minimum required improvements due to a bridge being slated for replacement within a few years time. Just because the scope or repair work may be reduced does not mean in "in-depth" review of the scope and issues in not in order – we find it is the opposite, smaller tasks often require a more "in-depth" review than larger tasks, since any change at all

has a relatively larger impact percentagewise on the overall scope. Tasks may also be urgent, such as politically driven or resulting from a vehicular accident. Tasks may also involve planning support. This type of support requires shifting gears from production to structures engineering legwork, as tasks involve detailed desktop evaluations, field reviews, analysis, and sound judgment and documentation. It is important at this stage to consider matters of R/W. For the Palm Beach US-1 Feasibility Study we confirmed the viability of shifting a bridge railing to widen the bridge sidewalk, improve safety conditions for pedestrians and bicyclists, and avoid R/W acquisition. In addition we recently helped navigate FDOT D4 Structures through matters such as Florida Gas Transmission lines for the widening of SR 714 over Florida's Turnpike. For the Broad Causeway Bridge Repair, we also helped the Town of Bay Harbor Islands with grant applications for project funding.

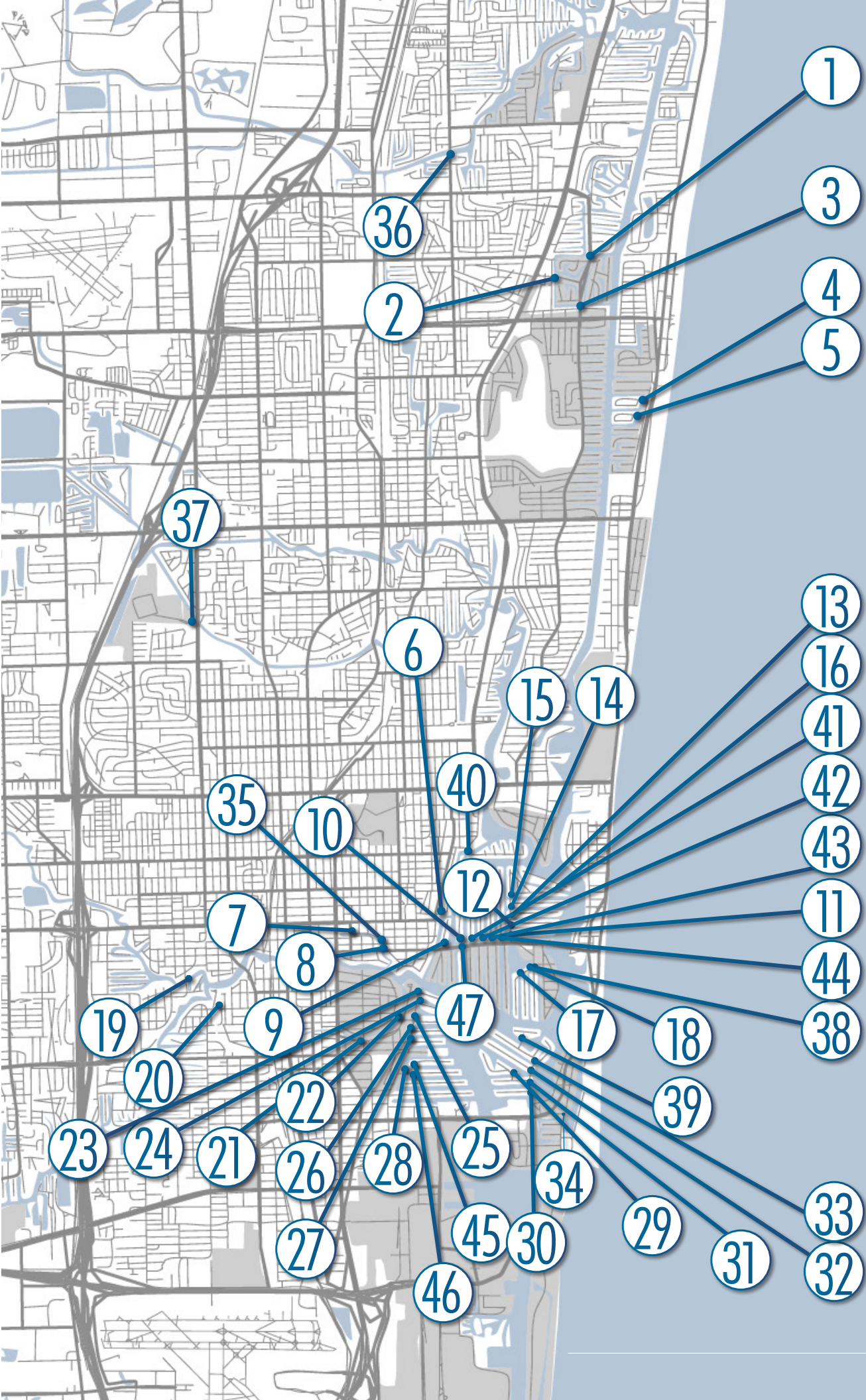
### 2 Support Construction:

The importance of supporting Construction on City projects cannot be overstated. The City does not have Standard Specifications for Construction, which is extremely important because it requires materials, testing, contract terms, etc. As a result, Structures Plans refer the Contractor to the FDOT Standard Specifications for Road and Bridge Construction. On Structures projects, it is important to understand the City's limitations. For example, the FDOT Specifications require testing and inspections that the City is not staffed to perform. We address this by increasing Structures EOR involvement in Post Design, communicating to help the City navigate through the Specifications. We also take the extra steps to assist the Contractor. For example, on our City of Miami Beach Continuing services contract (Repair/ Rehabilitation Bridge No. 876718) we recently provided the Contractor with a list of local plants from which he could acquire the FDOT-approved Class IV 5500 psi concrete mix specified in the Plans for use with pile jackets.

### 3 Bridges and Structures:

A wide range of local experience designing and constructing structures for resiliency is literally where this contract's "Rubber Meets The Road." We have extensive experience with the City's Bridge Inventory. **As a demonstration of that... we have already started work!** We have field reviewed the City's SD bridges and summarized several issues and solutions. *The following pages summarize the City's bridge inventory and observations from our field reviews.*

# CITY OF FT. LAUDERDALE BRIDGE INVENTORY MAP



NO.	BRIDGE NO.	FACILITY CARRIED	FEATURE/FACILITY CROSSED
1	865708	Bayview Dr.	Longboat Inlet
2	865709	NE 55th St.	Landings Inlet West
3	865710	Bayview Dr.	Landings Inlet South
4	865712	NE 41st St.	Toulon Waterway
5	865713	Fort Royal Isle	Toulon Waterway
6	865727	NE 1st St.	Stranahan Lake
7	865728	SE 8th Ave.	Himmarshee Canal
8	865729	East Las Olas Blvd	Himmarshee Canal
9	865731	South Gordon Rd.	Las Olas Canal
10	865733	Hendricks Isle Dr.	Las Olas Canal
11	865738	SE 23rd Ave.	Rio Del Mar
12	865739	SE 23rd Ave.	Rio Castilla Canal
13	865740	NE 23rd Ave.	Rio Aragon Canal
14	865741	NE 23rd Ave.	Rio Toledo Canal
15	865742	NE 23 Ave.	Rio Giraldo Canal
16	865743	NE 26th Terr.	Rio De Sota
17	865745	Solar Plaza Dr.	Rio Canal
18	865746	Solar Plaza Dr.	Rio Placid Canal
19	865748	SW 11 Ave.	N Fork New River
20	865752	SW 7th St.	Tarpon River
21	865758	SE 9th Ave.	Tarpon River
22	865759	SE 9th St.	Tarpon River
23	865760	SE 7th St.	Rio Cordova

NO.	BRIDGE NO.	FACILITY CARRIED	FEATURE/FACILITY CROSSED
24	865761	SE 8th St.	Rio Cordova
25	865762	SE 9th St.	Rio Cordova
26	865763	SE 10th St.	Rio Cordova
27	865764	SE 11th St.	Rio Cordova
28	865765**	SE 13th St.	Cerro Gordo River
29	865770	Laguna Terr.	Diane River
30	865771	West Lake Dr.	Estelle River
31	865772	West Lake Dr.	Diane River
32	865773	West Lake Dr.	Lucille River
33	865774	West Lake Dr.	Mercedes River
34	865775	South Ocean Dr.	Marion River
35	865776	SE 2nd Ct.	Himmarshee Canal
36	865777	NE 18th Ave.	Cypress Creek Canal C-14
37	865781	Access Rd.	Mills Pond Canal
38	865782	SE 25th Ave.	Rio Idlewild Canal
39	865783	Harborage Isle Dr.	New River Sound
40	865784	Sunrise Key Blvd.	Karen Canal
41	865785	Isle of Venice Dr.	Las Olas Canal
42	865786	Fiesta Way	Las Olas Canal
43	865787	Nurmi Dr.	Las Olas Canal
44	865788	Royal Palm Dr.	Las Olas Canal
45	865789	SE 15th Ave	Marcheta River
46	865790	SE 15th Ave.	Carlotta River
47	865792	Coconut Isle Dr.	Grand Canal

## BRIDGE INVENTORY KEY FEATURES

GENERAL	Total No. of Bridges:	47
	Total Bridge Deck Area (SF):	153506
	Number of Water Crossings:	47

BRIDGE LENGTH	Bridges Less Than 100' Long:	32
	Bridges Less Than 50' Long:	10
	Longest Bridge (Ft): (Bridge 27, SE 13 <sup>th</sup> St. Over Cerro Gordo River)	180

BRIDGE AGE	Bridges Over 50 Years Old:	35
	Bridges Over 60 Years Old:	19
	Bridges Approaching/Over 70 Years Old:	14
	Bridges Over 90 Years Old: (Bridge 19, SW 11 <sup>th</sup> Ave. Swing Span is 100 Years Old!)	4

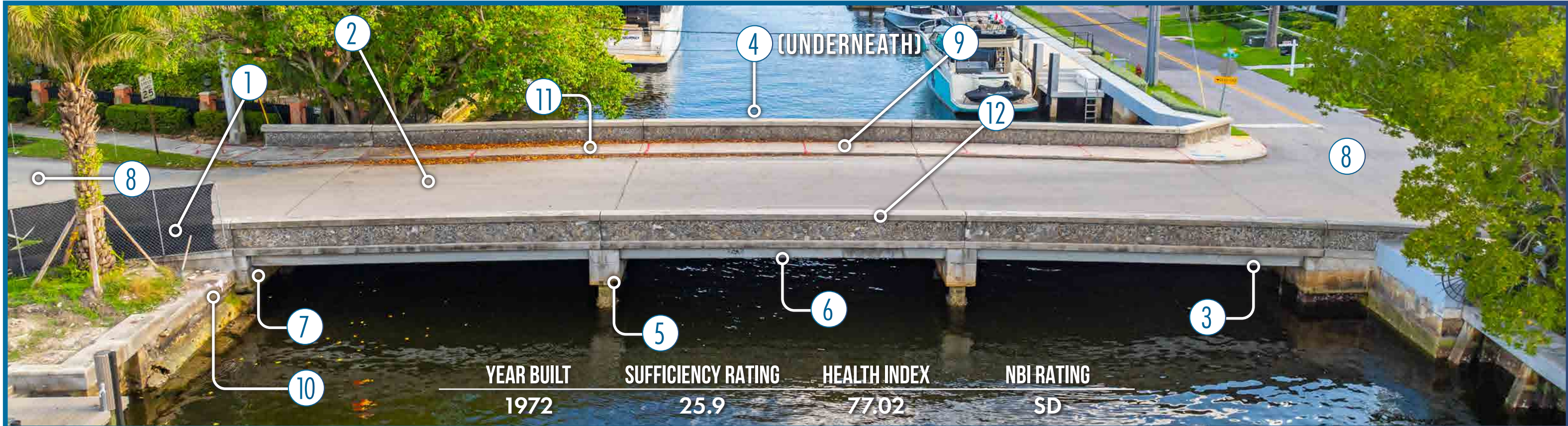
BRIDGE TYPE	Number of 2 or 3 Span Bridges:	33
	Number of Concrete Bridges:	44
	Number of Slab Unit Bridges:	30
	Number of Tee Beam Bridges:	10
	Number of Steel Bridges:	3
	Number of Arch Deck Bridges:	1

# BRIDGE INVENTORY KEY FEATURES

BRIDGE ID	BRIDGE NO.	FACILITY CARRIED	FEATURE/FACILITY CROSSED	MATERIAL	TYPE	NO. OF SPANS	BRIDGE LENGTH (FT)	DECK AREA (SF)	YEAR BUILT	AGE (YEARS)	ADT	LAST INSPECTION	BRIDGE CONDITION	SUFFICIENCY RATING	HEALTH INDEX	NBI RATING	POSTED? Y/N
1	865708**	Bayview Dr.	Longboat Inlet	Concrete	Slab	1	20	600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N
2	865709	Ne 55th St.	Landings Inlet West	Concrete	Slab	3	58.7	2350.6	1962	63	4,992	9/7/2023	Fair	63.6	78.47	-	Y/20T
3	865710	Bayview Dr.	Landings Inlet South	Concrete	Slab	3	58.4	2318.3	1962	63	8,800	9/7/2023	Fair	64.7	60.27	FO	Y/22T
4	865712	NE 41st St.	Toulon Waterway	Concrete	Tee Beam	2	40.4	1072.4	1956	69	520	9/12/2023	Fair	53	51.09	FO	Y/20T
5	865713	Fort Royal Isle	Toulon Waterway	Concrete	Tee Beam	2	40.4	1032.7	1956	69	520	9/12/2023	Fair	66.5	71.77	FO	Y/20T
6	865727**	Ne 1st St.	Stranahan Lake	Steel Continuous	Stringer/Multi-beam or Girder	2	44	1312.5	1940	85	832	9/13/2023	Poor	9.2	94.54	SD	Y/16,23,30T
7	865728	Se 8th Ave.	Himmarsee Canal	Concrete	Tee Beam	3	44.3	2208.8	1953	72	4,992	9/27/2023	Fair	76	53.74	-	N
8	865729	East Las Olas Blvd	Himmarsee Canal	Concrete	Arch - Deck	3	99.1	5948.8	1930	95	20,405	9/14/2023	Fair	70.7	71.67	FO	N
9	865731	South Gordon Rd.	Las Olas Canal	Prestressed Concrete	Slab	3	85	3066.6	1970	55	2,494	9/25/2023	Fair	52.9	92.82	-	N
10	865733	Hendricks Isle Dr.	Las Olas Canal	Prestressed Concrete	Slab	3	85.3	3078.5	1962	63	5,200	9/25/2023	Fair	43.9	90.87	FO	N
11	865738	Se 23rd Ave.	Rio Del Mar	Prestressed Concrete	Slab	3	99.1	3575.8	1966	59	2,400	9/25/2023	Fair	46	91.31	FO	N
12	865739	Se 23rd Ave.	Rio Castilla Canal	Prestressed Concrete	Slab	3	99.1	3575.8	1966	59	2,400	9/25/2023	Fair	47	91.86	FO	N
13	865740	Ne 23rd Ave.	Rio Aragon Canal	Prestressed Concrete	Slab	3	98.1	3540.2	1968	57	2,400	9/25/2023	Good	75	91.22	-	N
14	865741	Ne 23rd Ave.	Rio Toledo Canal	Prestressed Concrete	Slab	3	98.1	3540.2	1969	56	2,400	9/18/2023	Fair	63	94.75	-	N
15	865742	Ne 23 Ave.	Rio Giraldo Canal	Prestressed Concrete	Slab	3	97.8	3528.4	1968	57	2,400	9/18/2023	Fair	53.8	92.80	-	N
16	865743	Ne 26th Terr.	Rio De Sota	Prestressed Concrete	Slab	3	98.1	3540.2	1969	56	4,617	9/18/2023	Fair	63	86.75	-	N
17	865745	Solar Plaza Dr.	Rio Canal	Prestressed Concrete	Slab	2	56.8	1824.9	1971	54	250	10/3/2023	Fair	80.5	99.49	-	N
18	865746	Solar Plaza Dr.	Rio Placid Canal	Prestressed Concrete	Slab	2	44.3	1438.6	1971	54	1,440	9/25/2023	Fair	59	94.08	-	N
19	865748	SW 11 Ave.	N Fork New River	Steel	Movable - Swing	1	144.7	2753.2	1925	100	6,618	10/18/2023	Fair	32.1	93.48	FO	N
20	865752	SW 7th St.	Tarpon River	Steel	Stringer/Multi-beam or Girder	1	40	1260.7	1929	96	2,500	10/17/2023	Fair	77.4	99.83	FO	Y/33T
21	865758	SE 9th Ave.	Tarpon River	Prestressed Concrete	Slab	1	44.6	1610.3	1971	54	11,680	9/14/2023	Good	48.6	92.15	FO	Y/30T
22	865759	SE 9th St.	Tarpon River	Prestressed Concrete	Slab	3	98.1	3540.2	1970	55	1,440	9/14/2023	Good	95.8	95.89	-	Y/30T
23	865760	SE 7th St.	Rio Cordova	Prestressed Concrete	Slab	3	92.8	3350.8	1972	53	800	9/19/2023	Poor	25.9	77.02	SD	N
24	865761	SE 8th St.	Rio Cordova	Prestressed Concrete	Slab	3	88.9	3208.7	1972	53	800	9/20/2023	Fair	56.1	95.47	-	N
25	865762	SE 9th St.	Rio Cordova	Prestressed Concrete	Slab	3	90.9	3279.8	1972	53	800	9/20/2023	Fair	46	83.85	-	N
26	865763	SE 10th St.	Rio Cordova	Prestressed Concrete	Slab	3	97.1	3504.7	1972	53	800	9/26/2023	Fair	34.7	86.20	-	Y/30T
27	865764	SE 11th St.	Rio Cordova	Prestressed Concrete	Slab	3	94.2	3398.2	1972	53	800	9/20/2023	Fair	43	94.51	-	N
28	865765**	SE 13th St.	Cerro Gordo River	Concrete	Tee Beam	9	180.4	4617.7	1952	73	1,440	9/19/2023	Fair	22.2	52.10	FO	Y/16,23,30T
29	865770	Laguna Terr.	Diane River	Concrete	Tee Beam	5	100.4	2964.4	1958	67	2,690	9/27/2023	Fair	41.6	56.55	FO	Y/25, 34T
30	865771	West Lake Dr.	Estelle River	Concrete	Tee Beam	5	100.4	3030.3	1956	69	1,600	3/18/2024	Poor	9.3	60.00	SD	Y/10T
31	865772	West Lake Dr.	Diane River	Concrete	Tee Beam	5	100.4	2964.4	1956	69	2,690	10/9/2023	Poor	15.3	49.20	SD	Y/8, 12, 16T
32	865773	West Lake Dr.	Lucille River	Concrete	Tee Beam	8	164	4951.4	1956	69	2,690	3/14/2024	Poor	3.3	47.33	SD	Y/16, 19, 26T
33	865774	West Lake Dr.	Mercedes River	Concrete	Tee Beam	6	120.1	3545.6	1956	69	2,690	3/18/2024	Poor	3.3	46.59	SD	Y/16,23,30T
34	865775	South Ocean Dr.	Marion River	Concrete	Tee Beam	4	80.1	3309.3	1952	73	9,613	9/14/2023	Poor	48.2	29.40	SD*	N
35	865776	SE 2nd Ct.	Himmarsee Canal	Prestressed Concrete	Slab	3	55.1	2025.3	1975	50	1,440	10/17/2023	Good	79.7	92.93	-	N
36	865777	NE 18th Ave.	Cypress Creek Canal C-14	Prestressed Concrete	Slab	5	188	13507.3	1959	66	23,002	10/19/2023	Fair	82	95.49	-	Y/30T
37	865781	Access Rd.	Mills Pond Canal	Prestressed Concrete	Slab	5	161.4	6619.8	1987	38	500	10/17/2023	Fair	87.3	98.49	-	N
38	865782	SE 25th Ave.	Rio Idlewild Canal	Prestressed Concrete	Slab	2	35.4	1116	1993	32	418	10/12/2023	Fair	66	95.70	FO	N
39	865783	Harborage Isle Dr.	New River Sound	Prestressed Concrete	Slab	3	94.2	2965.7	2012	13	520	11/22/2022	Good	71.1	99.36	-	N
40	865784	Sunrise Key Blvd.	Karen Canal	Prestressed Concrete	Slab	3	82	3094.6	2016	9	660	7/7/2022	Good	79.7	98.35	-	N
41	865785	Isle of Venice Dr.	Las Olas Canal	Prestressed Concrete	Slab	3	102.4	3862.1	2016	9	660	7/7/2022	Good	73.6	98.84	-	N
42	865786	Fiesta Way	Las Olas Canal	Prestressed Concrete	Slab	3	102.4	3862.1	2016	9	690	7/21/2022	Good	73.3	98.23	-	N
43	865787	Nurmi Dr.	Las Olas Canal	Prestressed Concrete	Slab	3	102.4	3862.1	2016	9	660	7/21/2022	Good	86	97.72	-	N
44	865788	Royal Palm Dr.	Las Olas Canal	Prestressed Concrete	Slab	3	102.4	3862.1	2016	9	700	7/7/2022	Good	73.2	97.74	-	N
45	865789	SE 15th Ave	Marcheta River	Prestressed Concrete	Slab	3	137.8	4294.8	2013	12	300	6/29/2023	Good	75.7	99.77	-	N
46	865790	SE 15th Ave.	Carlotta River	Prestressed Concrete	Slab	3	136.2	4243.7	2013	12	200	6/29/2023	Good	81.4	99.01	-	N
47	865792	Coconut Isle Dr.	Grand Canal	Prestressed Concrete	Slab	1	35.1	1347.5	2021	4	350	3/22/2023	Good	88.2	98.92	-	N







\*BCC Engineering replaced this bridge, construction complete in 2025 | \*\*To be replaced under City of Fort Lauderdale RFQ/Event #423

# BRIDGE NO. 865760 | SE 7<sup>TH</sup> STREET OVER RIO CORDOVA









## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

1		Substandard bridge traffic railing and end treatment.	Provide flared railing treatments to avoid blunt railing ends.
2		Longitudinal reflective asphalt cracking.	Slab unit differential deflection. Remove asphalt and grout slab keyways with Ultra High Performance Concrete to restore group action. Resurface riding surface.
3		Spalls on slab unit undersides close to bearing areas.	Restore lost section, restore flexural capacity using Carbon Fiber Reinforced Polymer.
4		Bridge mounted utilities.	Protect, utilize in-place repairs that maintain service at all times.
5		Bent cap spall with exposed rebar.	Spall repair.
6		Low level bridge in close proximity to chlorides.	Utilize Cathodic Protection to maximize repair longevity and service life.

## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

7		Bent cap staining and oxidation bleed-through.	Spall repair.
8		Bridge is in close proximity to properties, driveways, and intersection.	Provide Maintenance of Traffic to ensure safety and maintain traffic flow and access. Maintain existing drainage patterns during construction.
9		Raised sidewalks.	Ensure ADA compliance. Provide pedestrian Maintenance of Traffic to ensure safety.
10		Bent cap and seawall spalls and delaminations.	In-place spall repair to ensure seawall/bent continuity.
11		Sidewalk cracking.	Epoxy crack injection per FDOT Standard Specifications.
12		Delaminations in decorative railing.	Spall repair and maintain bridge aesthetics and sense of place.

# BRIDGE NO. 865774 | WEST LAKE DRIVE MERCEDES RIVER



## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

1	Substandard bridge traffic railing and end treatment.	Provide flared railing treatments to avoid blunt railing ends.
2	Bridge mounted utilities.	Protect, utilize in-place repairs that maintain service at all times.
3	Low level bridge in close proximity to chlorides.	Utilize Cathodic Protection to maximize repair longevity and service life.
4	Pedestrians use roadway area for walking.	Provide pedestrian Maintenance of Traffic to ensure safety.
5	Overhead utilities.	Protect, maintain service at all times.
6	Bent caps connect to adjacent seawalls.	In-place spall repair to ensure seawall/bent continuity.

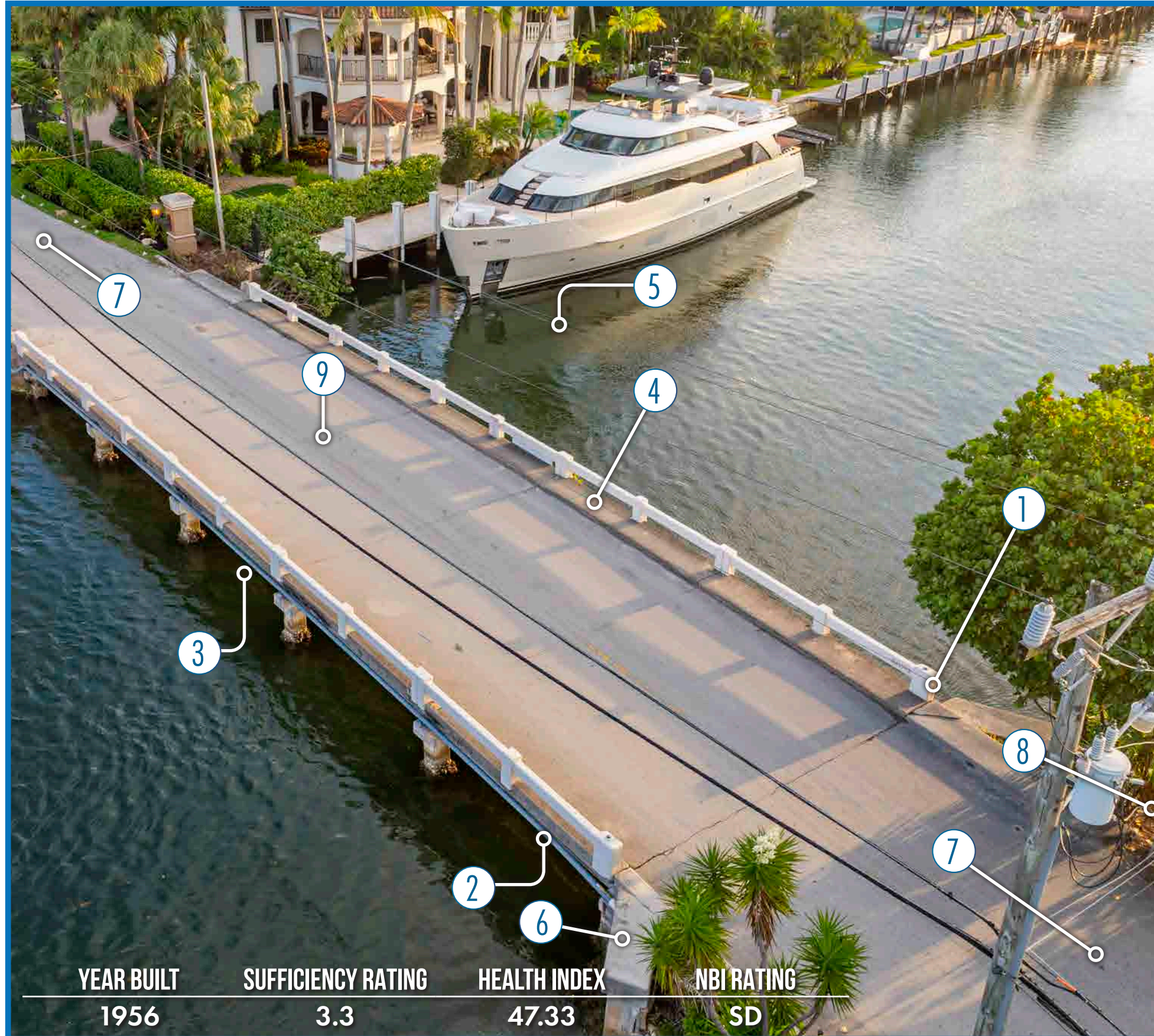
## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

7	Bridge is in close proximity to properties and driveways.	Provide Maintenance of Traffic to ensure safety and maintain traffic flow and access. Maintain existing drainage patterns during construction.
8	Bridge Posting.	Review existing load rating. Incorporate repairs that enable posting avoidance measures and update load rating.
9	Bridge joint asphalt cracking.	Evaluate use of polymer joint nosings and joint seal replacement as a preventative maintenance measure.

# BRIDGE NO. 865773 | WEST LAKE DRIVE OVER LUCILLE RIVER

## BCC TEAM PROPOSED SOLUTIONS



**YEAR BUILT**  
1956

**SUFFICIENCY RATING**  
3.3

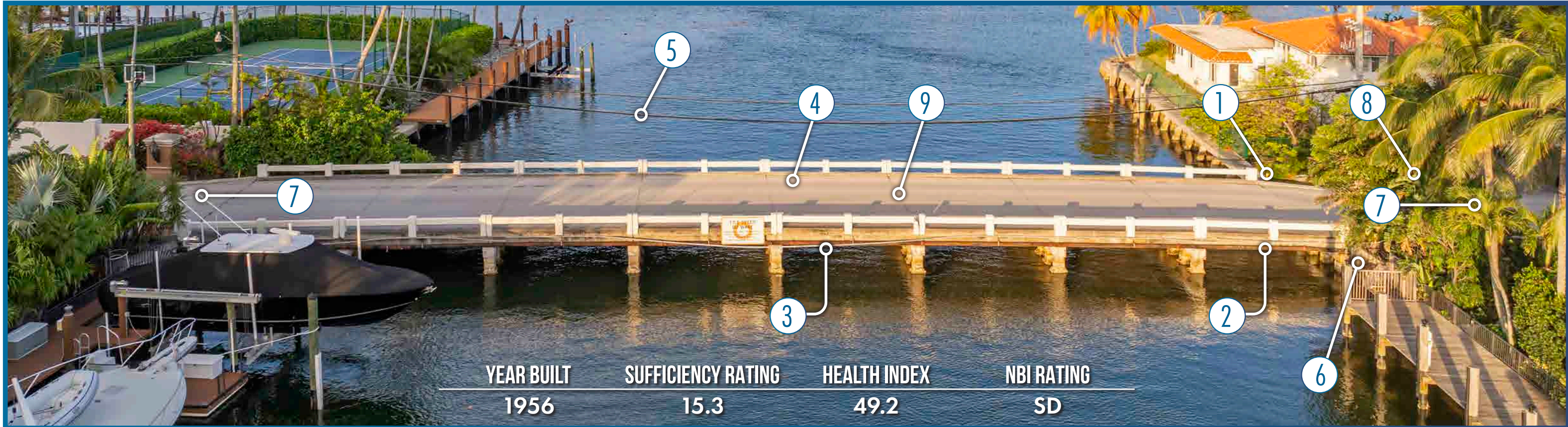
**HEALTH INDEX**  
47.33

**NBI RATING**  
SD

## POTENTIAL ISSUES







	POTENTIAL ISSUES	BCC TEAM PROPOSED SOLUTIONS
1	Substandard bridge traffic railing and end treatment.	Provide flared railing treatments to avoid blunt railing ends.
2	Bridge mounted utilities.	Protect, utilize in-place repairs that maintain service at all times.
3	Low level bridge in close proximity to chlorides.	Utilize Cathodic Protection to maximize repair longevity and service life.
4	Narrow curb/raised sidewalk. Pedestrians use roadway area for walking.	Provide pedestrian Maintenance of Traffic to ensure safety.
5	Overhead utilities.	Protect, maintain service at all times.
6	Bent caps connect to adjacent seawalls.	In-place spall repair to ensure seawall/bent continuity.
7	Bridge is in close proximity to properties, and driveways.	Provide Maintenance of Traffic to ensure safety and maintain traffic flow and access. Maintain existing drainage patterns during construction.
8	Bridge Posting.	Review existing load rating. Incorporate repairs that enable posting avoidance measures and update load rating.
9	Bridge joint asphalt cracking.	Evaluate use of polymer joint nosings and joint seal replacement as a preventative maintenance measure.

# BRIDGE NO. 865772 | WEST LAKE DRIVE OVER DIANE RIVER






## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

1	 Substandard bridge traffic railing and end treatment.	Provide flared railing treatments to avoid blunt railing ends.
2	 Bridge mounted utilities.	Protect, utilize in-place repairs that maintain service at all times.
3	 Low level bridge in close proximity to chlorides.	Utilize Cathodic Protection to maximize repair longevity and service life.
4	 Narrow curb/raised sidewalk. Pedestrians use roadway area for walking.	Provide pedestrian Maintenance of Traffic to ensure safety.
5	 Overhead utilities.	Protect, maintain service at all times.
6	 Bent caps connect to adjacent seawalls.	In-place spall repair to ensure seawall/bent continuity.

## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

7	 Bridge is in close proximity to properties, and driveways.	Provide Maintenance of Traffic to ensure safety and maintain traffic flow and access. Maintain existing drainage patterns during construction.
8	 Bridge Posting.	Review existing load rating. Incorporate repairs that enable posting avoidance measures and update load rating.
9	 Bridge joint asphalt cracking.	Evaluate use of polymer joint nosings and joint seal replacement as a preventative maintenance measure.

# BRIDGE NO. 865771 | WEST LAKE DRIVE OVER ESTELLE RIVER



## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

1		Bridge mounted utilities.	Protect, utilize in-place repairs that maintain service at all times.
2		Bridge coping spall with exposed rebar.	Spall repair.
3		Bent cap spall with exposed rebar.	Spall repair. Utilize Cathodic Protection to maximize repair longevity and service life.
4		Tee-Beam Web spall with exposed rebar.	Spall repair. Restore flexural capacity using Carbon Fiber Reinforced Polymer.
5		Low level bridge in close proximity to chlorides.	Utilize Cathodic Protection to maximize repair longevity and service life.
6		Bent cap and seawall spalls and delaminations.	In-place spall repair to ensure seawall/bent continuity.

## POTENTIAL ISSUES

## BCC TEAM PROPOSED SOLUTIONS

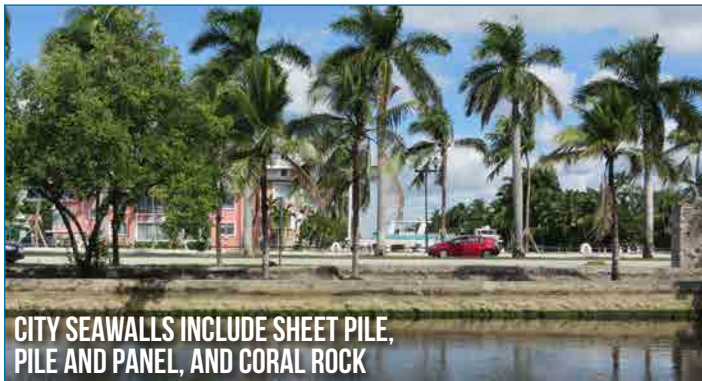
7		Substandard bridge traffic railing and end treatment.	Provide flared railing treatments to avoid blunt railing ends.
8		Bridge is in close proximity to properties and driveways.	Provide Maintenance of Traffic to ensure safety and maintain traffic flow and access.
9		Pile spall with exposed rebar.	Structural Cathodic Protection pile jacket (galvanic cell).
10		Crack in transition from abutment to wingwall/seawall	In-place spall repair to ensure seawall/bent continuity.
11		North abutment king pile crack/deficiency.	Structural Cathodic Protection pile jacket (galvanic cell).
12		Crack in abutment panel.	Patch crack to avoid settlement/loss of fines from impacting roadway riding surface.

# APPROACH TO SCOPE OF WORK

The following is a brief summary of additional knowledge and experience that City would capture by having BCC lead this important contract.

## SEAWALLS

Seawalls and addressing Sea Level Rise (SLR) has been one priority of the City. BCC has vast experience in the area of evaluating, designing, and constructing seawalls for added resiliency. For example, BCC recently prepared the Seawall Master Plan (SMP) for the City of Fort Lauderdale. The goal of this project was to improve resiliency by evaluating and recommending repairs. The SMP involved inspecting, assessing, and prioritizing repairs and replacement for over 4.2 miles of seawall owned by the City.



BCC prioritized work and estimated engineering, permitting, and construction costs and projected a program out 20 years to help the City plan and prioritize seawall repairs. The project also involved assessing over 2 miles of unprotected bank and shoreline. The SMP was then used to support the City's Seawall Ordinance requiring property owners to raise seawalls under certain conditions in order to improve resiliency and accommodate SLR, including the "King Tide" effect. BCC also developed City Standard Plans for the repair and raising of seawalls.

## BUILDING FACILITIES

Vertical Structures services often include threshold inspections, repairs, and assessments. BCC's City of Fort Lauderdale Structures contract included vertical structures services ranging from assessments of City parking garage structures, to roof repairs for City office buildings, to design services for City operations yard storage structures. The services we provide include a variety of assignments such as: design of docks, seawalls, pump stations, existing structural evaluations, repair and rehabilitation of existing structures, and Construction Observations. We recognize there are numerous additional assignments above and beyond those enumerated. Our Team is prepared to deliver the full range of services requested in



## INNOVATIVE MATERIALS / CATHODIC PROTECTION

Conventional concrete repairs (epoxy crack injection, patch repairs, non-CP jackets) do not provide effective corrosion control and are considered a temporary solution, needing repetition every 3-5 years. Further, patch repairs create a "Halo Effect," a difference in electrical potential at the bond line between the new and existing concrete that accelerates corrosion of the existing rebar just beyond the edge of the repair. To provide resiliency, we will use comprehensive inspections/testing and innovative materials. First, our CP investigation will build off of the most recent Bridge Inspection Report. We will give it a "fresh look" and use our own field review to confirm conditions and which CP system may be utilized further to improve resiliency.

Next, we will perform testing to evaluate the structure condition. By sampling for chloride analysis, we will develop service life models to predict the progression of corrosion and determine the optimal rehabilitation strategy required to meet service life within the City's budget. Plans and TSP's will detail the required steps to confirm structure stability and repair longevity. Additional key issues revolve around material availability and application appropriateness. We coordinate with the FDOT State Materials Office in Gainesville re: industry trends and FDOT-preferred Plan Details, as well as Developmental Specs and Technical Special Provisions, and compatibility of materials. BCC recently used CFRP laminate to improve Load Ratings for I-95 3C AASHTO beam bridges. We are also familiar with products such as "Continuous Basalt Fiber (CBF)" rebar, an innovative product out of Pompano Beach that is lighter and stronger than conventional rebar, but never oxidizes and is available at about the same price as conventional rebar.

The BCC Team is experienced in all 3 primary types of CP (impressed current, galvanic cell, zinc metalizing), applications including superstructure, substructure, and foundations (CP structural pile jackets), and is also versed in

# APPROACH TO SCOPE OF WORK

new CP adaptations such as embedded zinc mesh anode, “Halo” effect anodes, and solar powered CP systems.

## LOAD RATINGS

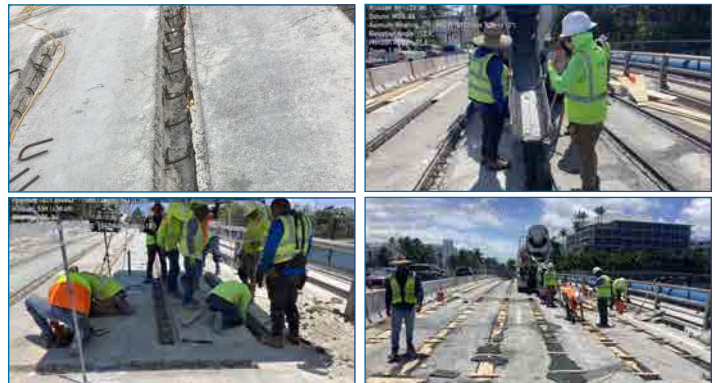
The City may see an increase in Load Rating needs due to an FDOT Central Office-proposed Bridge Load Rating Manual amendment updating ratings aged over 30 years. In the past 10 years, we have load rated **654 bridges**. We keep up to date with the FDOT Bridge Load Rating Manual. We also understand software appropriateness. On a case-by-case basis, differences in the CONSPAN and FDOT Beam programs, such as shear value intervals, typically make one software preferred for the load rating “Quick Check.” The Quick Check is dependent on the complexity of the structure and can vary from a simple hand check to an independent analysis. We also use Design-to-Load Rate when appropriate. EV rarely controls a passing rating.

## PRESTRESSED SLAB UNIT BRIDGES








Prestressed concrete slab units are typically about 3 feet wide, made to function together as a unit by the use of transverse Post Tensioned (PT) bars. The slab units function as the riding surface of the bridge, often with an asphalt overlay. The concrete slab units were constructed by pouring concrete around forms that leave circular voids within the slab unit to lighten it’s weight. This, and inadequate PT, proved to be a design flaw with these types of bridges that have resulted in long term performance and maintenance issues. For example, when constructed with sidewalks and traffic railings on the outside, the fascia slab unit tends to undergo rotation. Additionally, over time, inadequate PT becomes ineffective, allowing the slab units to undergo differential deflection, resulting in longitudinal cracking of the asphalt overlay. This condition of differential slab deflection is significant in that, without the benefit of group action, individual slab units are subject to more live load, which lowers the Load Rating and in some cases results in Posting the bridge. Group action can be restored by replacing the existing PT bars.

However, the length of coring required and access to the ends of the PT bars when, for example, multiple utilities are present, creates constructability issues. Group action can also be restored using a structural concrete overlay. However, a structural concrete overlay raises the bridge profile, and impacts existing drainage features as well as driveways and cross streets in close proximity to the bridge touch down points. A structural concrete overlay also requires long-duration Maintenance of Traffic configurations, which may not be preferred in urban settings or locations with limited

alternative routes where more of an “unobtrusive” solution is required. One innovative way to restore group action while minimizing impacts and disruption is the use of Ultra High Performance Concrete to restore group action. This is the repair BCC recently competed at the Indian Creek Bridge (Bridge No. 875103). **Details and photographs from that project are below.** This system is also compatible with other repairs common to prestressed slab bridges, such as the replacement of bridge joints (either in-kind or with polymer nosings).



Additionally, the prestressed strands within the slab units are often located within 1.5 inches of the bottom of the slab, which results in inadequate concrete cover and accelerated deterioration such as cracking, spalls, and delaminations. In more severe cases, these bridges are susceptible to failure in shear. FDOT has recognized the widespread issues and on 8/5/19 issued a Memo (Jeffrey Pouliotte) which lowered the NBI Rating for prestressed slab bridges. This added to the amount of Structurally Deficient (SD) bridges throughout the state – including the City’s inventory. The NBI Rating also influenced the Bridge Load Ratings. **The important changes are if an NBI Rating of 4 (POOR) is required if:**

-  6% to 15% of the prestressing strands are exposed in any of the slab units between 0.3 and 0.7 of the length of the slab.
-  Spalls/Delamination 15% to 25% of area of any one slab unit.
-  Hairline transverse flexure cracks with minor efflorescence or minor rust staining.
-  Heavy efflorescence at the location of the transverse PT bars and/or minor rust staining between the slab units.
-  Loose or heavily rusted transverse PT bars.
-  Initiation of vertical or diagonal cracks in fascia of exterior slab units near open joints in the barrier/railing (< 3”length).
-  Fascia slab units have rotated and corrective action has not been performed.

This effectively reduces the Sufficiency Rating of prestressed slab bridges by 25%, indicating that the structure has cracks, damage, other problems that if not monitored or fixed, can lead to failure SD Ratings come from “General Condition Ratings” that are part of the NBIS. Prestressed slab bridges, in particular, undergo larger reductions in the NBI Ratings because the slab units function as both the 1) Deck (i.e. riding surface) and 2) Superstructure. ***As a result, later in this section we have identified the City’s SD bridges and evaluated key issues and solutions at each location.***

## MAINTENANCE OF TRAFFIC (MOT)

Our Roadway Engineers are experienced in the MOT aspects unique to Bridge Rehabilitation projects. For example, critical facilities that have limited alternative routes, or urban locations with noise ordinances or seasonal flux may create very narrow windows of time within which the Contractor may work. We account for increased costs resulting from repeated removal and resetting of TTC devices. Similarly, treatments such as deck sealing can extend quantities beyond “bridge proper,” such as Temporary Traffic Control Plans (TTCP) and temporary/permanent pavement markings. Phased bridge joint replacements and limited staging are also key TTCP considerations. As are logistical aspects - some water crossings with substructure repairs may require TTCP for concrete delivery from the bridge superstructure. Maintaining pedestrian traffic often requires evaluating sidewalks extending away from the bridge, such as ensuring safe routes to school. Our Traffic Control focus is safety and minimizing impacts to the public by balancing night work with local factors such as noise restrictions - particularly in high traffic/urban areas or rural/coastal locations with limited alternate routes. We mitigate all this by engaging our Roadway Engineers early. They know what is involved and how to affirm safety for all users.

## COASTAL ENGINEERING

The three primary components of Coastal Engineering involve Structural, Coastal Hydraulics, and Geotechnical aspects.

### 1 Structural:

South Florida coastal locations involve specific failure mechanisms unique to the area. For example, scour effects can increase the unsupported height of foundations beyond the height for which they were originally designed. Additionally, the corrosive effect of chlorides accelerates deterioration, particularly in the “splash zone” which typically

is subject to the largest bending moment effect. As a result, the focus of analyzing the structural aspect is to consider anticipated hydraulic loading (scour, wave effects, surge/overtopping) and confirm structural integrity and resiliency in the long term. BCC has held continuing service 5-year FDOT Structure Maintenance/Rehabilitation contracts for over a decade.

BCC currently holds FDOT Structures Maintenance/Rehabilitation contracts in Districts 1, 3, and 6 and has held the FDOT District 6 Bridge Rehabilitation Plans Preparation contract for two consecutive 5-year cycles. In that regard our coastal engineering experience has ranged from the Panhandle to Tampa Bay down through the Keys. Most Recently, BCC was engaged immediately following the landfall of Hurricane Ian in Fort Myers. Through BCC’s D1 DW Structures contract, BCC supported the reconstruction of the Sanibel Causeway which involved thousands of feet of seawall on both sides of the roadway. For that assignment, BCC functioned as “Owner’s Representative,” providing oversight and Plans Review services to reinforce structural integrity and FDOT compliance.



Examples of recommendations we have provided have included performing GPR to confirm existing seawall embedment, structural analysis to determine tolerable embedment and section loss, spall and crack repairs, raising seawall heights to account for SLR, use of innovative methods such as Carbon Fiber Reinforced Polymer and Cathodic Protection, selecting new seawall type/material (i.e. concrete, steel sheeting, pile/panel, sheet pile) optimal for the location, and the design of both cantilever and tie-back seawalls to provide the required level of resiliency.

### 2 Coastal Hydraulics:

The focus is to model the region in order to accurately predict scour, wave effects, and surge, and work with the structural engineers to identify the failure mechanisms of the original

seawalls, develop the design of new seawalls or repairs, and design any protection required at the seawall toe, above the seawall, or at bridge abutments or other seawalls that may flank the ends of City owned seawalls and bridges. INTERA's seawall work has encompassed much of the State of Florida (including the City's Seawall Master Plan), with the majority of the work supporting the protection of transportation infrastructure. Recently on the east coast, INTERA was part of a multidisciplinary and interagency strike force to identify vulnerable sections of Volusia and Flagler County roadway, develop alternatives to address the erosion long-term, and solicit public opinion on the project. Recommendations included a secant wall along two sections of the roadway combined with dune restoration and beach nourishment.

INTERA recently worked with the design build Team for the seawall sections supporting the design through calculation of dune erosion and toe scour as well as assisting with the permit application process. Another project performed for Florida Department of Transportation District 7 involved evaluation of more than two miles of seawall along the south side of the Howard Frankland Bridge causeway in Tampa, FL. Following the heightened concern of wave induced damage to seawalls associated with the Hurricane Ian landfall, District 7 requested evaluation of the seawalls exposed to waves within Tampa Bay to the south of I-275. INTERA personnel performed a site investigation of the seawall and recommended performing GPR to determine the embedment depths of the sheet pile (as no as-built information was located). Additionally, INTERA designed toe protection for the walls as well as a splash apron to prevent loss of fill material above the walls in the un-asphalted areas.



We also evaluate the opportunity to utilize innovative, environmentally friendly solutions such as "Living Shorelines" to stabilize slopes and structures.

### 3 Geotechnical:

Our approach will include providing support for the Structural Engineer (soil properties for the seawall analysis) and the

Coastal Hydraulics Engineer (soil/grain size/composition information for use in the scour analysis). We will first review all existing soils and foundations, information including existing foundation plans, as well as printed literature including USDA Soil Survey, USGS Quadrangle maps and any existing geotechnical information. We will then supplement this data with additional explorations and laboratory testing programs, which will be used for performing geotechnical engineering analysis to provide recommendations for the seawall structures. One of HRES's areas of specialization is geotechnical support services for South Florida County and Municipal projects in Miami-Dade County. They are very familiar with the specific soil, rock, groundwater conditions in South Florida providing recommendations on the most cost-effective foundation options for new and rehabilitated structures, including seawalls. Additionally, HRES's construction services group has also provided support during construction by providing sheet pile, and prestressed concrete piles monitoring services, and certified field-testing technicians to test items like the soil density, concrete strength, and steel welding quality. Field reports are prepared for the construction manager, describing the field and laboratory test results.

In this way, the BCC Team provides a comprehensive approach to Coastal Engineering for this project.

## GEOTECHNICAL ENGINEERING

Our approach will include project initiation, existing data collection, field reconnaissance, field exploration, laboratory testing and report writing. Prior to beginning each phase of the exploration, we will submit a detailed boring location plan for review and meet with the City Project Manager to review the project scope and requirements. The geotechnical services will include a review of all existing soils and foundations, information including existing foundation plans, as well as printed literature including USDA Soil Survey, USGS Quadrangle maps and any existing geotechnical information. We will supplement this data with additional explorations and laboratory testing programs, which will be used for performing geotechnical engineering analysis to provide recommendations for design of seawall structures.

These projects are expected to involve coordination with an approval of boring locations by utility companies prior to beginning the field work. Utility coordination will be done by an engineering technician. Drilling access permits and property clearances, if applicable, may be required for performing the geotechnical borings. The boring program will

# APPROACH TO SCOPE OF WORK

be discussed with and approved by the project manager prior to beginning the field work and determine the appropriate course of action. When required, HRES performs field explorations with strict adherence to the Maintenance of Traffic (MOT), rules, regulations, and standard practices.

Based on the field data collected and the laboratory test results, an engineering report will be prepared which summarizes the field and laboratory data generated and subsurface soil/groundwater conditions encountered. Design recommendations, general construction considerations, and discussion of any special construction considerations will be presented in the report.

## PUBLIC INVOLVEMENT

MRG will serve to support the City with all public involvement aspects of the project. Their first task will be to identify and notify each of the affected stakeholders of the proposed improvements and given the opportunity to provide feedback. Notifications can include a mailed newsletter to the property owners and tenants, emails to elected officials, social media posts, and newspaper or other public advertisements. Their Team has web designers that have experience operating and maintaining project websites. They will develop the project website to keep the public informed on the project, and the website will be listed on notifications to stakeholders.



BCC held a well-attended ribbon-cutting ceremony in the Keys to celebrate the completion of the Old 7 Mile Bridge repair project, joined by stakeholders including local community members and several elected officials.

Our Team has conducted many local South Florida public meetings, workshops and public hearings - including the City of Fort Lauderdale. We can also have small group meetings with stakeholders and be included as part of regular meetings that the stakeholders may already conduct. We have done this on several projects, and it gives the stakeholders the

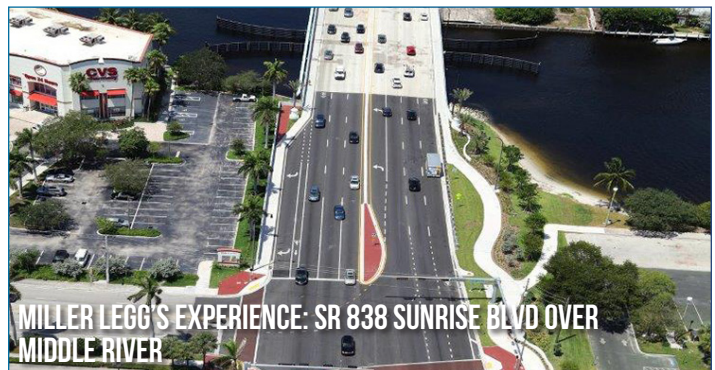
opportunity to ask questions related solely to the project or impacts that are associated with their group, as opposed to being part of a larger public meeting. Our Team will work closely with the City to develop a community outreach and public involvement plan that best suits the needs of each project.

## IN-HOUSE CEI SERVICES

BCC's in-house CEI arm provides vast resources in the construction projects involving replacement and repair of coastal structures. This is not only a value-added feature for construction support, but during the design phase when, as part of the Quality Control Process, the CEI Team provides Constructability Reviews on the Plans and Specifications.

## LANDSCAPE ARCHITECTURE

Scope for this project will center around restoring trees and areas impacted by bridge rehabilitation projects. Miller Legg will lead the landscaping efforts, working closely with the survey Team to identify all existing landscaping within the affected area, evaluate potential relocations, and develop plans for reestablishing replacement landscaping.



## EMERGENCY RESPONSE

We inspect immediately with senior staff, confirm temporary shoring needs/recommendations/ design, approach to returning to service, and allocate "all hands on deck" to produce contract documents in the shortest possible timeframe. Examples of TWO's include our work for SR 826 over Flagler Street (D6 DW Maintenance - dumpster truck lift engaged and severed four AASHTO beams. BCC staff developed Signed and Sealed Plans in 2 days) and responding to the 7 Mile Bridge Jacking (BCC segmental bridge experts drove to the Keys from Tallahassee on one day's notice!). BCC also responded to a steel girder strike for I-195 over Biscayne Blvd in Downtown Miami and developed plans for the innovative use of "Heat Straightening" to restore

# APPROACH TO SCOPE OF WORK

the steel girder to it's original design condition and avoid disruptions to this extremely high-traffic downtown Miami location.

## QUALITY CONTROL (QC) PROCESS

All work products (concepts, plans, reports, studies, specifications, estimates, etc.) prepared as part of this contract will be prepared in accordance with a documentable Quality Control (QC) Plan that assures accountability, accuracy, completeness, legibility, application of appropriate design criteria, and good engineering practice. BCC will prepare a contract specific Quality Management Plan (QMP) that addresses the specific review process for each type of document and assigns specific reviewers to each task.

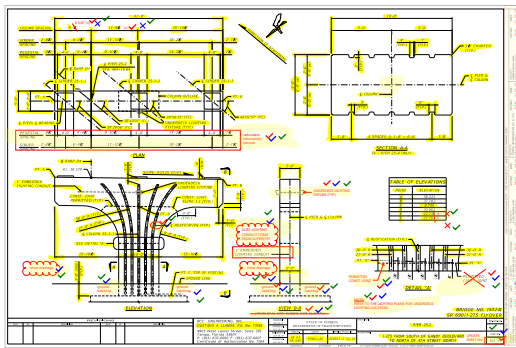
BCC QC reviewers are highly experienced experts in their field. We have identified which staff shall be responsible for QC for the major disciplines on this contract in our organizational chart. All sub consultants will be required to use BCC QMP for the contract. It is important to note that the QMP will be specific to each TWO and considered a "living document" capable of being adjusted should the TWO needs change, i.e. a discipline added to the TWO, or a change in subconsultant staffing requiring confirmation of, and plugging in another qualified individual.

Our QMP and processes go beyond the typical 5-step QC process (i.e. Review, Comment, Resolution, Implementation, Verification check on plans). Our QMP includes reviews for global/micro level issues by senior specialists, BCC's in-house CEI group reviews for Constructability, and a QA of subs' work. From the onset of any Task Work Order (TWO) we will assign QC Reviewers per the contract QMP and include time

in the schedule for QC reviews and comment implementation and backcheck. Our QC also includes lessons learned. Weekly Meetings use "Experience Share" agenda items to capture knowledge gained from past experiences and share it with all staff. For example, after a "Share" including FDOT Marathon Operations "Hot Issues," we updated the Channel 5 Bridge Rehabilitation plan notes to mitigate varying conditions such as existing drilled shaft casing and varying shaft diameters. Here also, BCC went beyond the norm and developed mechanisms specifically designed to capture knowledge. BCC developed the "BCC SDG", a structures Knowledge Base aligned in subject matter with the Sections of the FDOT "Structures Design Guidelines," including items such as software nuances, non-Standard designs/details, and Florida-I Beam camber coefficients used to avoid beam sag in all our projects, to name a few. Staff applies the BCC SDG insights into design/QC on a weekly routine. BCC has also gained valuable construction experience, and a deep appreciation for responsiveness, through completing \$5.6B+ of FDOT Design-Build projects. We find our extensive Design-Build experience has translated extremely well to BCC's continuing services structures contracts, which require responsiveness, sound engineering, and viable solutions in an extremely short time frame.

Tying together the QC Process is our dated/initialled tracking stamp (including electronic/BlueBeam version) affixed to each deliverable to document that the QC Process from document origination to Quality Assurance has been completed, by whom, and on what date. Yet again, BCC Structures went beyond the typical "tracking stamp" documentation. Specifically, BCC Structures developed an innovative Quality Control CADD Cell that runs up the vacant

QUALITY CONTROL TRACKING STAMP		
PHASE		SUBMITTAL REVIEW
Lead Technical Professional (LTP)	Quality Control Reviewer (QCR)	
CADD Technician (CT)	Quality Control Manager (QCM)	
ACTIVITY	INITIALS	DATE
PRODUCTION CHECKING COMPLETE READY FOR QC REVIEW (LTP)		
QC REVIEW (QCR) Correct (Yellow)   Change (Red)		
CONCURRENCE (LTP) Agree (Red Check)   Disagree (Red X-Out)		
CHANGE INCORPORATION (CP & LTP) (CT = Blue Check)   (LTP = Yellow Highlight)		
VERIFICATION (QCR) Correct (Green Check) Incorrect (Green Circle & Remark)		
QUALITY ASSURANCE (QCM)		
NOTE: Only the information that has been added to or modified in this document has been considered for this QC review.		
<b>BCC ENGINEERING, LLC</b>		




BCC Structures' Innovative QC Border File avoids clutter on QC Prints!



space on the side of the plan sheet border, saving space and avoiding clutter on the plan sheet.

## UTILITY COORDINATION



Utilities typically present one of the highest risks on a Structures Rehabilitation project, and the City's bridges involve bridge-mounted utilities or utilities in close proximity to the work. Our Utility Coordination approach will fully assist the design effort. First, our internal kickoff/scheduling meeting will include the Team Utility Coordinator, to confirm the scope of work and critical facilities. We will then proceed to make contact with existing utility owners early in the project schedule and acquiring records, plans, and as-builts from them in order to confirm there will not be unforeseen conflicts with construction of the project and achieving the goal of being utility clear.

This will be accomplished by calling for the Sunshine One-Call Ticket in advance of any design work to confirm which utilities are present within a project's limits and providing them with a preliminary set of plans to use as reference when searching for records. All relevant utility records that are provided will be incorporated into the design plans and reviewed for potential conflicts as the overall design progresses. Often times, available information varies. Our Structural Engineers and Utility Coordinator follow up to confirm what information should be used in plans development. Utility owners will be informed of any conflicts which cannot be mitigated through the design effort, and asked to submit a utility work schedule for any adjustments or relocations needed to accomplish the project's scope. Any required utility agreements and utility requests for compensable interest will be coordinated with the City.

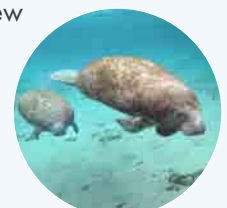
## PERMITTING APPROACH

Permitting requirements can vary greatly by project. Regardless, our initial approach to Permitting remains the same. We coordinate with permitting agencies early to avoid any delays in the plans approval process. Our experience has taught us that agencies and SFWMD typical permit approval timelines are between 2 and 4 months, but if including ACOE approvals can take up to 18 months. As a result, we have developed a contract-specific approach to Environmental Permitting that is both Proactive and Redundant.

We engage the applicable Jurisdictional Agency in the

initial phase of the project or early in the design phase. The following is our proposed procedure applied to secure an effective permitting process for a Structures assignment on this contract:

- Identify all applicable Authorities having Jurisdiction (AHJ) per project scope of services
- Create a permit log with the list of AHJ's including contact information, deliverables, fees and review times
- Contact the AHJ and initiate a pre-application meeting to streamline the review process. The meeting is to introduce the project and discuss permit requirements. This results in time savings during the comments and review process
- During the permitting phase, the supportive documentation is submitted for review and permit approval. Submittals can be run simultaneously as allowed. A Microsoft schedule is used to track the permitting review time to follow up with the reviewing Agency within two to four weeks of the submittal date.



## LAP PROJECTS

BCC's past experiences have taught us the importance of understanding the funding sources our clients use to finance the cost of their projects. We know that some funding sources have specific requirements that must be met and are not typically associated with other funding sources, such as LAP projects. Therefore, as part of our due diligence on this proposal we have familiarized ourselves with some of the sources we anticipate the City will use. So, while we recognize that the City of Fort Lauderdale will be solely responsible for determining the revenue streams that will be used to fund a particular project, we believe it is our role to understand them and be prepared to provide any additional reporting or documentation they may require.

The BCC Team's experience with FDOT, Miami-Dade County, and other work programs can be vital in assisting the City in developing long-term strategies, work programs and implementation of projects. Additionally, the BCC Team is prepared to comply with Federal Funding requirements or needs (as needed.) Additionally, and as important, structures projects in some cases are standalone projects and in

## FOCUS ON THE SUCCESS OF THE PROJECT



The objectives of the project are fulfilled.



The schedule is met.



The budget is not exceeded.



The quality meets standards.

others are part of a larger footprint project. The BCC Team understands the importance of structures, after all, it is the largest one of BCC Engineering's Divisions, and in doing that, we understand how to best deliver the needed improvements to provide for proper structural analysis and needs for any project. From simple bridge rehabilitations to full replacements - we have the experience!

### SCHEDULING METHODOLOGY

To manage and execute the work in optimum time, we first prepare a project/contract Work Plan specific to each TWO, which has the purpose of promoting efficiency by organizing all activities and their completion within schedule as well as budget. This contract is unique for two main reasons:

- Variety of assignments, and
- Simultaneous execution of multiple assignments.

Schedule control and Budget adherence are critical skills for Project Management. On typical projects, Schedule and Budget may stand alone. However, on condensed-schedule TWO's, they go hand-in-hand. Further, developing and meeting schedule milestones and project budgets for the City to execute funding plan goals. Therefore, Schedule and Budget control measures must include both Design and Construction considerations. BCC generates Project Dashboards giving access to live information about your project's schedules.

#### DESIGN

During design, each assignment will include key milestones from the start of design through the handoff to construction. First, we will develop the specific schedule for each assignment received from the City. Then, we will continually report schedule status to the City PM on a regular basis. Identifying potential schedule risk items and taking steps to mitigate risks will also be key in ensure timely delivery of projects to the City. BCC's Project Manager, Joan De La Rosa,

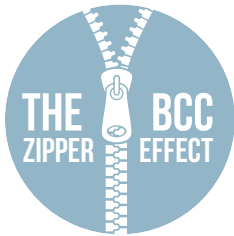
PE understands the key steps needed to identify and mitigate design schedule risks on structures projects. First, senior staff is used to scope the project, develop the fee estimate, and confirm schedule at the onset. Second, we immediately review material and request additional information if required. Joan immediately "dives in" to the preliminary scope and cost estimate, pulling together senior Team members for a Kickoff Meeting to engage the City staff and/or consultants to confirm prior assumptions, confirm anticipated updates, and deliver any schedule update information to the City PM.

Joan also confirms third party involvement, and proceeds to input critical dates into Microsoft Outlook. For Structures, critical dates include Submittals, a two-week duration for QC prior to each Submittal (to ensure comment incorporation and backcheck), dates for information required from others with reminders to collect info on time, and critical durations and interim deadlines, such as Permitting. The schedule is a "living" document and must reflect reality so that any potential slippage can be identified early, and the situation corrected before it becomes an issue. The "critical path", which is the longest path through a project network, may change to reflect the dynamic nature of City projects. If the schedule shows a delay, we will develop a Schedule Recovery Plan that outlines procedures to recover from any delay. This will include assigning additional resources to design activities and starting some activities earlier than planned.

We are also cognizant of the fact that delays may originate from outside entities such as the public or permitting agencies. We will leverage our Team resources to avoid impacts to schedule. When used properly, the schedule is a management tool that can be used to anticipate and prevent problems from occurring. Monitoring and adjusting the schedule is a significant part of our Project Manager's effectiveness in managing the entire process. In this way, we view effective schedule management as being aware of the needs of all disciplines, and proactively addressing the changing needs and requirements of the project. For fast-track TWO's, our schedule process also helps control budget. Use of senior staff to scope the project and prepare the schedule avoids

the need for additional SA's/TWO's related to the same assignment which may also impact budget. For Limiting Amount work, we track labor costs based on the time sheets and anticipate future cost using our Labor Forecast Analysis Spreadsheet, which calculates the remaining budget based on the task billing amount history.

The scheduling tool that we find most helpful is the Monday morning BCC Weekly Structures Production Meeting. BCC's Structures group pulls together for a meeting at the end of which everyone walks out knowing their assignments, with accountability established. Each City TWO has a line item on the Meeting Agenda, to include technical and management aspects. The agenda is a "Cloud-based" living document updated by BCC's PM so it is fresh, and available to be updated by all.



To avoid disconnects, in addition to regular direct communication, information on the status of completeness of staff assignments is kept accessible and at one location. The BCC PM uses this information as the basis to provide the City PM with a weekly "Executive" level update

summarizing the status of all tasks such as schedule, "Ball in Court" information should Joan be awaiting information, with an emphasis on "Items of Interest" such as short-fused tasks or tasks nearing a critical Submittal, and lookaheads. In this way, the **"BCC zipper effect"**, again, ensures from bottom (BCC PM) to top (City PM) the contract is prioritized and delivered on schedule.



## CONSTRUCTION

Designers often view the most effective way to control construction schedule and budget as providing accurate estimates during the design. However, we approach the City Structures TWO's with the mindset of a Designer/Constructor - our job is not done until the City accepts the project as complete. In this way, we also consider responsive, steadfast support throughout Post Design as a key driver to control construction schedule and budget. During design, we use our experience to provide accurate schedule and budget estimates. This support can be in the form of reviewing Construction Schedules prepared by the City or other City Consultants, or independently prepared complete Construction Schedules in Primavera format. Developing an accurate Construction Schedule dovetails neatly with construction cost, particularly concerning Traffic Control quantities for critical facilities that have limited alternative routes, or are located such that noise ordinances and minimizing disruption creates very narrow windows within which the Contractor may work.



# APPROACH TO SCOPE OF WORK

## CURRENT AND PROJECTED WORKLOAD - STAFF



Additionally, the BCC Structures Group current and projected workload does not directly translate to the staff assigned to this contract, since all contract staff is not involved with all BCC Structures Group projects. Therefore, to fully analyze workload, we took a “deeper dive” and analyzed the availability of several key production staff that would be assigned to this contract. The following table summarizes several key staff by showing their total annual hours and identifying their major project commitments while also conservatively projecting “Other Commitments” that will likely require their attention over the life of this City of Fort Lauderdale contract. This table further demonstrates that, to an individual, the timing of this City of Fort Lauderdale contract could not be better. Key staff assigned to this contract have current availability that increases drastically within the next 18-24 months due to several ongoing assignments winding down.

STAFF MEMBER	ROLE	TOTAL ANNUAL HOURS	KEY PROJECT COMMITMENT	ROLE	OWNER	EXPECTED COMPLETION DATE	ANNUAL HOURS COMMITTED					AVERAGE ANNUAL AVAILABILITY
							2025	2026	2027	2028	2029	
Joan De La Rosa, PE, FRSE	Project Manager	2080	DTPW Structures Contract	PM/EOR	FDOT D6	5/31/2026	165	100	60	0	0	79%
			Bridge Repair/Rehab Plans Prep Contract	Deputy PM	FDOT District 6	11/1/2026	40	40	0	0	0	
			Other Commitments	EOR	Varies	2029	610	500	400	140	120	
<b>Subtotal:</b>							<b>815</b>	<b>640</b>	<b>460</b>	<b>140</b>	<b>120</b>	
Richard Pick, PE	Deputy Project Manager	2080	Old Seven Mile Bridge Repair	EOR	FDOT District 6	6/27/2029	250	210	30	0	0	79%
			Bridge Repair/Rehab Plans Prep Contract	EOR	FDOT District 6	12/31/2026	160	170	0	0	0	
			Other Commitments	EOR	Varies	2029	450	360	215	200	100	
<b>Subtotal:</b>							<b>860</b>	<b>740</b>	<b>245</b>	<b>200</b>	<b>100</b>	
Bob Forand, PE, FRSE	Quality Assurance	2080	Old Seven Mile Bridge Repair	PM	FDOT District 6	6/27/2029	86	58	0	0	0	86%
			Bridge Repair/Rehab Plans Prep Contract	PM	FDOT District One	11/1/2026	167	152	0	0	0	
			Other Commitments	Varies	Varies	2029	200	200	200	200	200	
<b>Subtotal:</b>							<b>453</b>	<b>410</b>	<b>200</b>	<b>200</b>	<b>200</b>	
Christian Aquino, PE, SI, FRSE	Vertical Structures Lead	2080	CR 510 from 82nd Ave to 58th Ave	PM	City of Miami Beach	12/25/2025	350	350	250	200	100	70%
			SR 600 John Young Parkway	PM	City of Miami Beach	7/12/2027	150	40	0	0	0	
			Other Commitments	Varies	Varies	2029	400	400	300	300	250	
<b>Subtotal:</b>							<b>900</b>	<b>790</b>	<b>550</b>	<b>500</b>	<b>350</b>	
Bill Junkin, PE	Movable Bridge Lead	2080	Bridge Maintenance Contract	EOR	FDOT District One	2/28/2027	350	250	200	150	20	68%
			DTPW Structures Contract	EOR	FDOT D6	5/31/2026	350	250	150	0	0	
			Other Commitments	Varies	Varies	2029	500	400	300	200	200	
<b>Subtotal:</b>							<b>1200</b>	<b>900</b>	<b>650</b>	<b>350</b>	<b>220</b>	
John Kuretski, PE	Structures Quality Control	2080	Statewide Independent Peer Review Contract	Reviewer	FDOT Central Office	4/2/2026	150	0	0	0	0	88%
			Other Commitments	Varies	Varies	2029	300	300	300	200	0	
<b>Subtotal:</b>							<b>1100</b>	<b>520</b>	<b>360</b>	<b>200</b>	<b>0</b>	
Carlos Alcantara, PE	Roadway Lead	2080	95 Express Phase 3C Design-Build	PM	FDOT District 4	8/1/2025	300	0	0	0	0	68%
			Bridge Repair/Rehab Plans Prep Contract	Roadway Lead	City of Sunrise	11/1/2026	250	120	0	0	0	
			Other Commitments	Varies	Varies	2029	550	400	360	200	0	
<b>Subtotal:</b>							<b>1100</b>	<b>520</b>	<b>360</b>	<b>200</b>	<b>0</b>	

## AVAILABLE FACILITIES, CAPABILITIES, AND RESOURCES

In addition to that already demonstrated, the BCC Team provides a variety of value-added services that enhance project outcomes, from technical innovations to the “intangibles” that ensure project success.

### GRAPHICS/ RENDERING SERVICES

BCC’s Graphics Team specializes in preparing infrastructure graphics depicting existing, interim, and final conditions that are extremely effective at conveying the project purpose and need, as well as the project vision, to key stakeholders. Often after a project is completed, actual photos are compared to previous renderings, and it is difficult to distinguish “the real thing” from the rendering; an example is shown below.



### DRONE PILOT SERVICES

AA-certified drone pilots can quickly gather aerial data and imagery to support project assessments, such as traffic pattern analysis or documenting existing conditions. In the City of Fort Lauderdale, we can deploy drones promptly to capture critical data for studies and presentations.



### DESIGN BUILD EXPERTISE

With over \$6 billion in FDOT Design-Build projects, BCC brings valuable construction insights that streamline traditional projects. This experience allows us to offer innovative, cost-effective solutions while mitigating risks. These methods will help ensure the seamless integration of design and construction phases for the City’s projects.

### GRANT APPLICATION SUPPORT



MIAMI-DADE COUNTY  
**VISION ZERO**

BCC has successfully secured funding for municipal projects, including Miami-Dade County’s Safe Streets and Roads for All (SS4A) grant, which received \$16.2 million for Vision Zero safety initiatives. We craft compelling grant applications that align with the City’s goals, ensuring compliance and maximizing funding opportunities.

### PUBLIC OUTREACH DOCUMENTATION

For any project, having visuals to explain concepts, is imperative. BCC continuously obtains public support by showing the potential of a project visually. From certified drone pilot capabilities to 3D visualization Teams, we can show our clients, the community, and stakeholders step-by-step project sequencing and apply these arts to communications with the public.

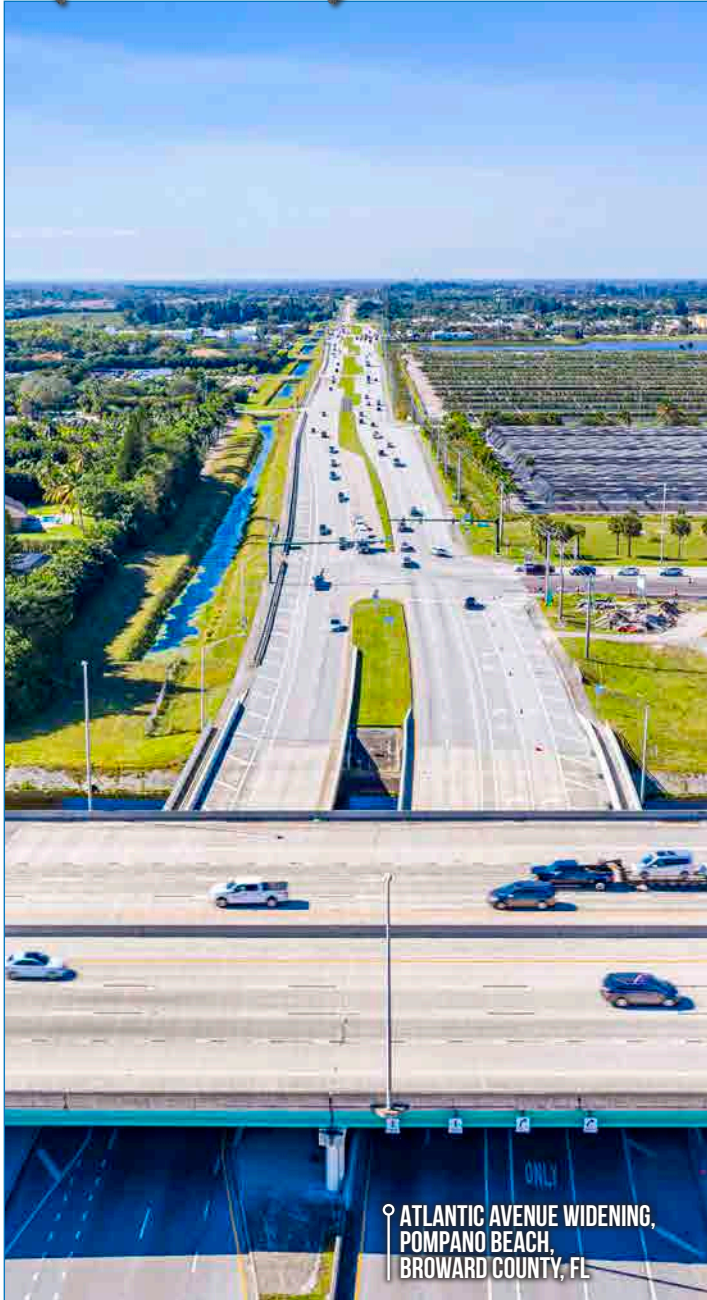
# APPROACH TO SCOPE OF WORK

## BCC Public Outreach Documentation, In-house Visualization, and Drone Pilot Capabilities

For any project, having visuals to explain concepts, is imperative. BCC continuously obtains public support by showing the potential of a project visually. From certified drone pilot capabilities to 3D visualization Teams, we can show our clients, the community, and stakeholders step-by-step project sequencing and apply these arts to communications with the public.



## CERTIFIED DRONE PILOT CAPABILITIES





## FULL IN-HOUSE VISUALIZATION CAPABILITIES



📍 PALMETTO EXPRESSWAY SECTION 5  
3D RENDERING,  
MIAMI-DADE COUNTY, FL



📍 DOLPHIN STATION  
PARK N RIDE 3D RENDERING,  
SWEETWATER, FL



## FULL IN-HOUSE PUBLIC INVOLVEMENT MATERIAL PRODUCTION

### Miami-Dade County Vision Zero Initiative Public Involvement Sample Materials

**MIAMI-DADE COUNTY**  
**VISION ZERO**

**MIAMI-DADE COUNTY'S DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS SAFETY INITIATIVE**

### WHAT?

Vision Zero is a countywide safety initiative with a goal to **ELIMINATE ALL TRAFFIC FATALITIES AND SEVERE INJURIES BY 2040**, while increasing the safety, mobility, and health of all county residents. We are focused on system-level changes at how we plan, design, and build our transportation network.

### WHY?

**ON MIAMI-DADE'S ROADS...**

6 WEEKLY FATALITIES  
87 ANNUAL PEDESTRIAN FATALITIES  
374 WEEKLY CRASH INJURIES  
17 ANNUAL BICYCLE FATALITIES

**... EVEN ONE LIFE LOST IS TOO MANY**

### HOW?

**SAFE SYSTEM FOCUS AREAS**

Making a commitment to zero traffic deaths means addressing all aspects of safety through five overarching program focus areas. Our focus areas are based on FHWA's Safe System approach that, together, creates a holistic approach with layers of protection for all road users. Our focus areas are:

- Promote a Culture of Safety
- Enhance Process and Collaboration
- Build Safe Streets for Everyone
- Create Safe Speeds
- Make Data-Driven Decisions

### WHAT YOU CAN DO

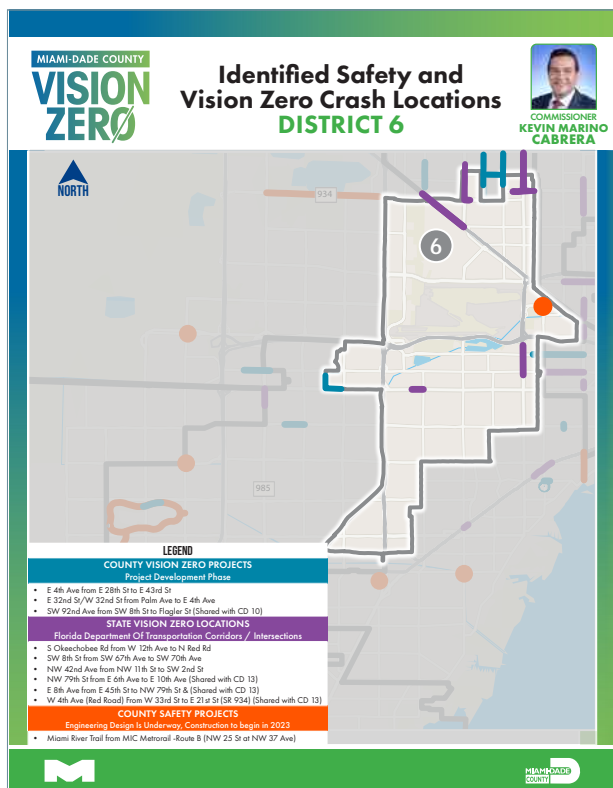
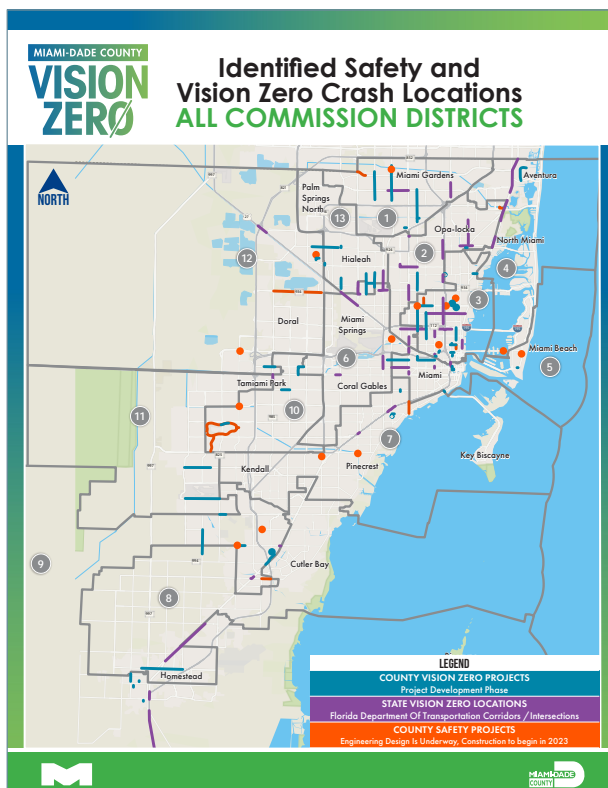
We want to hear about what you are experiencing when walking, biking, taking transit, or driving.





MiamiDade.gov/VisionZero







# HISTORY AND PAST PERFORMANCE

# HISTORY & PAST PERFORMANCE

The BCC Team has a strong track record with Continuing Contracts. More specifically, structures Continuing Contracts in Florida including municipalities, counties, and FDOT. The following pages provide history and past performance information for 7 Continuing Contracts similar to this City of Fort Lauderdale contract. Several notable difficulties and challenges overcome are listed along the right side of these pages.

Additionally, BCC has unmatched Florida bridge repair and rehabilitation experience and expertise. The below table summarizes several of BCC's recent projects in terms of schedule, budget, and RFI's - all key indicators that we are producing quality documents and working until project acceptance to keep bridge repair projects on track.

PROJECT DESCRIPTION / LOCATION	SCHEDULE DAYS		CONSTRUCTION ESTIMATE	CONSTRUCTION ACTUAL	NO. OF RFIS	PDS (BUDGET)	PDS (ACTUAL)
	CONTRACT	ACTUAL					
Golden Glades Interchange	360	290	\$2,146,108	\$2,355,414	6	\$26k	\$10k
Overseas Hwy/Ohio-Missouri Channel	485	481	\$2,888,376	\$2,518,314	13	\$50k	\$19k
I-95 at SW 1st Ave/Metrorail	393	353	\$1,579,746	\$1,465,169	5	\$29k	\$4k
I-95 SB Downtown Distributor	317	317	\$838,500	\$763,060	2	\$23k	\$1k
Boca Chica Road/Geiger Creek	170	137	\$619,197	\$598,703	5	\$30k	\$7k
Alhambra Circle/Coral Gables Canal	174	170	\$319,401	\$266,977	5	\$26k	\$2k

**REFERENCE PROJECTS AND KEY SCOPE ELEMENTS**

NO.	PROJECT   CITY	DESCRIPTION	KEY SCOPE ELEMENTS																			
			SOUTH FLORIDA PROJECT	COASTAL/MARINE STRUCTURES	VERTICAL STRUCTURES/BUILDINGS	RESILIENCY AND SEA LEVEL RISE	CONTINUING SERVICES CONTRACT	TASK WORK ORDERS	MANAGING COMPREHENSIVE TEAM	HIGH PROFILE PROJECT	URGENT RESPONSE	STRUCTURAL INSPECTIONS	STRUCTURAL ASSESSMENTS	BRIDGE REPAIR/REHABILITATION	CORROSION INVESTIGATION	ENVIRONMENTAL PERMITTING	PUBLIC OUTREACH	UTILITY COORDINATION	SUSTAINABLE DESIGN	ADA COMPLIANCE/DESIGN	POST DESIGN SERVICES	CEI
1	<b>Continuing Services Structures Contract</b> Fort Lauderdale, FL	Ongoing structural engineering contract supporting bridges, seawalls, buildings, and utility infrastructure for the City of Fort Lauderdale through inspections, evaluations, and rehabilitation design.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
2	<b>Professional A&amp;E Services</b> Miami Beach, FL	Ongoing A&E contract with task orders for seawall design, permitting, and construction support at multiple locations, including emergency repairs and replacements.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
3	<b>City-Wide Bridge Rehabilitation Continuing Services</b> Sarasota, FL	Ongoing structural services contract with the City of Sarasota, providing bridge and culvert inspections, rehabilitation design, permitting, load ratings, and construction support for city-wide infrastructure needs.		●		●	●	●	●	●	●	●	●		●	●		●		●		
4	<b>Professional Services for Bridge Structural Engineering Projects</b> Miami-Dade County, FL	As part of DTPW's continuing structures contract, BCC provides bridge design, load ratings, permitting, and construction support through task work orders issued by the Department.	●	●		●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
5	<b>Professional Services for Highway Engineering Services</b> Miami-Dade County, FL	5-year continuing contract with DTPW to support roadway and bridge projects county-wide. Services include planning, design, utilities coordination, and quality assurance. Key task orders include bridge rehabilitation and urgent repair design.	●	●		●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●
6	<b>Structures Design Consultant</b> Lee, Charlotte, Okeechobee, Sarasota, Manatee Counties, FL	Prime consultant on FDOT District 1's continuing structures contract, with 850+ task orders delivered. Scope includes bridge design, evaluations, load ratings, and plan reviews.		●	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	●
7	<b>District-Wide Structures Repair/Rehab Plans Preparation</b> Miami-Dade & Monroe Counties, FL	Prime consultant on FDOT District 6's bridge maintenance contract, delivering 58 task orders to date. Scope includes inspections, bridge repairs, cathodic protection, MOT, and post-design support.	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



# PROJECT 1

## CONTINUING SERVICES STRUCTURES CONTRACT, FORT LAUDERDALE, FL

## DIFFICULTIES ENCOUNTERED MANAGING A COMPREHENSIVE TEAM BRIDGE REHABILITATION

### DESCRIPTION OF WORK:

This City of Fort Lauderdale Miscellaneous Structural Engineering Consulting Task Work Order (TWO) Contract provides structural engineering services for a wide range of City-owned assets, including bridges, seawalls, buildings, signs, culverts, drainage structures, and water/wastewater facilities. Task orders have included inspections, condition assessments, structural evaluations, master planning, and design of new and rehabilitated structures using conventional and advanced materials. BCC Engineering was selected as a large-sized firm—qualified for TWOs with design costs up to \$200,000 or construction costs up to \$2 million. The contract emphasizes sustainable design, resiliency, and climate adaptation. It was originally awarded for two years with two one-year renewal options. Key assignments include:

- Seawall Master Plan
- Butler Building Structural Analysis and Cost Estimate
- Butler Building Design Criteria Package Development
- Five Ash Wellfield Diesel Tank Removal
- SE 17th Ave Bridge Structural Condition Assessment
- West Lake Drive Bridge Repair
- Fiveash Wellfield Storage Shed

LARGE SCALE/REGIONAL ASSIGNMENT  
(SEAWALL MASTER PLAN)

VERTICAL STRUCTURE ASSESSMENTS  
AND EXPANSION

BRIDGE REPLACEMENT

**CLIENT NAME & ADDRESS:** City of Fort Lauderdale | 949 NW 38<sup>th</sup> St, Fort Lauderdale, FL 33309

**CONTACT PERSON:** Raymond Nazaire, PE | 954.828.5000 | rnazaire@fortlauderdale.gov

**DATES:** 2016 - 2025

**PROJECT COST/ TIMELINE:** \$429,965.92 | Contract is currently active

# PROJECT 2



GETTING THERE  
JUST GOT EASIER

## PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES, MIAMI BEACH, FL

## DIFFICULTIES ENCOUNTERED MANAGING A COMPREHENSIVE TEAM POST DESIGN SUPPORT

### DESCRIPTION OF WORK:

Under the City of Miami Beach's continuing Professional A&E Services Agreement, BCC has completed multiple task work order assignments involving planning, design, permitting, bidding, construction administration, and CEI services. Key assignments include:

- **Fleet Management Seawall Assessment & Repair (2017 - 2018)**  
BCC performed an emergency assessment and full design for the replacement of a deteriorated steel sheet pile seawall behind the City's Fleet Management Facility on Terminal Island. Our inspection—conducted by land and water—revealed significant settlement and collapse of the adjacent walkway due to soil washout and seawall corrosion. BCC recommended immediate replacement and provided full structural design, permitting, and construction administration for a new king pile seawall system with increased corrosion protection and a pile depth of 63 feet.
- **Seawall Replacements at 48th Street and 29th Street (2021 - Ongoing):**  
BCC provided design and permitting services for seawall replacements at two locations: 48th St and North Bay Rd (~60') and 29th St and Flamingo Dr (~40'). Scope included precast panel and pile seawalls, benthic surveys, geotechnical coordination, structural and civil engineering, permitting (City of Miami Beach, SFWMD, and Miami-Dade RER), bidding support, construction administration, and project closeout.

- SEAWALL REPLACEMENT IN CLOSE PROXIMITY TO RESIDENTIAL PROPERTIES
- SEAWALL ASSESSMENTS AND PHASED REPAIRS TO MAINTAIN STRUCTURAL INTEGRITY AND AVOID DISRUPTION
- CORROSION PROTECTION IN HIGHLY CORROSIVE ENVIRONMENT
- PERMITTING
- GEOTECHNICAL

**CLIENT NAME & ADDRESS:** City of Miami Beach | 1700 Convention Center Drive, Miami Beach, FL 33139

**CONTACT PERSON:** Matthew LePera, PE | 305.673.7000 | MatthewLePera@miamibeachfl.gov

**DATES:** 2017 - Ongoing

**PROJECT COST/ TIMELINE:** \$268,433.00 | Contract is currently active, with all task orders delivered on time and within budget.

# PROJECT 3



GETTING THERE  
JUST GOT EASIER™



## CITY-WIDE BRIDGE REHABILITATION CONTINUING SERVICES, CITY OF SARASOTA, FL

### DIFFICULTIES ENCOUNTERED MANAGING A COMPREHENSIVE TEAM EMERGENCY INSPECTIONS

#### DESCRIPTION OF WORK:

Structural Engineering consulting services are provided for the City of Sarasota, covering the preparation of drawings, specifications, permits, and documents needed for rehabilitating and maintaining bridges and box culverts city-wide. The projects involve detailed investigations, design, and testing to produce necessary bid documents for rehabilitating different bridge structures. In-depth surveys and inspections are conducted, using non-invasive and non-destructive testing methods to assess bridge integrity. The services also include developing maintenance plans and providing Post Design Services such as RFI's, Material Submittal Reviews, and on-site monitoring during construction. Additionally, support services encompass Utility Coordination, Hazardous Materials Testing, Environmental Permitting, Coastal Engineering, and Public Involvement. The contract offers specific assignments and on-demand support, allowing the City to engage BCC for various consulting needs, including emergency support.

REPAIRS TO BRIDGES THAT PROVIDE THE SOLE ACCESS TO RESIDENTIAL ISLANDS  
BRIDGE LOAD RATING  
PEDESTRIAN RELATED IMPROVEMENTS AND ADA COMPLIANCE  
IN-PLACE SEAWALL REPAIRS  
STRUCTURES ASSESSMENTS AND INSPECTIONS

- Bridge No. 175760 Azinger Way Over Main Canal B Load Rating Evaluation
- Bridge No. 175700 Emergency Inspection and Associated Services
- Footbridge near Bobby Jones, Shade Avenue Complete Streets Project, Bridge Inventory & Prioritization, Invitation to Bid Documents
- Serena St. Pedestrian Bridge and Sidewalk Improvements
- Bridge No. 175550 Seawall Repair

**CLIENT NAME & ADDRESS:** City of Sarasota | 1761 12<sup>th</sup> St, Sarasota, FL 34236

**CONTACT PERSON:** Nikesh Patel | 941.263.6132 | nikesh.patel@sarasotafl.gov

**DATES:** 2022 - Ongoing

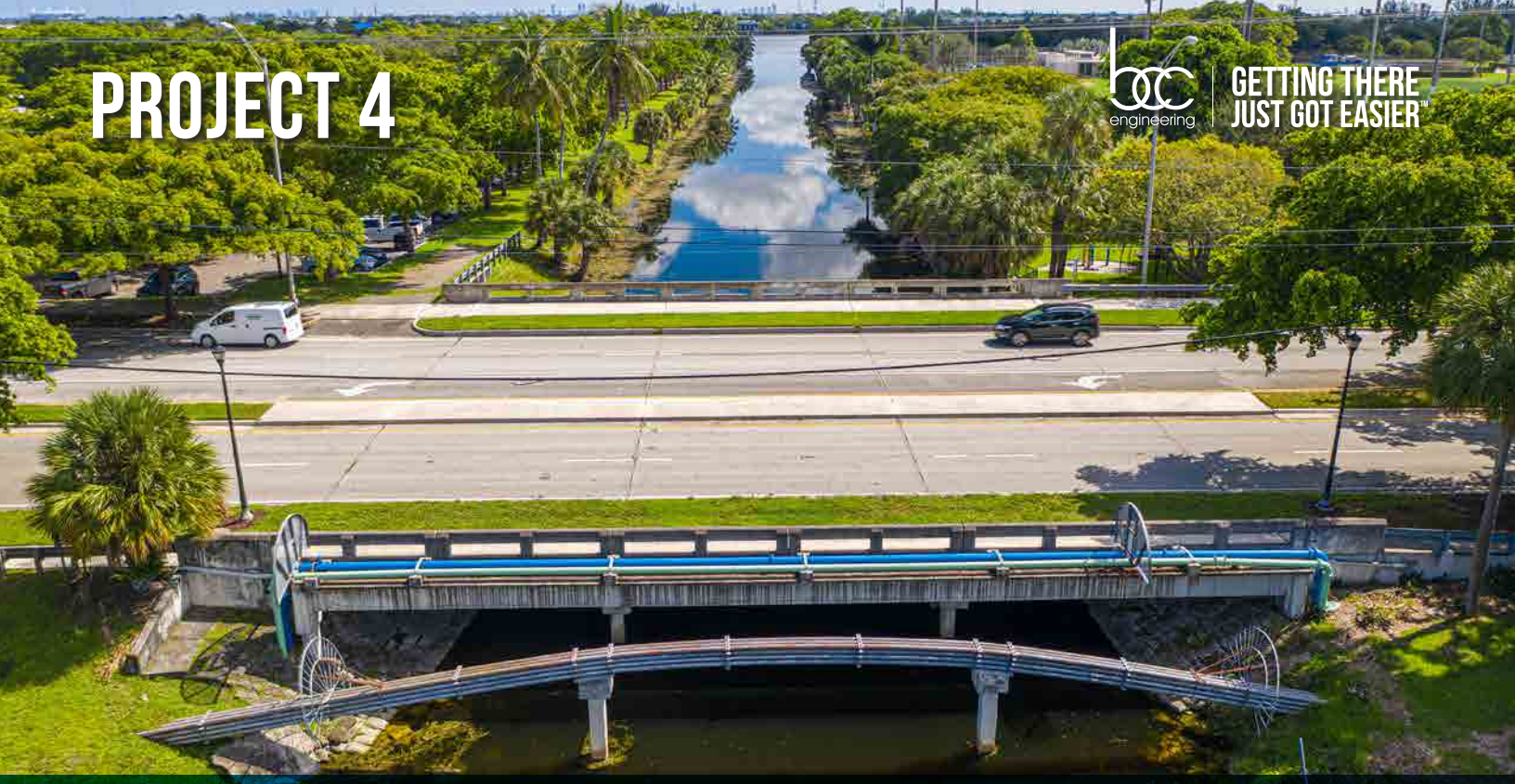
**PROJECT COST/ TIMELINE:** \$1 Million | Contract is currently active, with all task orders delivered on time and within budget.

CAM #26-0608

# PROJECT 4



GETTING THERE  
JUST GOT EASIER



## PROFESSIONAL SERVICES FOR BRIDGE STRUCTURAL ENGINEERING PROJECTS, MIAMI-DADE COUNTY, FL

**DIFFICULTIES ENCOUNTERED**  
MANAGING A COMPREHENSIVE TEAM  
INDEPENDENT PEER REVIEW SERVICES

### DESCRIPTION OF WORK:

Under the Continuing Services DTPW Structures Contract (E20-DTPW-02)(CIP240-DTPW20-DE(2)), BCC provides professional structural engineering services to meet the needs of the Department of Transportation and Public Works (DTPW). Key services include bridge design (minor and major), load rating and analysis, drainage and roadway design, geotechnical engineering, environmental permitting and coordination, and construction management. These services are provided by BCC as directed by the project manager through the issuance of task work orders.

Below are the most relevant task work orders:

- Ludlam Trail - Pedestrian Bridge over Coral Way
- NW 22nd Ave C-8 Canal Sonovoid Bridge Retrofit
- NW 67th Ave C-8 Canal Sonovoid Bridge Retrofit
- NW 74th St Bridge
- Venetian Causeway Bridge Independent Peer Review

SLAB UNIT BRIDGE RETROFITS WITH "ROTATION RESTRAINTS" TO KEEP THE OUTSIDE SLAB UNITS AND SIDEWALKS FROM ROTATING DOWN AND AWAY FROM THE BRIDGE

NEW PEDESTRIAN BRIDGE CONSTRUCTION IN A HIGHLY CONGESTED, URBAN AREA  
SONOVOID SLAB UNIT BRIDGE ASSESSMENT TO REUSE EXISTING SUBSTRUCTURE AND REPLACE ONLY THE SUPERSTRUCTURE

**CLIENT NAME & ADDRESS:** Miami-Dade County DTPW | 111 NW 1st St, Miami, FL 33128

**CONTACT PERSON:** Gabriel Delgado, PE | 305.375.5681 | Gabriel.Delgado@miamidade.gov

**DATES:** 2023 - 2028

**PROJECT COST/ TIMELINE:** \$3 Million | Contract is currently active, with all task orders delivered on time and within budget.

# PROJECT 5



## PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES, MIAMI-DADE COUNTY, FL

### DIFFICULTIES ENCOUNTERED MANAGING A COMPREHENSIVE TEAM BRIDGE MOUNTED UTILITIES

#### DESCRIPTION OF WORK:

The project will be a 5-year work order-based contract to develop highway projects and support the Department of Transportation and Public Works (DTPW) throughout Miami-Dade County. Preliminary projects identified include the widening and resurfacing of arterial and collector roadways. BCC will primarily support the Highway Division of DTPW with planning, design and engineering, public involvement, right-of-way and utilities coordination, construction, project control, estimating services, plans review, and quality assurance. Services will be provided on an as-needed basis.

Below are the most relevant task work orders:

- Design Rehabilitation and Painting for Curtiss Parkway Bridge Over Miami Canal (Project No. 20210211)
- Design Rehabilitation and Painting for South Hook Square Bridge #874129 (Project No. 20210215)
- Urgent Repair Design for SW 57th Ave/Snapper Creek Bridge No. 874251 (Project No. 20210226)

**CLIENT NAME & ADDRESS:** Miami-Dade County DTPW | 111 NW 1st St, Miami, FL 33128

**CONTACT PERSON:** Jacqueline Alcina, PE | 305.375.3946 | Jacqueline.Alcina@miamidade.gov

**DATES:** 2020 - 2026

**PROJECT COST/ TIMELINE:** \$5 Million | Contract is currently active, with all task orders delivered on time and within budget.

REPAIR AND PAINTING OF HISTORIC  
SWING SPAN AND LIFT SPAN BRIDGES  
ADJACENT TO MIAMI SPRINGS AND  
OKEECHOBEE ROAD  
URGENT REPAIR OF DECK PUNCTURE OF  
A CONCRETE BEAM/DECK BRIDGE  
HIGH TRAFFIC AREAS REQUIRING  
ENHANCED MOT  
PERMITTING COORDINATION  
PUBLIC OUTREACH  
HIGH PROFILE BRIDGES THAT HAVE THE  
ATTENTION OF LOCAL POLITICIANS

# PROJECT 6



GETTING THERE  
JUST GOT EASIER™

## STRUCTURES DESIGN CONSULTANT, LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL

### DESCRIPTION OF WORK:

BCC has served as Prime Consultant for three consecutive 5-year cycles of this important FDOT bridge contract, all told 851 Task Work Orders to date. This 5-year, Task Work Order (TWO)-based contract was established to support the FDOT District Structures Office in the management and execution of its Structures Program. BCC serves as Prime Consultant, responsible for contract management and the delivery of structural engineering services, along with additional support in roadway design, signing and pavement markings (S&PM), and temporary traffic control plans (TTCP).

The contract covers a wide range of structural engineering tasks related to the development of construction documents and the assessment of both new and existing infrastructure. These services include the design and preparation of construction plans for Category 1 bridges and miscellaneous structures, development of approach roadway elements, and production of CADD drawings following FDOT standards.

Additional responsibilities include the review of shop drawings, scour evaluation reports, bridge load ratings, and cost-saving proposals submitted during construction. BCC also supports field reviews at various phases of project development, performs evaluations of damaged or aging structures, and prepares bridge evaluation reports for 3R projects. The scope further includes peer reviews of FDOT-prepared plans and participation in Value Engineering Study Teams to help identify alternative solutions and refine project delivery methods. Through this contract, the Department can access a range of structural engineering services on an as-needed basis to support ongoing priorities and program goals.

**CLIENT NAME & ADDRESS:** FDOT District 1 | 801 N. Broadway Ave, Bartow, FL

**CONTACT PERSON:** Mark Peronto, PE | 863.519.2300 | Mark.Peronto@dot.state.fl.us

**DATES:** 2013 - 2028

**PROJECT COST/ TIMELINE:** Varies | Contract is currently active, with all task orders delivered on time and within budget.

### DIFFICULTIES ENCOUNTERED MANAGING A COMPREHENSIVE TEAM POST DESIGN SUPPORT

OVER 700 STRUCTURAL TASK WORK  
ORDERS

PLANS REVIEWS

REGIONAL ASSIGNMENTS REQUIRING  
DEPLOYING STAFF AND ORGANIZED,  
EFFICIENT INSPECTIONS

POST-HURRICANE SUPPORT

POST DESIGN SUPPORT

BRIDGE REPAIRS AND RETROFITS

# PROJECT 7



## DISTRICT-WIDE STRUCTURES REPAIR/ REHAB PLANS PREPARATION, MIAMI-DADE & MONROE COUNTIES , FL

### DESCRIPTION OF WORK:

BCC has served as Prime Consultant for three 5-year cycles of this important FDOT bridge maintenance contract, all told 58 Task Work Orders to date. This contract includes 18 Task Work Orders involving inspections, scoping reports, bridge repairs (deck cracking, spalls, slope stabilization), steel painting, cathodic protection, safety and geometry upgrades, approach improvements, wingwall repairs, and scour countermeasures. Work also covered MOT, public outreach, signing, pavement markings, phased construction, and technical specifications. Post-design services included shop drawing reviews, RFIs, material certifications, and on-call construction support. Below are some of the task work orders:

- Ramp from SR 9A/I-95 to NW 7th Avenue at Golden Glades Interchange Bridge No. 870470
- SR 5/US 1 Overseas Highway over Ohio-Missouri Channel Repair/Rehabilitation Bridge No. 900104
- SR 5/US-1 Overseas HWY over Boca Chica Channel
- SR 93/I-75 Off Ramp to NW 138th Street Repair/Rehabilitation/Painting Bridge No. 870604
- SR 9A/I-95 Northbound at SW 1st Avenue Repair/Rehabilitation/Painting Bridge Nos. 870354 and 870451
- Old Seven Mile Bridge Repair/Rehabilitation/Painting Bridge No. 900020
- Julia Tuttle Causeway over Intracoastal Waterway Repair/Rehabilitation/Painting Bridge No. 870301

**CLIENT NAME & ADDRESS:** FDOT District 6 | 1000 NW 111th Avenue, Miami, FL 33172

**CONTACT PERSON:** Pablo Orozco, PE | 305. 470. 5370 | Pablo.Orozco@dot.state.fl.us

**DATES:** 2011 - 2025

**PROJECT COST/ TIMELINE:** \$907, 897.05 | Contract is currently active, with all task orders delivered on time and within budget.

### DIFFICULTIES ENCOUNTERED MANAGING A COMPREHENSIVE TEAM REPAIRS TO COASTAL BRIDGES

CATHODIC PROTECTION

REPAIRS TO BRIDGES THAT PROVIDE  
THE SOLE ACCESS TO ISLAND  
COMMUNITIES AND NEIGHBORHOODS

PUBLIC OUTREACH

ENVIRONMENTALLY SENSITIVE AREAS

PROTECTED SPECIES

URBAN, HIGH TRAFFIC LOCATIONS

HISTORIC STRUCTURES SUCH AS THE  
"OLD 7 MILE BRIDGE" IN THE KEYS



# REFERENCES



## **CONTINUING SERVICES STRUCTURES CONTRACT, FORT LAUDERDALE, FL**

**CLIENT NAME:** CITY OF FORT LAUDERDALE

**ADDRESS:** 949 NW 38TH ST, FORT LAUDERDALE, FL 33309

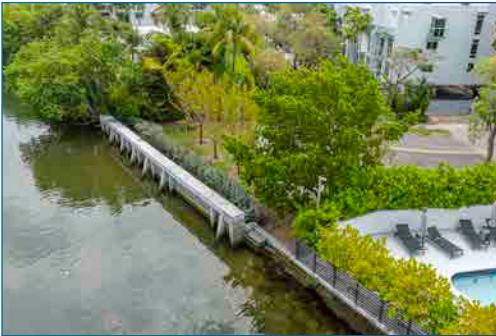
**CONTACT PERSON:** RAYMOND NAZAIRE, PE

**EMAIL/ PHONE NUMBER:** 954.828.5000 | RNAZAIRE@FORTLAUDERDALE.GOV

**YEAR OF COMPLETION:** 12/2025

### **DESCRIPTION OF WORK:**

Under this ongoing contract, BCC provides structural engineering services for City-owned assets including bridges, seawalls, and facilities. Task orders include inspections, evaluations, and design of new and rehabilitated structures. BCC was selected as a large-sized firm, qualified for projects up to \$2 million.



## **PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES, MIAMI BEACH, FL**

**CLIENT NAME:** CITY OF MIAMI BEACH

**ADDRESS:** 1700 CONVENTION CENTER DRIVE, MIAMI BEACH, FL 33139

**CONTACT PERSON:** MATTHEW LEPERA, PE

**PHONE NUMBER/ EMAIL:** 305.673.7000 | MATTHEWLEPERA@MIAMIBEACHFL.GOV

**YEAR OF COMPLETION:** ONGOING

### **DESCRIPTION OF WORK:**

Under the City of Miami Beach's continuing A&E contract, BCC has delivered task orders for seawall assessment, design, permitting, and construction support. Key projects include emergency seawall replacement at the Fleet Management Facility and ongoing seawall replacements at 48th Street and 29th Street.



## **CITY-WIDE BRIDGE REHABILITATION CONTINUING SERVICES, CITY OF SARASOTA, FL**

**CLIENT NAME:** CITY OF SARASOTA

**ADDRESS:** 1761 12<sup>TH</sup> ST, SARASOTA, FL 34236

**CONTACT PERSON:** NIKESH PATEL

**EMAIL/ PHONE NUMBER:** 941.263.6132 | NIKESH.PATEL@SARASOTAFL.GOV

**YEAR OF COMPLETION:** ONGOING

### **DESCRIPTION OF WORK:**

Ongoing structural services contract with the City of Sarasota, providing bridge and culvert inspections, rehabilitation design, permitting, load ratings, and construction support for city-wide infrastructure needs.



## PROFESSIONAL SERVICES FOR BRIDGE STRUCTURAL ENGINEERING PROJECTS, MIAMI-DADE COUNTY, FL

**CLIENT NAME:** MIAMI-DADE COUNTY DTPW

**ADDRESS:** 111 NW 1ST ST, MIAMI, FL 33128

**CONTACT PERSON:** GABRIEL DELGADO, PE

**EMAIL/ PHONE NUMBER:** 305.375.5681 | GABRIEL.DELGADO@MIAMIDADE.GOV

**YEAR OF COMPLETION:** 2028

### DESCRIPTION OF WORK:

Under DTPW's continuing structures contract, BCC provides structural engineering services including bridge design, load ratings, permitting, and construction support through task work orders. Key assignments include the Ludlam Trail Pedestrian Bridge, NW 22nd Ave and 67th Ave Bridge Retrofits, NW 74th St Bridge, and a peer review for the Venetian Causeway.



## PROFESSIONAL SERVICES FOR HIGHWAY ENGINEERING SERVICES, MIAMI-DADE COUNTY, FL

**CLIENT NAME:** MIAMI-DADE COUNTY DTPW

**ADDRESS:** 11 NW 1ST ST, MIAMI, FL 33128

**CONTACT PERSON:** JACQUELINE ALCINA, PE

**EMAIL/ PHONE NUMBER:** 305.375.3946 | JACQUELINE.ALCINA@MIAMIDADE.GOV

**YEAR OF COMPLETION:** 2026

### DESCRIPTION OF WORK:

This City of Fort Lauderdale Miscellaneous Structural Engineering Consulting Task Work Order (TWO) Contract provides structural engineering services for a wide range of City-owned assets, including bridges, seawalls, buildings, signs, culverts, drainage structures, and water/wastewater facilities. Task orders have included inspections, condition assessments, structural evaluations, master planning, and design of new and rehabilitated structures using conventional and advanced materials.



## STRUCTURES DESIGN CONSULTANT, LEE, CHARLOTTE, OKEECHOBEE, SARASOTA, MANATEE COUNTIES, FL

**CLIENT NAME:** FDOT DISTRICT 1

**ADDRESS:** 801 N. BROADWAY AVE, BARTOW, FL

**CONTACT PERSON:** MARK PERONTO, PE

**EMAIL/ PHONE NUMBER:** 863.519.2300 | MARK.PERONTO@DOT.STATE.FL.US

**YEAR OF COMPLETION:** 2028

### DESCRIPTION OF WORK:

As Prime Consultant on FDOT District 1's bridge contract for three consecutive 5-year cycles, BCC has completed over 850 task orders. Services include bridge design, load ratings, plan production, shop drawing reviews, field evaluations, and peer reviews, supporting FDOT's Structures Program on an as-needed basis.



## **DISTRICT-WIDE STRUCTURES REPAIR/REHAB PLANS PREPARATION, MIAMI-DADE & MONROE COUNTIES, FL**

**CLIENT NAME:** FDOT DISTRICT 6

**ADDRESS:** 1000 NW 111<sup>TH</sup> AVENUE, MIAMI, FL 33172

**CONTACT PERSON:** PABLO OROZCO, PE

**EMAIL/ PHONE NUMBER:** 305. 470. 5370 | PABLO.OROZCO@DOT.STATE.FL.US

**YEAR OF COMPLETION:** 2011 - 2025

### **DESCRIPTION OF WORK:**

As Prime Consultant on FDOT District 6's bridge maintenance contract for three 5-year cycles, BCC has completed 58 task orders involving bridge inspections, repairs, and rehabilitation. Work has included deck and slope repairs, steel painting, cathodic protection, MOT, and post-design support. Key projects include the Old Seven Mile Bridge, Julia Tuttle Causeway, and multiple I-95 and US-1 bridges throughout Miami-Dade and Monroe Counties.



# 00 MINORITY / WOMEN (M/WBE) PARTICIPATION



## MINORITY-WOMEN (MWBE) PARTICIPATION

Although BCC is not a certified Minority/Women Business Enterprise (M/WBE), we are proud to partner with firms that reflect our commitment to diversity and inclusion. Our subconsultants on this contract include **Smart-Sciences, Inc.**, a woman-owned business, **Media Relations Group, LLC**, a woman- and minority-owned business, and **Kind Designs**, a woman-owned small business. **These partnerships are a reflection of our ongoing efforts to promote equity and provide meaningful opportunities for underrepresented firms within the A/E/C industry.**

As a company that began as a small, woman-owned business, we understand firsthand the challenges that small, disadvantaged, and minority-owned enterprises face when entering and competing in the industry. This experience has shaped our values and solidified our long-standing commitment to actively engaging with and supporting such firms throughout our operations.

Our firm has consistently prioritized inclusion in our procurement processes by intentionally partnering with small and minority businesses across a wide range of professional services. These partnerships are not only integral to our project delivery, but also help build the capacity of these firms by providing meaningful opportunities for growth, collaboration, and technical advancement. To make sure continued progress is made toward supporting M/WBE goals, we have implemented a comprehensive plan of action centered around the following principles:

**Supplier Diversity Goals:** We establish clear and measurable goals for contracting with small, minority, and women-owned businesses, as well as firms located in labor surplus areas. These goals are integrated into our project planning and team-building strategies.

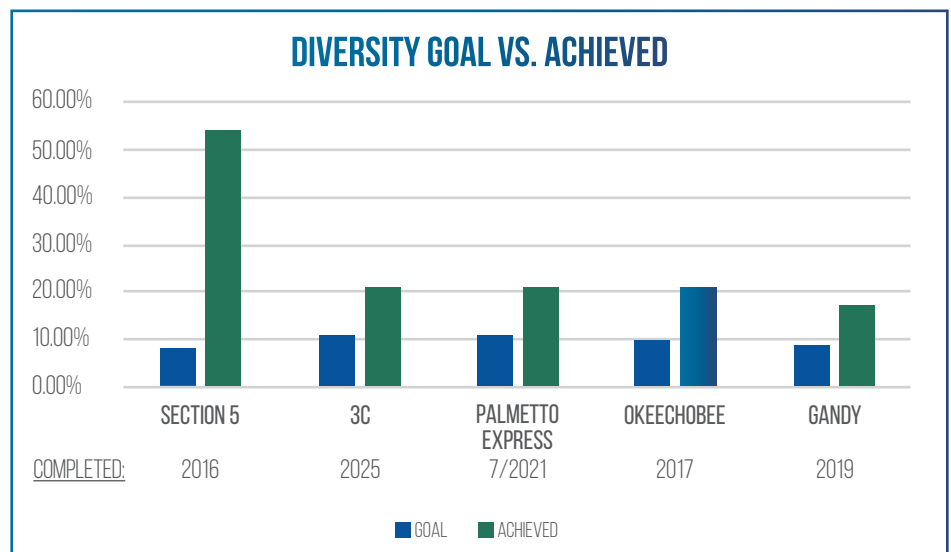
**Outreach and Engagement:** We actively participate in industry conferences, procurement expos, and networking events specifically aimed at connecting with diverse suppliers. Our Team regularly engages with local chambers, small business programs, and M/WBE directories to expand our network of qualified firms.

**Capacity Building and Support:** We are committed to supporting the development of our M/WBE partners by providing technical guidance within our technical parameters. Our goal is to help these firms enhance their competitiveness and build long-term sustainability.

**Inclusive Procurement Policies:** We make sure our internal procurement teams are trained to identify and eliminate barriers that may hinder participation from diverse firms.

**Monitoring and Reporting:** We have instituted a robust tracking and reporting system to monitor our supplier diversity performance. This includes evaluating progress toward our inclusion goals, assessing the impact of our outreach efforts, and maintaining transparency in our outcomes.

Our firm’s approach reflects not only regulatory compliance with Florida Statutes 287.09451 but also a values-driven commitment to equity and opportunity. We believe that building a diverse supply chain strengthens our industry, enriches our communities, and leads to better outcomes for all stakeholders.





# SUBCONSULTANTS

## SUBCONSULTANTS FIRMS PROPOSED TO SUPPORT THIS CONTRACT



**PARSONS** TRANSPORTATION  
GROUP, INC. (PAR)

### SCOPE: GROUP 4, MECHANICAL/ ELECTRICAL/ MOVABLE BRIDGE

Since 1944, Parsons has been involved with many of the foremost transit and capital work programs throughout the United States and the world, employing over 18,000 highly qualified personnel operating from 350 offices in 26 countries. Parsons develops comprehensive transit and intercity rail projects from concept through operation by implementing innovative project delivery mechanisms. The firm offers unrivaled experience leading PD&E studies that have been designed and constructed and are operating as their clients intend. Parsons has more than 60 years of experience for more than 400 clients on rail and transit systems around the world as owners' representatives, designers, and contractors, and for many different rail transit types, including LRT, APM, Metro, regional, commuter and freight rail.



**M.G. VERA**  
& ASSOCIATES  
MANUEL G. VERA &  
ASSOCIATES, INC. (MGV)

### SCOPE: GROUP 8

MGV is a certified Miami-Dade County Local Business and Disadvantaged Business Enterprise with offices in Miami, Jupiter, and Orlando. Since 1977, they have specialized in Survey & Mapping, Subsurface Utility Engineering (SUE), and Utility Coordination, with over 46 years of experience serving Miami-Dade County.

MGV has delivered design surveys, right-of-way control surveys and maps, and SUE services using both traditional and advanced technologies, including 3D LiDAR scanning. Their clients include Miami-Dade Transit, the Greater Miami Expressway Authority, FDOT, and Miami International Airport.

Their staff includes over 80 professionals, with 9 registered Professional Surveyors and Mappers and 19 fully equipped survey/SUE crews—many of whom have built their careers at MGV.



**SMART-SCIENCES**  
Environmental Consulting  
SMART-SCIENCES, INC.  
(SS)

### SCOPE: ENVIRONMENTAL PERMITTING

Smart-Sciences brings specialized environmental permitting and PD&E expertise to the Team, with experience supporting numerous LAP and major transportation projects in FDOT Districts 4 and 6. Their work includes NEPA documentation, permitting for bridge rehabilitations, new roadway alignments, bike paths, and roadway improvements.

Smart-Sciences routinely conducts Benthic Resources Surveys and Essential Fish Habitat (EFH) Assessments for marine projects, ensuring early identification of impacts and proactive agency coordination. Their Team maintains strong working relationships with regulatory agencies including FDEP, SFWMD, FWC, USACE, FWS, and NMFS, streamlining the permitting process for infrastructure projects across South Florida.



**I.F. ROOKS**  
SOLUTIONS THROUGH PHOTOGRAMMETRY  
I.F. ROOKS &  
ASSOCIATES, INC. (IFR)

### SCOPE: PHOTOGRAMMETRY

Celebrating 56 years, I.F. Rooks & Associates is a full-service geospatial firm serving clients throughout the Southeastern United States. They provide a full suite of geospatial services, including Low Altitude Photogrammetry and Aerial LiDAR. IFR is an FDOT Mapping Firm offering an unmatched combination of experience, technical capability, and in-depth knowledge of the district's needs for highly accurate aerial imagery and photogrammetry.

They are pre-qualified by FDOT in Work Group 8.3 – Photogrammetry and have completed mapping projects in every district in the state. IFR has a staff of 16, including one (1) PSM, three (3) Certified Photogrammetrists, one (1) flight crew, and ten (10) photogrammetric technicians, all available to support this project. All work is performed through their office located in Plant City, FL.



**HR ENGINEERING**  
SERVICES, INC. (HRES)

### SCOPE: GEOTECHNICAL ENGINEERING

HR Engineering Services, Inc. is a certified Disadvantaged Business Enterprise (DBE) specializing in geotechnical engineering and construction inspection services. Founded in 1998 and based in Miami, HRES primarily serves public sector clients across South Florida and is prequalified with FDOT and Miami-Dade County in multiple geotechnical and construction-related work groups.

HRES provides geotechnical services including subsurface explorations, foundation and pavement evaluations, slope stability analyses, and retaining wall design. The firm operates its own drilling rigs and maintains an in-house soil testing laboratory. In addition, HRES offers construction materials testing and inspection services, supporting roadway, bridge, and infrastructure projects with a focus on quality assurance and practical engineering solutions.



**INTERA**  
INTERA INCORPORATED  
(INT)

### SCOPE: COASTAL HYDRAULICS/ SCOUR

INTERA Incorporated has over 30 years of experience providing bridge scour and coastal engineering services in support of infrastructure design. Their work includes scour and wave force research, development of design hydraulic and scour parameters, disaster response, and historical storm surge analyses. INTERA has completed bridge hydraulics reports and scour assessments for hundreds of riverine and tidal bridges across Florida and several other states. They also support coastal engineering efforts through permitting, shoreline stabilization, beach nourishment, and resiliency studies for clients such as FDOT, St. Johns County, Volusia County, and the Texas GLO.

## SUBCONSULTANTS FIRMS PROPOSED TO SUPPORT THIS CONTRACT



MEDIA RELATIONS  
GROUP, INC. (MRG)

### SCOPE: PUBLIC INVOLVEMENT

MRG, located in Palmetto Bay, Florida, specializes in public and private sector involvement campaigns, serving as a spokesperson for clients and providing media relations services in both English and Spanish. They also offer marketing and graphic design, organization of business interests, and grassroots door-to-door consensus building. For over 26 years, MRG has developed and executed successful Public Involvement Programs and Community Awareness Plans for agencies such as the Miami-Dade TPO, FDOT, MD-WASD, MDX, Miami-Dade Public Works, and various municipalities and private sector clients.

Their success is built on strong relationships with residents, business owners, government officials, community leaders, and the media, as well as hands-on involvement from senior staff to ensure efficient, on-time, and on-budget execution of client goals.



CONCORR, INC.  
(CI)

### SCOPE: CORROSION TESTING

Founded in 1990, CONCORR, Inc. specializes in addressing durability and corrosion challenges in reinforced concrete structures. The firm has completed research, service life modeling, and consulting projects across the U.S. and internationally, supporting bridge and infrastructure durability. CONCORR developed a leading damage progression model for corrosion and has extensive experience with chloride and carbonation-induced deterioration in marine environments. Their Sterling, VA laboratory performs concrete durability testing to ASTM, AASHTO, and Florida standards. CONCORR also designs, installs, and maintains corrosion mitigation systems, including cathodic protection and electrochemical chloride extraction for bridges and marine structures.



GREENMAN  
-PEDERSEN, INC. (GPI)

### SCOPE: PAINTING, CATHODIC PROTECTION, LEAD BASED PAINT

Founded in 1966, Greenman-Pedersen, Inc. (GPI) is a multi-discipline engineering firm with 1,800 professionals across 55 offices nationwide. GPI provides engineering, design, planning, and construction management services to government agencies, municipalities, and private clients. In Florida, GPI has 22 dedicated professionals supported by 44 additional staff across offices in Orlando, Daytona, Tampa, Jacksonville, and Tallahassee. The Florida Team combines local expertise with national resources to deliver transportation and infrastructure solutions tailored to the state's unique needs.



DADE MOELLER  
& ASSOCIATES, INC. (DM)

### SCOPE: ASBESTOS TESTING

An NV5 Company since 2016, Dade Moeller provides professional consulting services in radiation protection, occupational health and safety, fire protection, and laboratory quality assurance. Their Team of Certified Health Physicists, Industrial Hygienists, and Safety Professionals supports federal agencies, government contractors, and commercial clients nationwide. With over 25 years of industry leadership, Dade Moeller continues its legacy of delivering scientifically grounded, safety-focused solutions, having completed more than 2.7 million OSHA-designated safe work hours. They provide radiation safety, industrial hygiene, NORM/TENORM management, lab audits, and permitting.



JANUS RESEARCH, INC.  
(JR)

### SCOPE: CULTURAL RESOURCES

Janus Research is a Florida-based Cultural Resources Management (CRM) firm with over 44 years of experience serving South Florida. They are experts in navigating federal and state regulations, securing SHPO approvals, and developing mitigation strategies that minimize project delays.

With strong relationships across key agencies and tribal representatives, Janus provides early issue identification and efficient guidance through permitting and compliance. Their flexible, tailored approach ensures alignment with NEPA, Section 106, Chapter 267, F.S., and other relevant standards—keeping projects on track in complex regulatory environments.



MILLER, LEGG &  
ASSOCIATES, INC. (MLA)

### SCOPE: GROUP 15

Miller Legg has provided landscape architecture, hardscape, irrigation and arborist related services for more than 25 years for various municipal, county, and FDOT projects in South Florida including landscape design, resurfacing, complete streets including bicycle/pedestrian improvements, roundabouts, diverging diamond interchanges (DDI), design/build, districtwide and continuing contracts minor project design, PE design, plans review, PD&E and post design.

The firm offers landscape architecture services including planting, hardscape, irrigation, urban design, planning, theming, signage, and construction support.



KIND  
DESIGNS (KDD)

### SCOPE: LIVING SHORELINES

Kind Designs is a Miami-based climate and construction technology company specializing in sustainable coastal infrastructure through advanced concrete 3D-printing. Their multidisciplinary team of engineers, scientists, and designers is focused on protecting Florida's coastlines with environmentally beneficial, regulatory-compliant solutions. The firm developed the world's first 3D-printed Living Seawall panels, engineered to enhance structural resilience, support marine biodiversity, and improve water quality. Recognized across public and private sectors, Kind Designs partners with municipalities and engineers to deliver scalable solutions that benefit communities and ecosystems.

An aerial photograph of a waterfront area. On the left, there is a dark body of water with a wooden dock extending into it. The dock has several pilings and some equipment on it. To the right of the dock is a concrete sidewalk and a road. A white car is parked on the road. There are several large green trees on the right side of the road. The overall scene is a mix of natural and man-made elements.

# 10 REQUIRED FORMS

**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) BCC Engineering, LLC EIN (Optional): 65-0540100

Address: 4901 NW 17<sup>th</sup> Way, Suite 506

City: Fort Lauderdale State: FL Zip: 33309

Telephone No.: 954.928.1828 FAX No.: 305.670.2351 Email: vherrera@bcceng.com

Delivery: Calendar days after receipt of Purchase Order (**section 1.02 of General Conditions**): \_\_\_\_\_

Total Bid Discount (**section 1.05 of General Conditions**): \_\_\_\_\_

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
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____

**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.

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:

Victor H. Herrera, PE

Name (printed)

5/21/2025

Date



Signature

Senior Vice President

Title



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)  
8/8/2023

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

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


<b>PRODUCER</b> Greyling Ins Brokerage/EPIC 3780 Mansell Rd. Suite 370 Alpharetta GA 30022	<b>CONTACT NAME:</b> Mitchell Walck <b>PHONE (A/C No. Ext):</b> 470.582.9324 <b>E-MAIL ADDRESS:</b> greylingcerts@greyling.com	<b>FAX (A/C No.):</b> 470.582.9324
	<b>INSURER(S) AFFORDING COVERAGE</b>	
<b>INSURED</b> BCC Engineering, LLC 6401 SW 87th Avenue, Suite 200 Miami, FL 33173	<b>INSURER A:</b> The Continental Insurance Company <b>NAIC #</b> 35289	
	<b>INSURER B:</b> National Fire Insurance Co of Hartford      20478	
	<b>INSURER C:</b> Valley Forge Insurance Company      20508	
	<b>INSURER D:</b> Endurance American Specialty Ins Co      41718	
	<b>INSURER E:</b> Transportation Insurance Company      20494	
	<b>INSURER F:</b>	

**COVERAGES**      **CERTIFICATE NUMBER:** 174058880      **REVISION NUMBER:**

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

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:	Y		7034261643	8/14/2023	8/14/2024	EACH OCCURRENCE	\$ 1,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
							MED EXP (Any one person)	\$ 15,000
							PERSONAL & ADV INJURY	\$ 1,000,000
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
B	<input checked="" type="checkbox"/> <b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y		7034261688	8/14/2023	8/14/2024	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
							BODILY INJURY (Per person)	\$
							BODILY INJURY (Per accident)	\$
							PROPERTY DAMAGE (Per accident)	\$
								\$
A	<input checked="" type="checkbox"/> <b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	Y		7034261707	8/14/2023	8/14/2024	EACH OCCURRENCE	\$ 5,000,000
							AGGREGATE	\$ 5,000,000
								\$
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	7034261657 7034261660	8/14/2023 8/14/2023	8/14/2024 8/14/2024	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
							E.L. EACH ACCIDENT	\$ 1,000,000
							E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
D	Professional Liab incl. Pollution			DPL3002354071	8/14/2023	8/14/2024	Per Claim Aggregate	2,000,000 2,000,000

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

<b>CERTIFICATE HOLDER</b>  Sample Certificate	<b>CANCELLATION</b>  SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 

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ACORD 25 (2016/03)

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CAM #26-0608

**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: Victor H. Herrera, PE Title: Senior Vice President Entity: BCC Engineering, LLC

Signature:  Date: 5/13/2025

**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 13<sup>th</sup> day of May 2025, by Victor H. Herrera, PE, as

Senior Vice President for BCC Engineering, LLC, who is

personally known to me or who has produced \_\_\_\_\_

Notary Public Signature: 

Print Name: Sally E. Perez



(Notary Seal)

My commission expires: 8/11/2028

**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:** BCC Engineering, LLC

CLIENT NO. 1 – Name of firm to be contacted: City of Fort Lauderdale

Address: 949 NW 38th St, Fort Lauderdale, FL 33309

Contact Person: Raymond Nazaire, PE

Phone No: 954.828.5000

Contact E-Mail Address: rnazaire@fortlauderdale.gov

Project Performance Period: 4/2016 to 12/2025  
Dates should be in mm/yy format

Project Name: Continuing Services Structures Contract

Location of Project: Continuing Services Structures Contract

Description of the overall scope: Under this ongoing contract, BCC provides structural engineering services for City-owned assets including bridges, seawalls, and facilities. Task orders include inspections, evaluations, and design of new and rehabilitated structures. BCC was selected as a large-sized firm, qualified for projects up to \$2 million.

Description of work that was self-performed by Bidder: BCC self-performed structural inspections, condition assessments, structural evaluations, master planning, design of new and rehabilitated structures, preparation of design criteria packages, cost estimating, and construction support services.

**SPECIFIC REFERENCES FORM**

CLIENT NO. 2 – Name of firm to be contacted: City of Miami Beach

Address: 1700 Convention Center Drive, Miami Beach, FL 33139

Contact Person: Matthew LePera, PE

Phone No: 305.673.7000

Contact E-Mail Address: MatthewLePera@miamibeachfl.gov

Project Performance Period: 9/2010 to 12/2025  
Dates should be in mm/yy format

Project Name: Professional Architectural and Engineering Services

Location of Project: Miami Beach, FL

Description of the overall scope: Under the City of Miami Beach’s continuing A&E contract, BCC has delivered task orders for seawall assessment, design, permitting, and construction support. Key projects include emergency seawall replacement at the Fleet Management Facility and ongoing seawall replacements at 48th Street and 29th Street.

Description of work that was self-performed by Bidder: BCC self-performed planning, structural and civil design, permitting, geotechnical coordination, benthic survey coordination, bidding support, construction administration, and CEI services.

**SPECIFIC REFERENCES FORM**

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

Address: 1761 12th St, Sarasota, FL 34236

Contact Person: Nikesh Patel

Phone No: 941.263.6132

Contact E-Mail Address: nikesh.patel@sarasotafl.gov

Project Performance Period: 3/2022 to 12/2027  
Dates should be in mm/yy format

Project Name: Continuing Services Structures Contract

Location of Project: Sarasota County, FL

Description of the overall scope: Ongoing structural services contract with the City of Sarasota, providing bridge and culvert inspections, rehabilitation design, permitting, load ratings, and construction support for city-wide infrastructure needs.

Description of work that was self-performed by Bidder: BCC self-performed structural inspections, non-destructive testing, load rating evaluations, structural design, preparation of construction documents, permitting support, maintenance planning, post-design services (including RFIs and submittal reviews), and limited construction-phase monitoring.



**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

BCC Engineering, LLC

Company Name

Victor H. Herrera, PE

Name (Printed)

Signature

Senior Vice President

Title

05/21/2025

Date



## **E-VERIFY AFFIRMATION STATEMENT**

Solicitation/Bid /Contract No: RFQ/ Event #449

Project Description:

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

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

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

Contractor/Proposer/ Bidder Company Name: BCC Engineering, LLC

Authorized Company Person's Signature:  | Victor H. Herrera, PE

Authorized Company Person's Title: Senior Vice President

Date: 5/21/25



**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
_____	_____
_____	_____
_____	_____

**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

Victor H. Herrera, PE

Name (Printed)

Senior Vice President

Title

5/21/25

Date

Rev 09-2022



**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.

\_\_\_\_\_  
Authorized Signature

Victor H. Herrera, PE | Senior Vice President

\_\_\_\_\_  
Print Name and Title

5/21/25

\_\_\_\_\_  
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_lauderdale/codes/code_of_ordinances?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.

BCC Engineering, LLC
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.

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: BCC Engineering, LLC

AUTHORIZED COMPANY PERSON: Victor H. Herrera, PE
PRINT NAME

SIGNATURE

5/21/2025
DATE



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-1301527 Business Name: BCC ENGINEERING LLC

Business Address: 4901 NW 17 WAY # 506

JOSE A MUNOZ  
BCC ENGINEERING LLC  
4901 NW 17 WAY # 506  
FORT LAUDERDALE FL 33309

TAX CATEGORIES

418300 PROFESSIONAL OFC (ADMINISTRATION)

Contact: MUNOZ, JOSE A  
Business Email: Vaymerich@Bcceng.Com

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

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

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





## **DISADVANTAGED BUSINESS ENTERPRISE (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.

\_\_\_\_\_  
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.

BCC Engineering, LLC  
Business Name

BIDDER'S COMPANY: **BCC Engineering, LLC**

AUTHORIZED COMPANY PERSON: Victor H. Herrera, PE  
PRINT NAME

  
SIGNATURE

5/21/2025  
DATE



**GETTING THERE  
JUST GOT EASIER™**