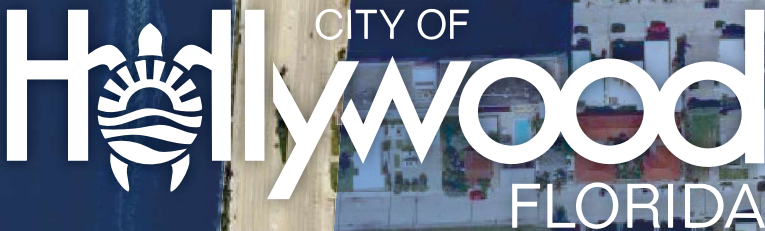
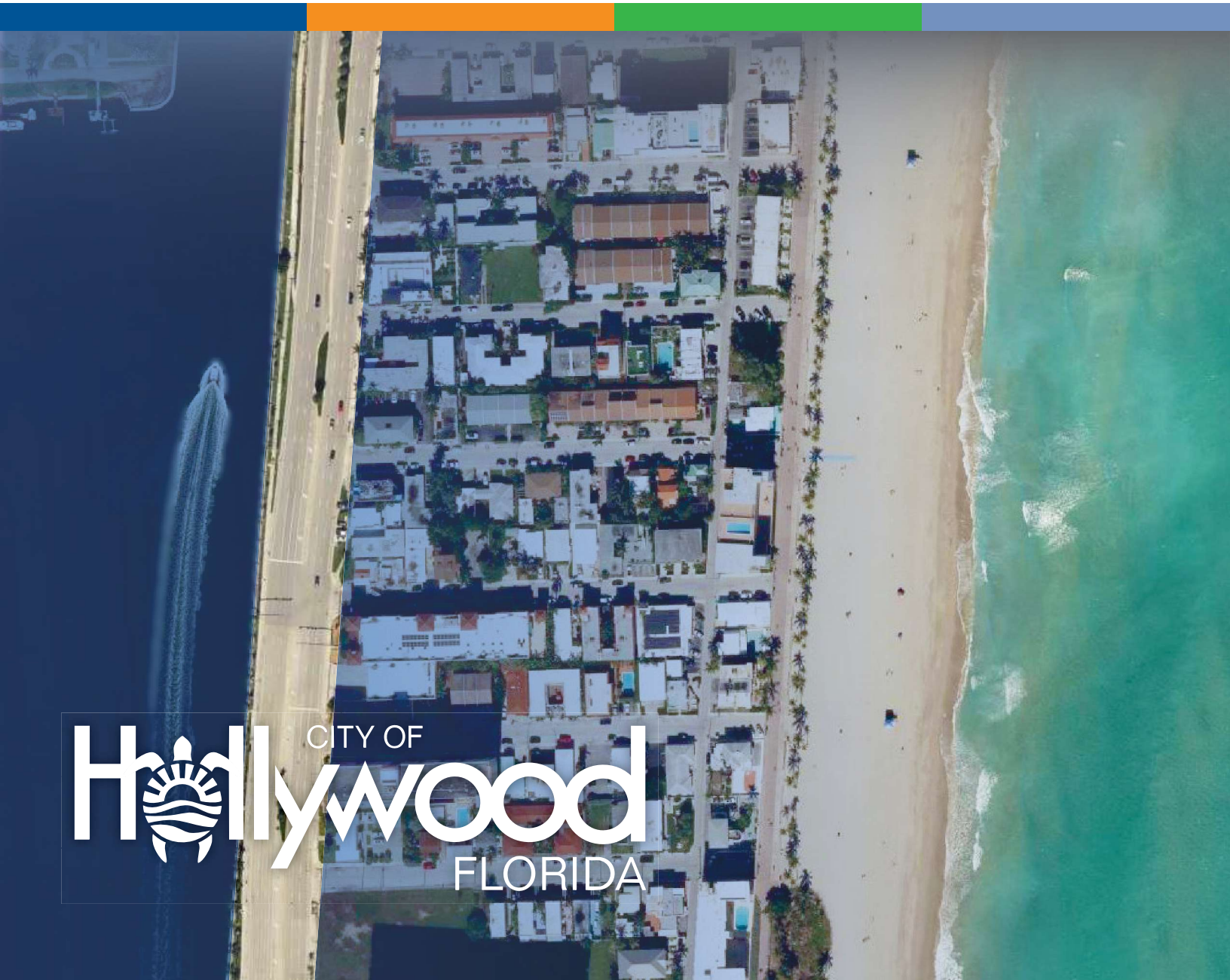




REQUEST FOR QUALIFICATION 365-26-JJ  
FOR THE CITY OF HOLLYWOOD | COMMUNITY REDEVELOPMENT AGENCY

# ENGINEERING SERVICES FOR ***STORMWATER PUMP STATION # 16*** JACKSON TO JEFFERSON STREET ALONG A1A



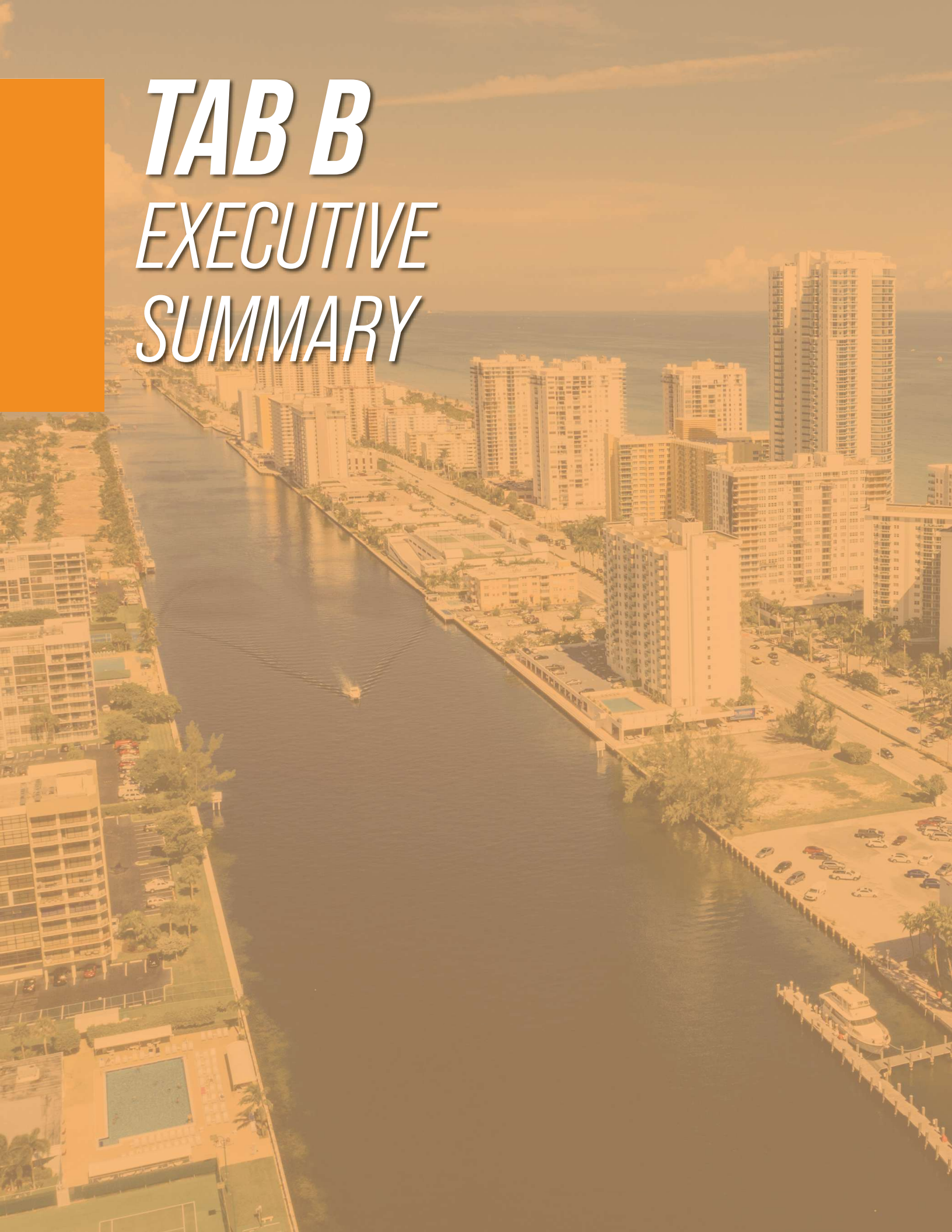
# ***TAB A***

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## **TAB A: TABLE OF CONTENTS**

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An aerial photograph of a coastal city, likely Miami, featuring a wide canal that runs through the center. On both sides of the canal are numerous high-rise apartment buildings and residential complexes. The water in the canal is dark, and a small boat is visible in the middle. The sky is a hazy, golden-brown color, suggesting a sunset or sunrise. In the bottom right corner, there is a dock with several boats moored. The overall scene is a dense urban environment with a strong waterfront focus.

# ***TAB B***

## ***EXECUTIVE***

### ***SUMMARY***

## TAB B: EXECUTIVE SUMMARY

### BUSINESS ENTITY AND BACKGROUND

BCC Engineering, LLC (BCC) is pleased to submit our qualifications to provide Professional Engineering Services to the City of Hollywood. BCC is a limited liability company that was established in 1994 as a Florida firm. Since that time, the firm has diligently worked to meet the needs of our private and public sector clients. BCC specializes in providing planning, design, and construction management services for civil, environmental, structural, site development, traffic engineering, multi-modal transit, complete streets, and highway engineering projects.

In 2024, BCC Engineering was acquired by **Parsons Corporation** – a global leader in engineering, technology, and infrastructure services – expanding our capabilities and resources while preserving our strong local presence and client commitment. This strategic integration brings additional depth in technical expertise, advanced analytical tools, and global best practices, ensuring even greater value, resilience, and delivery excellence for this contract. As part of Parsons, BCC now benefits from enhanced access to specialized disciplines including coastal engineering, resiliency planning, digital asset management, and disaster response expertise, all while maintaining the same project team, local knowledge, and responsiveness that our clients have relied upon for decades.

The firm's principals and senior engineers bring a wealth of experience having worked on major building, infrastructure, and transportation projects. That experience has led to the company's growth in providing professional services in traditional and alternative delivery methods. An excellent working relationship with our clients and the regulatory agencies has afforded BCC Engineering – now strengthened by Parsons' global platform – the opportunity to continuously work on interesting and challenging projects.

### BUSINESS MAIN OFFICES AND OFFICE LOCATION THAT WILL SERVE THIS CONTRACT

BCC has been recognized among the fastest growing engineering firms in the Southeast US – our 10 self-reliant offices are strategically located to serve our clients (Ft. Lauderdale, Miami, CEI Miami Field Office, Orlando, Tampa, Tallahassee, Panama City, Maitland, Georgia, Texas).

This contract will be primarily served out of our Miami office located at 6401 SW 87th Avenue, Suite 200, Miami, FL 33173, which is within a 30-minute drive from the City Offices, with support from our office in Broward County. Our South Florida offices focus on serving the Tri-County market, including Miami-Dade County, Broward County, and multiple municipal clients in the region. Additionally, we have been serving FDOT District 6 and District 4 for well over 25 years.

The primary contact for this contract will be Alfred Lurigados, PE. [alurigados@bcceng.com](mailto:alurigados@bcceng.com), 305-670-2350.



An aerial photograph of a city waterfront. A wide canal runs through the center, with a small boat moving through the water. On both sides of the canal are modern high-rise apartment buildings and commercial structures. In the foreground, there are parking lots with several cars, a swimming pool, and a tennis court. The background shows the ocean and a clear blue sky.

# *TAB C*

## *FIRM QUALIFICATIONS AND EXPERIENCE*

## TAB C: FIRM QUALIFICATIONS AND EXPERIENCE

### RELEVANT LICENSES AND CERTIFICATIONS

Name	License #	Expiration Date
BCC Engineering, LLC	Florida Registry No. 7184	2/28/2027
Keith & Associates INC.	Surveyor Business License No. LB6860	2/28/2027
Parsons Transportation Group INC. (PSN)	FEIN: 36-0982270	2/28/2027
Professional Service Industries, INC. (PSI)	Florida Registry No. 3684	2/28/2027
Keith & Associates INC	Surveyor of Record License No. LS4105	2/28/2027
RES Florida Consulting, LLC (RES)	FEIN: 59-3667002	2/28/2027
Delta Consultants, LLC	FEIN: 37-1999359	2/28/2027

Name	License #	Expiration Date
Ariel Millan, PE	Florida PE No. 54572	2/28/2027
Alfred Lurigados, PE	Florida PE No. 58098	2/28/2027
Lazaro Ferrero, PE	Florida PE No. 58025	2/28/2027
Steven Goldstein, PE, SECB, SI	Florida PE No. 44423	2/28/2027
Christian Aquino, PE	Florida PE No. 74647	2/28/2027
Jean Rodriguez, PE	Florida PE No. 98401	2/28/2027
Yairen Sotolongo Gabieras, PE	Florida PE No. 98381	2/28/2027
Jean Pierre Valle, PE	Florida PE No. 99390	2/28/2027
Michelle Brioso Rossi, PE	Florida PE No. 84564	2/28/2027
Hendric Mendez, PE	Florida PE No. 85282	2/28/2027
Luis Ochotorena, PE	Florida PE No. 103463	2/28/2027

## TAB C: FIRM QUALIFICATIONS AND EXPERIENCE

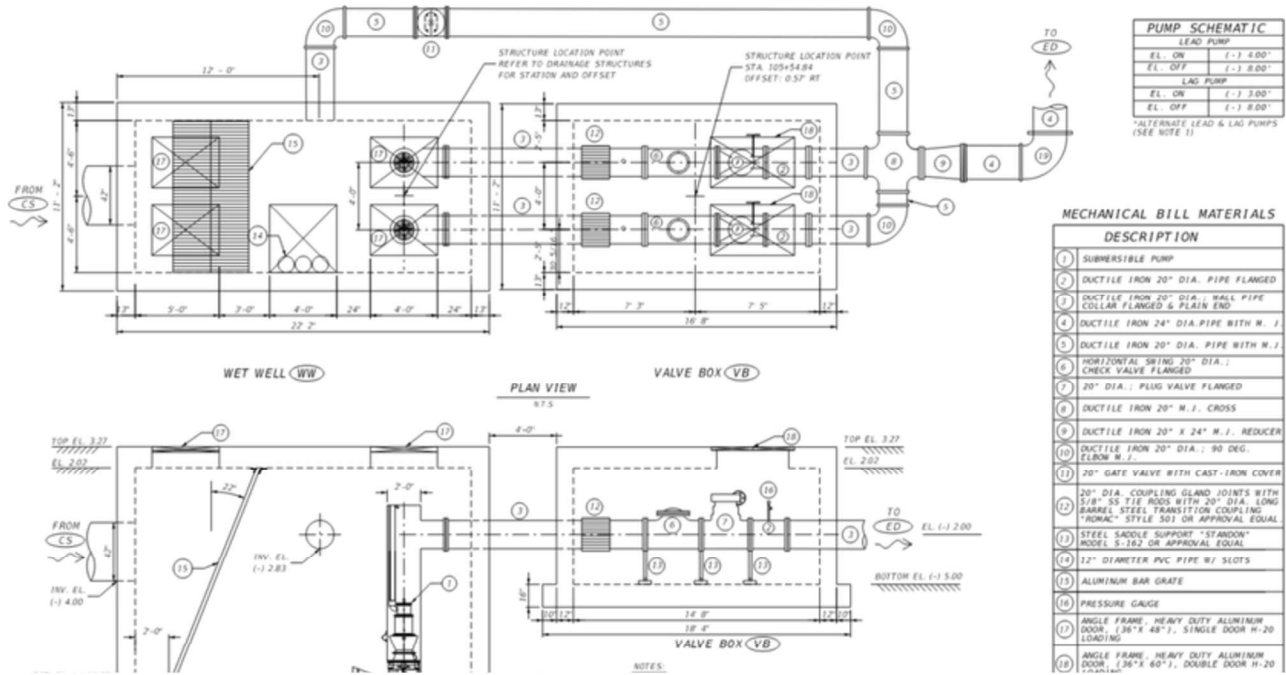
### RELEVANT LICENSES AND CERTIFICATIONS

Name	License #	Expiration Date
William Garcia, PE	Florida PE No. 56781	2/28/2027
Chuck Schramm, PSM (KEITH)	Florida PLS No. LS5366	2/28/2027
Eduardo A. Vega, PE (DELTA)	Florida PE No. 42109	2/28/2027
Mariana Evora, PE (DELTA)	Florida PE No. 86167	2/28/2027
Jose N. Gomez, PE, D.GE, F.ASCE (PSI)	Florida PE No. 78289	2/28/2027
Courtland Alvies, PE (PSI)	Florida PE No. 93388	2/28/2027
Bryan Merritt, PSM (KEITH)	Florida PLS No. LS6558	2/28/2027
Alex Gari, PE (PSN)	Florida PE No. 79281	2/28/2027
Mony Manoyorine, PE (PSN)	Florida PE No. 62571	2/28/2027
Emily Powell, M.S. (RES)	Professional Wetland Scientist No. 3913	10/15/2029

**TAB C: FIRM QUALIFICATIONS AND EXPERIENCE**

**CITY OF HOLLYWOOD STORMWATER PUMP STATION ANALYSIS  
AND DESIGN FOR DRAINAGE SYSTEMS BETWEEN IRIS TERRACE AND  
HOLLYWOOD BOULEVARD**

Broward County, FL



Discipline:  
**Civil Engineering**

Reference for: BBC Engineering, LLC  
 Dates of Construction: 03/2024 to 07/2025  
 Client: City of Hollywood  
 Client Reference Name: Hugo Davalos, PE  
 Client Address: Hollywood, FL  
 Client Number: (954) 921 3930 ext. 5608  
 Client E-mail: hdavalos@hollywoodFL.org

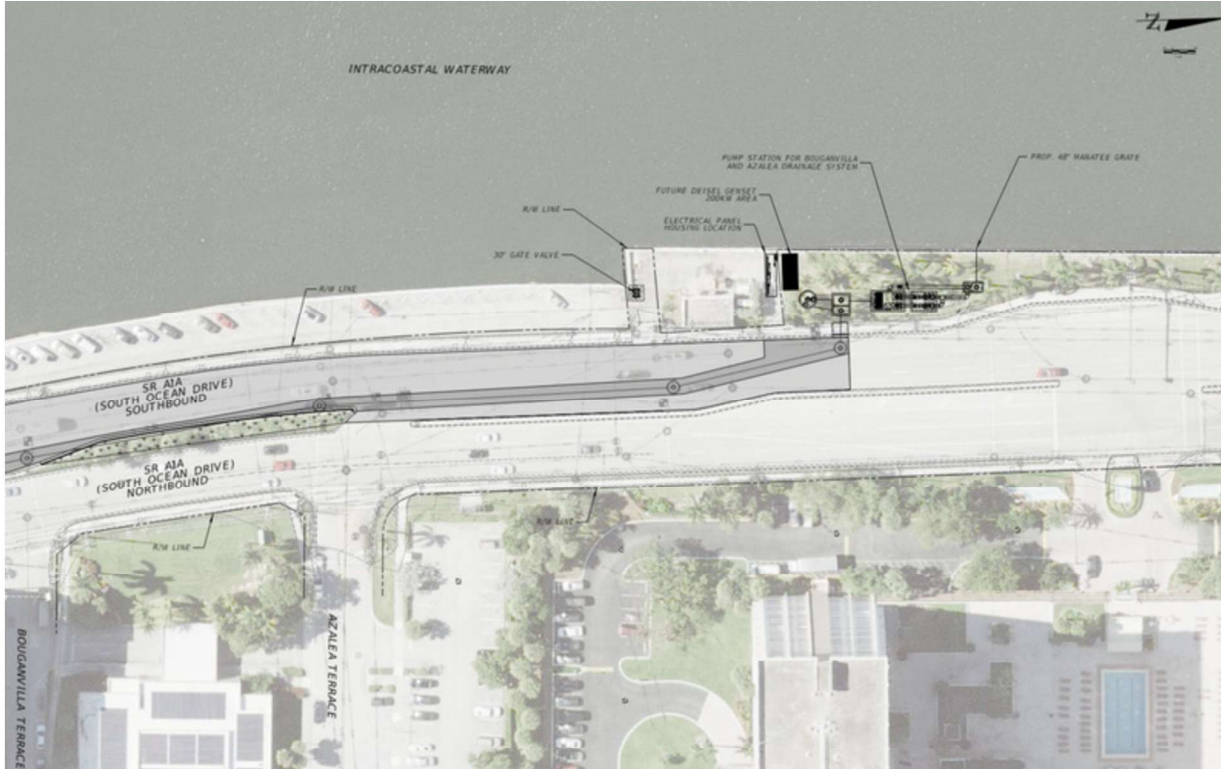
-  On Time
-  On Budget

**Overall scope and scope of work self-performed by BCC Engineering, LLC:** This project requires the analysis, design, permitting, and bid support services for a stormwater pump station to address drainage improvements between Iris Terrace and Hollywood Boulevard, specifically for the areas between Iris Terrace and Daffodil Terrace. The Florida Department of Transportation (FDOT) is designing two stormwater pump stations to manage flooding along State Road (SR) A1A and adjacent city areas, with Pump Station No. 1 covering the Azalea Drainage System (from Eucalyptus Terrace to Jefferson Street) and Pump Station No. 2 covering the Van Buren Drainage System (from Jackson Street to the end of the northbound Hollywood Blvd off-ramp). The areas between these two stations, as well as the area south of Pump Station No. 1 (south of Iris Terrace), are not included in the FDOT improvements and comprise four separate drainage systems with outfalls to the Intracoastal Waterway. The City requested FDOT to interconnect System 4 to the Azalea Drainage System, but FDOT declined due to potential schedule impacts and grant jeopardy. Consequently, the City engaged BCC to perform a basis of design report (BODR) to evaluate alternatives for enhancing flood protection for Systems 1 through 4 and to design the recommended improvements for System 4 as outlined in the BODR.

## TAB C: FIRM QUALIFICATIONS AND EXPERIENCE

### D4 CONTINUING SERVICES DESIGN CONSULTANT: SR A1A FROM BOUGANVILLE TERR TO HARRISON ST-PUMP STATIONS

Broward County, FL



Discipline:

**Civil Engineering**

Reference for: BBC Engineering, LLC

Dates of Construction: 08/2022 to Ongoing

Client: FDOT District 4

Client Reference Name: Brad Salisbury

Client Address: Ft. Lauderdale, FL

Client Number: (954) 111 4625

Client E-mail: Brad.Salisbury@dot.state.fl.us

**Overall scope and scope of work self-performed by BCC Engineering, LLC:** This project involves providing design services for Pump Station - SRA1A from Bouganville Terrace to Harrison Street in Broward County. Design services of drainage improvements that would alleviate the flooding in low lying areas subject to high tide conditions along SR A1A with the use of two (2) stormwater pump stations and all associated features. Additional scope of work includes roadway design for restoration of impacted roadway elements, temporary traffic control design, utility coordination, permitting, structural design of pump station features, sea walls & temporary sheet-piling and electrical design of the pump station features.

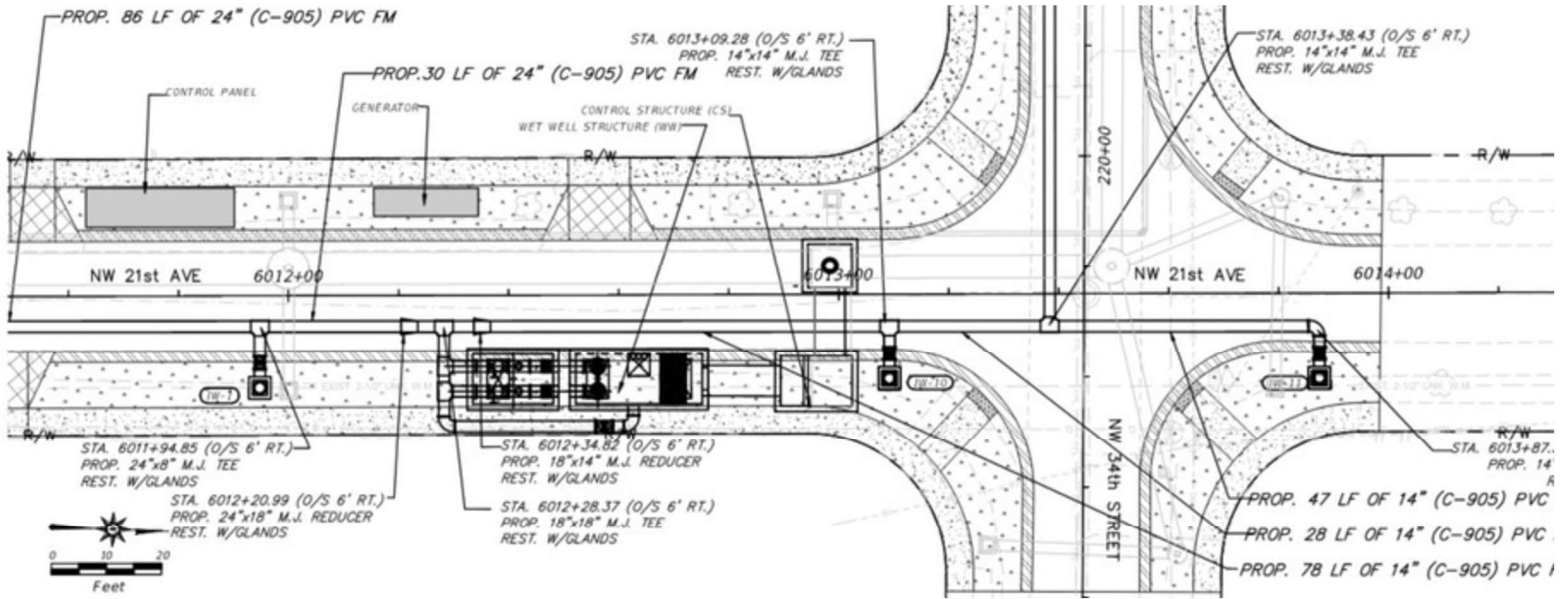
✔ On Time

✔ On Budget

**TAB C: FIRM QUALIFICATIONS AND EXPERIENCE**

**CITY OF MIAMI MELROSE FLOOD IMPROVEMENTS PHASE I**

**Miami-Dade County, FL**



**Discipline:**

**Civil Engineering**

**Reference for:** BBC Engineering, LLC

**Dates of Construction:** 12/2024 to 06/2026

**Client:** City of Miami, FL

**Client Reference Name:** Clara Sidan

**Client Address:** Miami, FL

**Client Number:** (305) 416 1200

**Client E-mail:** csidan@miamigov.com

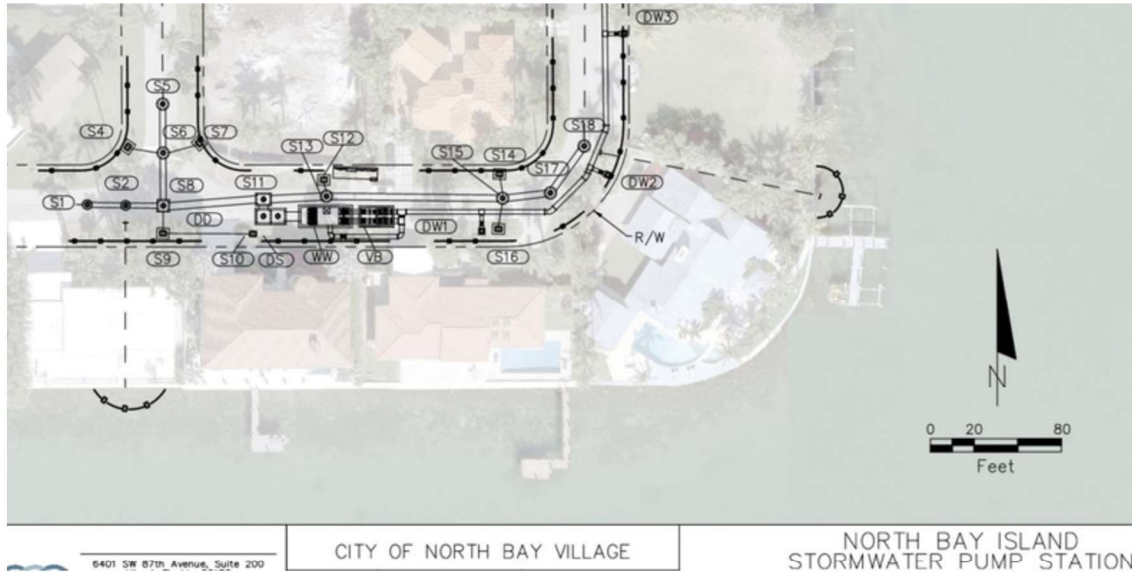
- On Time
- On Budget

**Overall scope and scope of work self-performed by BCC Engineering, LLC:** The project focuses on implementing enhancements from the SWMP dated July 16, 2021, to mitigate flooding in Basin 65, Area C6-01, Sheet B-65, and develop cost-effective stormwater improvement strategies. Tasks include roadway reconstruction, milling and resurfacing, overbuild, drainage upgrades, sidewalks, ADA-compliant ramps, curbs/gutters, driveway approaches, pavement markings, and signage. The drainage system will feature new and upsized stormwater inlets and pipes, a new pump station, and injection drainage wells.

## TAB C: FIRM QUALIFICATIONS AND EXPERIENCE

# NORTH BAY VILLAGE STORMWATER PUMP STATION ASSESSMENT AND DESIGN

Miami-Dade County, FL



**Discipline:**

**Civil Engineering**

**Reference for:** BBC Engineering, LLC

**Dates of Construction:** 2021 to Present

**Client:** North Bay Village, FL

**Client Reference Name:** Frank Rollason, Village Manager

**Client Address:** North Bay Village, FL

**Client Number:** (305) 756 7171

**Client E-mail:** VillageManager@nbvillage.com

✔ On Time

✔ On Budget

**Overall scope and scope of work self-performed by BCC Engineering, LLC:** BCC is providing design services for alleviating flooding conditions that have been observed within the southeast bounds of North Bay Island, located within North Bay Village. The project included the collection and review of pertaining survey information, Geographic Information Systems (GIS) data, storm sewer record drawings and drainage well completion reports, to facilitate the development of an integrated one-dimensional (1D)/two-dimensional (2D) ICPRv4 hydrologic & hydraulic (H&H) model. The stormwater model covers an area of approximately 44-acres and served as the primary analysis tool to evaluate the existing stormwater management system. In turn, the model was modified to incorporate and evaluate three (3) design concepts to address the documented drainage deficiencies. The model development effort and results of the evaluation were summarized in a Basis of Design Report (BODR) which discussed the pre-and post-development drainage conditions, while elaborating upon the benefits and disadvantages of each alternative. The BODR also highlighted the considerations and design requirements for project implementation and provided conceptual schematics for each alternative. Following the evaluation phase, BCC will develop 60%, 90% and 100% design documents for the construction of the proposed improvements. In addition, BCC will be coordinating necessary permitting efforts with applicable regulatory agencies, such as FDEP and D-RER, while managing any necessary relocations with applicable private utilities.

## TAB C: FIRM QUALIFICATIONS AND EXPERIENCE

### **SOUTH ROOSEVELT BLVD. SR-A1A FROM MP. 0.000 TO MP. 0.977 STORMWATER PUMP STATION DESIGN**

**Miami-Dade County, FL**



**Discipline:**

**Civil Engineering**

**Reference for:** BBC Engineering, LLC

**Dates of Construction:** 2020 to Ongoing

**Client:** FDOT District 6

**Client Reference Name:** Joaquin De la Cruz

**Client Address:** Monroe County, FL

**Client Number:** (305) 470 5258

**Client E-mail:** Joaquin.DelaCruz@dot.state.fl.us

✔ On Time

✔ On Budget

**Overall scope and scope of work self-performed by BCC Engineering, LLC:** South Roosevelt Blvd./State Road A1A (the Project) is the southernmost state-designated highway of the United States. It directly fronts the Atlantic Ocean on the south, hotels/apartments to the north, and is designated the Atlantic 1 Alternate (A1A) Scenic and Historic Coastal Highway. The project scope includes milling, overbuild and resurfacing, reconstruction of the promenade, three new pedestrians crossing with HAWK, the addition of retaining wall at two locations where none currently exists, and upgrade signing and pavement markings. Mr. Vazquez is the Engineer of Record for the stormwater management and drainage design for this project. The stormwater management system will include a stormwater pump station with a vortex pollution control structure downstream of the pump station and drainage injection wells downstream of the pump station with an emergency bypass structure. The pump station will have a diesel emergency generator on an elevated platform.

An aerial photograph of a city waterfront, likely Miami, showing a wide canal or river. On the left side, there are several multi-story apartment buildings with balconies, a swimming pool, and a tennis court. On the right side, there are more high-rise buildings, a parking lot with many cars, and a dock with a boat. The water is dark blue, and a small boat is visible in the middle of the canal. The sky is clear and blue. The text is overlaid on the top left of the image.

# ***TAB D***

## ***ORGANIZATIONAL PROFILE AND PROJECT TEAM QUALIFICATIONS***

**TAB D: ORGANIZATIONAL CHART**



**SUPPORTING SERVICES**

ELECTRICAL & MECHANICAL - PARSONS

SURVEY & SUE - KEITH

GEOTECHNICAL - PSI

QUALITY CONTROL QUALITY ASSURANCE & EASEMENT - DELTA

ENVIRONMENTAL - RES

## Jean Rodriguez, PE

Civil Project Manager

Mr. Rodriguez is a Civil Engineer with more than 8 years of experience specializing in heavy construction management, field operations supervision, and owner/subcontractor relations, with a strong focus on infrastructure projects including substructure, superstructure, precast yard operations, drainage, utility installation, and demolition. His engineering expertise covers excavation, formwork, concrete pours, post-tensioning systems, grouting, and flexible filler applications. Additionally, Mr. Rodriguez provides detailed cost estimating services for municipalities across Florida, leveraging his hands-on construction experience and knowledge of local market conditions to develop accurate, comprehensive budget projections. His ability to integrate field insights with engineering design and cost analysis ensures municipalities receive reliable estimates to support project planning, funding, and execution.

### Project Experience

**City of Hollywood Stormwater Pump Station Analysis and Design for Drainage Systems between Iris Terrace and Hollywood Boulevard; Hollywood, FL; Client: City of Hollywood; Reference: Hugo Davalos, PE; (954) 921 3930 ext. 5608; hdavalos@hollywoodFL.org; Project Duration: 3/25/2024 to 7/4/2025** – This project requires the analysis, design, permitting, and bid support services for a stormwater pump station to address drainage improvements between Iris Terrace and Hollywood Boulevard, specifically for the areas between Iris Terrace and Daffodil Terrace. The Florida Department of Transportation (FDOT) is designing two stormwater pump stations to manage flooding along State Road (SR) A1A and adjacent city areas, with Pump Station No. 1 covering the Azalea Drainage System (from Eucalyptus Terrace to Jefferson Street) and Pump Station No. 2 covering the Van Buren Drainage System (from Jackson Street to the northbound Hollywood Blvd off-ramp). The areas between these two stations, as well as the area south of Pump Station No. 1 (south of Iris Terrace), are not included in the FDOT improvements and comprise four separate drainage systems with outfalls to the Intracoastal Waterway. The City requested FDOT to interconnect System 4 to the Azalea Drainage System, but FDOT declined due to potential schedule impacts and grant jeopardy. Consequently, the City engaged BCC to perform a basis of design report (BODR) to evaluate alternatives for enhancing flood protection for Systems 1 through 4 and to design the improvements for System 4 as outlined in the BODR. Project Role: Project Manager.

**North Bay Village Stormwater Pump Station Assessment and Design, North Bay Village, FL; Client: North Bay Village, FL; Reference: Frank Rollason, Village Manager, (305) 756-7171, VillageManager@nbvillage.com; Project Duration: 2021 to Present** – BCC is providing design services for alleviating flooding conditions that have been observed within the southeast bounds of North Bay Island, located within North Bay Village. The project included the collection and review of pertaining survey information, Geographic Information Systems (GIS) data, storm sewer record drawings and drainage well completion reports, to facilitate the development of an integrated one-dimensional (1D)/two-dimensional (2D) ICPRv4 hydrologic & hydraulic (H&H) model. The stormwater model covers an area of approximately 44-acres and served as the primary analysis tool to evaluate the existing stormwater management system. In turn, the model was modified to incorporate and evaluate three (3) design concepts to address the documented drainage deficiencies. The model development effort and results of the evaluation were summarized in a Basis of Design Report (BODR) which discussed the pre-and post-development drainage conditions, while elaborating upon the benefits and disadvantages of each alternative. The BODR also highlighted the considerations and design requirements for project implementation and provided conceptual schematics for each alternative. Following the evaluation phase, BCC will develop 60%, 90% and 100% design documents for the construction of the proposed improvements. In addition, BCC will be coordinating necessary permitting efforts with applicable regulatory agencies, such as FDEP and D-RER, while managing any necessary relocations with applicable private utilities. Project Role: Associate Project Manager, Quality Control and PEER Review.

**Village of Pinecrest GEC; Village of Pinecrest, FL; Client: Village of Pinecrest; Reference: David Mendez, (305) 234-2116, dmendez@pinecrest-fl.gov; Project Duration: 05/2022 to Present** - With this project BCC is able to update the Village's Stormwater Master Plan without going through a formal solicitation. It also allows BCC to help analyze and design stormwater improvement projects to address projected sea level rise and help the Village become more resilient. BCC is tasked with the full spectrum of drainage analysis and design projects to help the Village address areas prone to flooding and the projected future sea-level rise conditions. The significance of this project is that it highlights and expands BCC's expertise in the public drainage and water resources engineering sectors. Project Role: Civil Engineer Designer, CEI.



**Years of Experience**  
8

**Years working with BCC**  
Since 2022

**Years of Post Registration Experience**  
1

**Education**  
BS in Civil Engineering, 2020  
Florida International University

**Career Highlights**  
AutoCAD  
Bluebeam  
Mathcad  
3D Lift Plan  
MySQL  
PowerBI

**Certifications/Training**  
SWPPP Inspector

**Memberships**  
ASCE  
CAACE  
FES

**Registration**  
Professional Engineer  
Florida No. 98401, 2024



a **PARSONS** Company

## Alfred Lurigados, PE

Senior Vice President

Mr. Lurigados has over 30 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.

### Project Experience

**Miami-Dade County Transportation Planning Organization General Planning Consultant VIII (Project E21-TPO-01); Miami-Dade County, FL; Client: Miami-Dade County Transportation Planning Organization (TPO); Reference: Maria Teresita Vilches-Landa, (305) 375-2069; Maria.Vilches@miamidade.gov; Design Amount: Varies; Project Duration: 2022 to Ongoing.** This contract is a task authorization-based contract for any planning studies and General TPO tasks. Project Role: Contract Manager.

**Accelerated Start Project Segment A I-4 (SR 400) from East of US 27 to West of SR 429; Celebration, FL; Client: Florida Department of Transportation Corridors Program Office; Reference: Keith Slater, PE, (850) 414 4305, Keith.Slater@dot.state.fl.us; Length: 4.2 miles; Construction Costs: \$159 million; Project Duration: 10/2024 to Ongoing** – 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 and setting a new standard for future FDOT projects. Project Role: Traffic Operations Review

**Miami-Dade County Public Schools Speed Detection System; Miami-Dade County, FL; Client: RedSpeed USA; Reference: Robert Liberman, (630) 329-9856; Robert.Liberman@redspeed.com; Design Amount: Varies; Project Duration: 03/2024 to Ongoing** – 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. This survey scope is derived with the intention of performing the necessary survey tasks to gather sufficient survey data to complete a Topographic Survey (2D) along the school zones corridor at each school. Permitting will be completed through Miami-Dade County DTPW and FDOT as needed. Project Role: Project Principal.

**Miami-Dade County Department of Transportation and Public Works Professional Services (CIP215-DTPW19-DE; ISD Project E19-DTPW-11); Miami-Dade County, FL; Client: Miami-Dade County Department of Transportation of Public Works (DTPW); Reference: Maria Elisa Colmenares, (786) 469-5394; MariaElisa.Colmenares@miamidade.gov; Design Amount: Varies; Project Duration: 2022 to 2027 (Est.)** – This contract is a task authorization-based contract for any planning, design services requested by DTPW. Project Role: Project Manager.

**Tampa Hillsborough Expressway Authority (THEA) General Engineering Continuing Services Contract, Hillsborough County, FL; Client: THEA; Reference: Brian Pickard, (813) 272-5987; Brian.Pickard@tampa-xway.com; Design Amount: Varies; Project Duration: 2021 to 2024** – 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. THEA operates the Selmon Expressway in Hillsborough County, Florida. Project Role: Project Manager.

**Pigeon Key Electrical Service, Monroe County, FL; Client: Pigeon Key Foundation; Reference: Kelly McKinnon, (305) 509-0345; pigeonkey@aol.com; Design Amount \$59,637; Length: 2.3 miles; Project Duration: 2019 to 2021** – 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. Specific coordination included agencies such as Florida Department of Transportation, Monroe County Public Works, Pigeon Key Historic Preservation Board, Florida Department of Historic Resources and the Florida Keys Electric Cooperative. This project is located along the Overseas Highway at 44800 Overseas Highway in Monroe County, Florida. Project Role: Project Principal.



**Years of Experience**  
30

**Years of Post Registration Experience**  
23

**Years working with BCC**  
Since 2018

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

**Registration**  
Professional Engineer  
Florida No. 58098, 2002



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## Ariel Millan, PE

Executive Vice President

Mr. Millan is an experienced municipal engineer with 32 years in transportation infrastructure, roadway improvements, and pedestrian-friendly urban enhancements. He has managed the planning, design, and implementation of multi-modal transportation hubs, roadway reconstruction, and urban beautification projects, ensuring high-quality standards in project execution. His expertise includes site planning, civil and transit design, traffic engineering, utility coordination, and quality control. Committed to innovative and cost-effective solutions, he plays a key role in enhancing municipal transportation systems with sustainable and efficient infrastructure improvements.

### Project Experience

**SR-9 (I-95)/Copans Road Interchange; Broward County, FL; Client: FDOT District 4; Reference: July Jimenez, (954) 777-4415; July.Jimenez@dot.state.fl.us; Length: 1.19 miles; Project Duration: 2017 to 2027 (Est.)** – The I-95/Copans Road interchange is a partial cloverleaf interchange with loop ramps in three of its four quadrants (northwest, southwest, and northeast quadrants). This project includes interchange improvements required to address deficiencies associated with the interchange. These deficiencies include a high level of traffic in the merge and diverge areas between entrance and exit ramps. To address these deficiencies, the interchange ramps will be modified to combine the two northbound entrance ramps into a single entrance ramp, physically separated from the I-95 General Purpose Lanes. Similarly, the two-southbound entrance and exit ramps will be combined to create a C-D road system in the SB direction. The project includes enhanced coordination with Broward County to address re-striping Copans Road to provide Bike Lane continuity. Project Role: Drainage Quality Control.

**SR 826/I-75 Express Lanes Project Design-Build (Contract No. E6I05; FM Nos. 432687-1-52-01, 432687-2-52-01, 432687-1-56-01, 430795-1-52-01, 430795-1-52-02); Miami-Dade County, FL; Client: FDOT District 6/The Community/Condotte/de Moya JV; Reference: (FDOT PM) Judy Solaun-Gonzalez, PE, (305) 470-5343; Judy.Solaun@dot.state.fl.us; Contract Amount: \$243.6 million; Length: 13 miles; Project Duration: 2014 to 2020 (Est.)** – Project included the addition of approximately 13 miles of Express Lanes – 10 miles along the SR 826 (Palmetto Expressway) and three miles on I-75 (SR 93). On SR 826, one to two Express Lanes in each direction were provided beginning approximately 0.20 mile south of West Flagler Street (south of SR 836) up to a point south of the NW 154th Street Bridge. On I-75, one Express Lane will be provided in each direction from SR 826 and to NW 170th Street (2.0 miles south of the Miami-Dade/Broward County Line). The improvements consisted of widening both SR 826 and I-75, reconstruction on SR 826, new construction in the median of I-75, and an elevated structure connecting the Express Lanes on SR 826 to the Express Lanes on I-75. This project included new drainage, lighting, Intelligent Transportation Systems (ITS), signage, and landscape. Project Role: Project Manager, EOR

**Accelerated Start Project Segment A I-4 (SR 400) from East of US 27 to West of SR 429; Celebration, FL; Client: Florida Department of Transportation Corridors Program Office; Reference: Keith Slater, PE, (850) 414 4305, Keith.Slater@dot.state.fl.us; Length: 4.2 miles; Construction Costs: \$159 million; Project Duration: 10/2024 to Present** – 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 and setting a new standard for future FDOT projects. Project Role: Principal-in-Charge.

**Accelerated Start Project Segment B, I-4 (SR 400) from West of SR 429 to East of World Drive; Celebration, FL; Client: Florida Department of Transportation Corridors Program Office; Reference: Keith Slater, PE, (850) 414 4305, Keith.Slater@dot.state.fl.us; Length: 3.4 miles; Construction Costs: \$116.675 million; Project Duration: 10.2024 to Ongoing** – This critical segment of the I-4 Accelerated Start Project continues FDOT's first use of the Modified Phased Design-Build (MPDB) approach. Segment B includes the construction of new congestion relief lanes to improve traffic flow, with targeted completion of these lanes by late 2026. The project also incorporates capacity expansion to accommodate future express lanes and provisions for future rail, ensuring long-term multimodal transportation solutions. With BCC as the prime design consultant, the MPDB method fosters early collaboration between design and construction teams, expediting project delivery while minimizing impacts on the traveling public. Project Role: Principal-in-Charge.



**Years of Experience**  
32

**Years of Post Registration Experience**  
26

**Years working with BCC**  
Since 2005

**Education**  
MS in Civil Engineering, 1999  
Florida International University  
BS in Civil Engineering, 1995  
Florida International University

**Career Highlights**  
Successfully Completed  
Streamline Technology ICPR  
Hands on Training  
Florida Advance Training (MOT)  
FDOT Specifications Package  
Preparation Training

**Registration**  
Professional Engineer  
Florida No. 54572, 1999  
Texas No. 134292, 2019  
Georgia No. 043804, 2018  
Puerto Rico No. 28118, 2020  
South Carolina No. 36558, 2019



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## Lazaro Ferrero, PE

Senior Water Resources Project Manager

### General Bio

Mr. Ferrero has 40 years of professional engineering design experience. Mr. Ferrero's experience involves a vast range of project types including but not limited to pumping stations, drainage systems, hydraulic design, and computer programming for engineering. Mr. Ferrero has been responsible for the design of several stormwater management systems in Miami-Dade and Broward Counties. Mr. Ferrero is currently a member of the Florida Engineering Society (FES).

### Project Experience

**City of Hollywood Stormwater Pump Station Analysis and Design for Drainage Systems between Iris Terrace and Hollywood Boulevard; Hollywood, FL; Client: City of Hollywood; Reference: Hugo Davalos, PE; (954) 921 3930 ext. 5608; hdavalos@hollywoodFL.org; Design Cost: 421,195.78; Project Duration: 3/25/2024 to 7/4/2025** – This project requires the analysis, design, permitting, and bid support services for a stormwater pump station to address drainage improvements between Iris Terrace and Hollywood Boulevard, specifically for the areas between Iris Terrace and Daffodil Terrace. The Florida Department of Transportation (FDOT) is designing two stormwater pump stations to manage flooding along State Road (SR) A1A and adjacent city areas, with Pump Station No. 1 covering the Azalea Drainage System (from Eucalyptus Terrace to Jefferson Street) and Pump Station No. 2 covering the Van Buren Drainage System (from Jackson Street to the end of the northbound Hollywood Blvd off-ramp). The areas between these two stations, as well as the area south of Pump Station No. 1 (south of Iris Terrace), are not included in the FDOT improvements and comprise four separate drainage systems with outfalls to the Intracoastal Waterway. The City requested FDOT to interconnect System 4 to the Azalea Drainage System, but FDOT declined due to potential schedule impacts and grant jeopardy. Consequently, the City engaged BCC to perform a basis of design report (BODR) to evaluate alternatives for enhancing flood protection for Systems 1 through 4 and to design the recommended improvements for System 4 as outlined in the BODR. Project Role: Senior Water Resources Project Manager, EOR.

**D4 Continuing Services Design Consultant Contract (Contract No.: CAE71, FPID: 441946-3-32-01); Broward, FL; Client: FDOT District TWO #11: TWO #11: SR A1A from Bouganvillea Terr to Harrison St- Pump Stations (Contract No.: CAE71; Project FPID: 448577-1-32-01; 44857713201); Ft. Lauderdale, FL; Client: FDOT District 4; Reference: Brad Salisbury, (954) 111-4625, brad.salisbury@dot.state.fl.us; Design Fees: \$565,549.29; Project Duration: 8/2022 to Ongoing** – This project involves providing design services for Pump Station - SRA1A from Bouganvillea Terrace to Harrison Street in Broward County. Design services of drainage improvements that would alleviate the flooding in low lying areas subject to high tide conditions along SR A1A with the use of two (2) stormwater pump stations and all associated features. Additional scope of work includes roadway design for restoration of impacted roadway elements, temporary traffic control design, utility coordination, permitting, structural design of pump station features, sea walls & temporary sheet-piling and electrical design of the pump station features. Project Role: Senior Water Resources Project Manager, EOR.

**North Bay Village Stormwater Pump Station Assessment and Design, North Bay Village, FL; Client: North Bay Village, FL; Reference: Frank Rollason, Village Manager, (305) 756-7171, M(305) 299-7300, VillageManager@nbvillage.com; Project Duration: 2021 to Present** – BCC is providing design services for alleviating flooding conditions observed within the southeast bounds of North Bay Island, located within North Bay Village. The project included the collection and review of pertaining survey information, GIS data, storm sewer record drawings and drainage well completion reports, to facilitate the development of an integrated one-dimensional (1D)/two-dimensional (2D) ICPv4 hydrologic & hydraulic (H&H) model. The stormwater model covers an area of approximately 44-acres and served as the primary analysis tool to evaluate the existing stormwater management system. development effort and results of the evaluation were summarized in a Basis of Design Report (BODR). The results of the BODR were then advanced to a design stage, permitted, and the project is currently entering its construction phase. Project Role: Senior Water Resources Project Manager, EOR.

**South Roosevelt Blvd./SR-A1A from MP. 0.000 TO MP. 0.977 Stormwater Pump Station Design; Monroe County, FL; Client: FDOT District 6; Reference: Joaquin De la Cruz (305) 470-5258; Joaquin.DelaCruz@dot.state.fl.us; Project Duration: 2020 to Ongoing** – South Roosevelt Blvd./State Road A1A (the Project) is the southernmost state-designated highway of the United States. It directly fronts the Atlantic Ocean on the south, hotels/apartments to the north, and is designated the Atlantic 1 Alternate (A1A) Scenic and Historic Coastal Highway. The stormwater management system will include a stormwater pump station with a vortex pollution control structure downstream of the pump station and drainage injection wells downstream of the pump station with an emergency bypass structure. The pump station will have a diesel emergency generator on an elevated platform. Project Role: Senior Water Resources Project Manager, EOR.



**Years of Experience**  
40

**Years of Post Registration Experience**  
23

**Years working with BCC**  
Since 2023

**Education**  
BS in Civil Engineering, 1985  
Polytechnic University of  
Havana, Cuba

**Registration**  
Professional Engineer  
Florida No. 58025, 2002

**Memberships**  
Florida Engineering Society  
(FES) Member



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## Yairen Sotolongo-Gabeiras, PE

Associate Drainage Project Manager

Ms. Yairen Sotolongo-Gabeiras has more than 8 years in drainage design and hydrologic modeling. As a drainage designer, she has worked in different projects from limited access highways to major highways. She is well equipped with industry standard software packages for drainage design such as ICP, Microstation, Geopak, ASAD, Arcgis, etc.

### Project Experience

**SR 30 (US 98) over St. Andrew Bay GIWW - Bridge No. 460019 (DuPont Bridge); Bay County, FL; Client: FDOT District 3/Scott Bridge Company, Inc.; Reference: Michael Collier, PE, 334-704-3282; mcollier@scottbridge.com; Length: 1.3 miles; Project Duration: 7/2024 to Ongoing** – This high-profile Design-Build project involves the replacement of the existing DuPont Bridge on SR 30 (US 98) over St. Andrew Bay and Gulf Intracoastal Waterway (GIWW) in Bay County, Florida. The current 4-lane, 2,750-foot bridge will be replaced with twin 2-lane bridges with wide shoulders on a new alignment. The new bridges will have a 75-foot vertical clearance, which is 25 feet higher than the existing vertical clearance. The main span of the new bridges will provide a 375-foot horizontal clearance. Key considerations include addressing deep scour depths around the channel and recognition and accommodation of the glide path for Tyndall Air Force Base, located just 2 miles away. The project includes the design of roadway and bridge drainage systems, design of a stormwater management pond and use of compensatory treatment, and temporary drainage for the Maintenance of Traffic Plan. BCC is the Lead Designer for this project, and is providing design services for Structures, Roadway, Signing and Pavement Marking, Traffic Control, Drainage, Lighting, ITS, and Environmental and USCG Permitting. Project Role: Drainage Engineer.

**I-95 Express Lanes Phase 3C Design-Build: I-95 Express/I-595 Direct Connectors, I-95 from Stirling Road to Broward Boulevard & I-95 at I-595; Broward, FL; FDOT District 4; Reference: Mark Moshier, P.E. FDOT, Construction Project Manager, (954) 958-7628, Mark.Moshier@dot.state.fl.us Project Duration: 9/2021 -** This project involves approximately 9 miles of express lane construction on I-95, approximately 2 miles of improvements along I-595, direct connections between NB and SB I-95 Express Lanes and I-595 to and from the west, and the painting of 17 existing steel bridges. Within the project limits, I-95 is a north-south, divided, urban, limited access facility with design and posted speeds of 65 mph generally consisting of 12-foot general purpose lanes and auxiliary lanes, 12-foot paved inside shoulders, and 12-foot (10-foot paved) outside shoulders in each direction. There are existing interchanges within the construction limits, bridge crossings, and a local overpass. Project Role: Structural Engineer, Design the foundations utilizing pipe piles for the bridge widenings at Johnson Street, Taft Street and Griffin Road. Ms. Sotolongo-Gabeiras provided solutions to drainage conflicts and produced revision plans. Project Role: Associate Drainage Project Manager

**South Roosevelt Blvd./SR-A1A from MP. 0.000 TO MP. 0.977 Stormwater Pump Station Design; Monroe County, FL; Client: FDOT District 6; Reference: Joaquin De la Cruz (305) 470-5258; Joaquin.DelaCruz@dot.state.fl.us; Length: 0.98 miles; Project Duration: 2020 to Ongoing** – South Roosevelt Blvd./State Road A1A (the Project) is the southernmost state-designated highway of the United States. It directly fronts the Atlantic Ocean on the south, hotels/apartments to the north, and is designated the Atlantic 1 Alternate (A1A) Scenic and Historic Coastal Highway. The project scope includes milling, overbuild and resurfacing, reconstruction of the promenade, three new pedestrians crossing with HAWK, the addition of retaining wall at two locations where none currently exists, and upgrade signing and pavement markings. Mr. Vazquez is the Engineer of Record for the stormwater management and drainage design for this project. The stormwater management system will include a stormwater pump station with a vortex pollution control structure downstream of the pump station and drainage injection wells downstream of the pump station with an emergency bypass structure. The pump station will have a diesel emergency generator on an elevated platform. Project Role: Drainage Engineering Designer.

**Kings Highway from North of I-95 to North of St. Lucie Blvd.; St. Lucie County, FL; Client: FDOT District 4; Reference: Bing Wang, PE, (954) 777-4406; bing.wang@dot.state.fl.us; Length: 2.65 miles; Contract Amount: 4.3 million; Project Duration: 01/2018 to Ongoing** – Reconstruction of Kings Highway to widen from a two-lane facility to a four-lane divided section (Sub-Urban Section). The design of this segment of Kings Highway is broken into two projects; The first is from I-95 to Commercial circle and the second is from Commercial Circle to North of St. Lucie Blvd. Key elements on the project include Bridge replacement of two existing structures, Signalization, permitting, right-of way acquisition, access management, and traffic control during construction. Extensive coordination with South Florida Water Management District (SFWMD) and U.S. Army Corps of Engineers (USACOE) is required for permitting and mitigation of wetland and wildlife impacts. Coordination with North St. Lucie River Water Control District (NSLRWCD) as well as Ft. Pierce Farms Water Control District (FPFWCD) will also be necessary for permitting of the drainage system and relocation of the existing canals bordering the west side of the road. Project Role: Associate Drainage Project Manager.



**Years of Experience**  
8

**Years working with BCC**  
Since 2019

**Education**  
BS in Civil Engineering, 2019  
Florida International University

**Registration**  
Professional Engineer  
Florida No. 98381, 2024



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## Luis M. Ochotorena, PE

Associate Civil Project Manager

Mr. Ochotorena has 7 years of Civil Engineering experience in planning, designing, permitting, procurement, and construction of engineering projects. He has worked on several projects involving the design and permitting of design-build, site development, storm water, water main, force main, and sanitary sewer utilities utilizing open-cut, horizontal directional drill, and Close Tolerance Pipe Slurrification (CTPS) pipeline installations. In addition to his technical abilities, Mr. Ochotorena is a highly effective Civil Engineering Designer. He is well aware of the effort required to successfully complete civil design projects including coordination with the client, subconsultants, permitting agencies, contractors and between design disciplines.

### Project Experience

**Trump National Doral Parcels A, B, and C Redevelopment; Doral, FL; Client: Trump Endeavor 12, LLC and Scotland Acquisitions, LLC; Reference: Mike Vergara, (908) 296-4951; mike.vergara@trumporg.com; Length: 2,222 Dwellings; Project Duration: 04/2022** –The Client is proposing to redevelop a part of the subject property generally located in the northwest area of the intersection of Doral Boulevard (NW 36th Street) with NW 87th Avenue in the City of Doral, Florida. According to the Site Plan prepared by Architects Pascual, Perez, Kiliddian & Starr, the proposed development on Parcels A, B, C and the club area will comprise a total of 2,222 High-Density Multi-Family residential dwelling units. BCC's Basic Services include the design of the water and sewer connection; preparing paving, grading, and drainage plans; permitting; and construction administration (comment responses, shop drawing reviews, and responses to Request For Information [RFI]) for the civil engineering improvements. BCC will provide utility and drainage calculations and civil construction documents sufficient to obtain permits from the agencies identified in Task 4. Project Role: Civil Engineering Designer.

**North Bay Village Contract for General Professional Engineering and Architectural Services (RFQ 2019-005); Miami, FL; Client: North Bay Village Task Order No. 3: Stormwater Pump Station Upgrade; North Bay Village, FL; Client: North Bay Village Public Works; Reference: Delroy Peters, Village Engineer/CIP Manager, (305) 756-7171, dpeters@nbvillage.com; Design Cost: \$124,908.40; Project Duration: 2020 to Ongoing** – BCC is providing design services for alleviating flooding conditions that have been observed within the south-east bounds of North Bay Island. The project involves the collection and review of pertaining survey information, GIS data, storm sewer record drawings, and drainage well completion reports to facilitate development of a two-dimensional (2D) ICPv4 hydrologic & hydraulic (H&H) model. The stormwater model covers an area of approximately 44-acres and will serve as the primary analysis tool to evaluate the existing stormwater management system. In turn, the model will be modified to incorporate and evaluate three design concepts to address the documented drainage deficiencies. The model development effort and results of the evaluation will be summarized in a Basis of Design Report (BODR) which will discuss the pre- and post-development drainage conditions while elaborating upon the benefits and disadvantages of each alternative. Moreover, the BODR will highlight considerations and design requirements for project implementation. Following the evaluation phase, BCC will develop 60%, 90% and 100% design documents for the construction of the proposed improvements. In addition, BCC will be coordinating necessary permitting efforts with applicable regulatory agencies, such as FDEP and D-RER, while managing any necessary relocations with applicable private utilities. Project Role: Civil Engineer Designer.

**1023439.01 Lauderhill East Turnpike; Broward, FL; Client: City of Lauderhill; Reference: Juan Cala, (954) 649-9706, jmcala@laudhill-fl.gov; Project Duration: 01/2024 to 0000** – Improvements east of turnpike for drainage. Mr. Ochotorena was responsible for creation of construction plans, as well as calculations and design documentation; Project Role: Civil Engineering Designer.

**1020134.08 Doral CIP Y4 Design; Doral, FL; Client: City of Doral; Reference: Darlin Perez, P.E., Darlin.Perez@cityofdoral.com; Project Duration: 12/2023 to Present** – Doral CIP Y4 Drainage Design, the City of Doral authorizes BCC Engineering, LLC to provide professional services to design the storm water improvements project for City of Doral. Mr. Ochotorena was responsible for creation of construction plans, as well as calculations and design documentation; Project Role: Civil Engineering Designer.

**1021113.01 Brickell-Grove Seawalls; Miami, FL; City of Miami; Text; Reference: Pedro Alvarado, (305) 416-1400, Alvarado, Pedro palvarado@miamigov.com; Length: Physical length of project; Project Duration: 02/2024** – BCC is providing structural and civil design for new seawalls at three locations between SE 25th Road to Matheson Avenue. The project is funded through the Resilient Florida Grant Program (RFGP) 2021-2022 (Federal) and Miami Forever Bond to improve the bulkhead line/shoreline and ensure the continuity of the baywalk. This project is to rehabilitate or replace deteriorated seawalls and provide new baywalks along public R/W. Mr. Ochotorena is responsible for creation of construction plans, as well as calculations and design documentation. Project Role: Civil Engineering Designer.



**Years of Experience**  
7

**Years working with BCC**  
Since 2019

**Education**  
BS in Environmental  
Engineering, 2021  
Florida International University

**Registration**  
Professional Engineer  
Florida No. 103463, 2026

**Memberships**  
American Society of Civil  
Engineers  
Florida Engineering Society



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## Jean Pierre Valle, PE, CFM

Associate Civil Project Manager

With 9 years of professional experience in hydrologic and hydraulic design, Mr. Valle has contributed to various significant resiliency projects. His roles have consistently involved hydrologic and hydraulic analysis, project coordination, and developing mitigation strategies to address the impacts of climate change on community infrastructure. Mr. Valle has collaborated with NOAA at the National Water Center and the Earth System Research Laboratories, further enhancing his understanding of resiliency efforts.

### Project Experience

**1023596.01 City of Doral - CIP Year 1 Drainage Design; City of Doral, FL; Client: City of Doral; Reference: Darlin Perez, PE, (305) 593-6740 Ext. 6008; Darlin.Perez@cityofdoral.com; Project Duration: 11/14/2024 to 12/25/2025** – Professional Engineering Services associated with designing and permitting phases for the stormwater improvement project included in the Year 1 Capital Improvement Plan included in the current Stormwater Master Plan as part of the Continuing Professional Engineering Services Agreement between the City of Doral (City) and BCC Engineering, LLC (BCC). As part of the City's Stormwater Management Master Plan (SWMP) completed in March 2021, a five-year CIP was developed to address the top 20 high-priority problem basins and identify cost-effective stormwater improvement projects to improve the flood protection level of service for these basins. Year 1 of the stormwater CIP identified two projects to address two high-priority basins. Project Role: Water Resources Engineer.

**1020134.08 Doral CIP Y4 Design; Miami, FL; Client: City of Doral; Reference: Darlin Perez, P.E., Darlin.Perez@cityofdoral.com; Project Duration: 12/21/2023 to 12/25/2025** – Doral CIP Y4 Drainage Design, the City of Doral authorizes BCC to provide professional services to design the storm water improvements project for City of Doral. The project includes the creation of construction plans, as well as calculations and design documentation; Project Role: Water Resources Engineer.

**North Bay Village Contract for General Professional Engineering and Architectural Services (RFQ 2019-005); Miami, FL; Client: North Bay Village; Reference: Frank Rollason, Village Manager, (305) 756-7171, VillageManager@nbvillage.com; Project Duration: 11/2019 to Ongoing** – The project is located in North Bay Village, FL in Miami-Dade County within Harbor Island and Treasure Island. The project involves several task work orders. The scope of services include providing general engineering and architectural services to provide planning, reviews, assessments, reports, studies, design, project permitting, renderings, schedules, cost estimates, construction specifications, project management, construction inspection and management for projects such as marine construction, roadway, transportation/traffic signalization, traffic calming, drainage, water, sanitary sewer, site plan, architectural planning and design (incl. structural, mechanical, electrical and plumbing), sustainability, environmental and landscaping. Project Role: Deputy Project Manager.

**Village of Pinecrest General Engineering Services Contract; Miami FL; Client: Village of Pinecrest; Reference: David Mendez, (305) 234-2125; dmendez@pinecrest-fl.gov; Length: Text; Project Duration: 2022 to Ongoing** – This is a continuing architectural and engineering services contract with Village of Pinecrest. Several Task Work Orders are: Drainage Project Phase I: SW 70th Avenue between SW 128th street to SW 133rd street, 100DN-1W drainage improvements - Phase 2: SW 73rd court between SW 104th street to SW 98th street, SW 100th street from SW 73rd court to SW 72nd Aveques and SW 98th street from SW 73rd CT to SW 72nd Ave and SW 98th street from SW 73RD CT to SW 72nd Ave, C100DN-1W Drainage Improvements Phase 1: SW 71st Avenue between SW 104th street to SW 101st street and SW 72nd avenue between SW 104th street and SW 98th street, Vulnerability Assessment and Basin C100A E-2 Drainage Improvements.

**Village of Pinecrest Vulnerability Assessment TWO #4; Miami FL; Client: Village of Pinecrest; Reference: David Mendez, (305) 234-2125; dmendez@pinecrest-fl.gov; Length: N/A; Project Duration: 2023 to 2024** – This is Task Work Order #4 for Village of Pinecrest. This task is a vulnerability assessment which will identify areas within the Village most susceptible to damage from an increase in sea-level and groundwater rise. Project Role: Water Resources Engineering Designer

**C100DN-1W Drainage Design - Phase 2 TWO #2; Miami FL; Client: Village of Pinecrest; Reference: David Mendez, (305) 234-2125; dmendez@pinecrest-fl.gov; Length: N/A; Project Duration: 2022 to 2024** – This project involves the design and implementation of drainage improvements under Task Work Order #2 for Phase 2 of the Village of Pinecrest C100DN-1W drainage project. The scope includes enhancing stormwater management infrastructure along SW 73rd Court (SW 104th St to SW 98th St), SW 100th St (SW 73rd Ct to SW 72nd Ave), and SW 98th St (SW 73rd Ct to SW 72nd Ave). The objective is to improve flood mitigation and stormwater conveyance in these areas. Project Role: Water Resources Engineering Designer.



**Years of Experience**  
9

**Years working with BCC**  
Since 2022

**Education**  
MS in Water Resources  
Engineering, 2019  
University of Puerto Rico  
BS in Civil Engineering, 2016  
University of Puerto Rico

**Career Highlights**  
ArcGIS  
ArchHydro Toolbox  
HEC-HMS  
HY-8  
HEC-RAS  
MicroStation  
Texas Floodplain Managers  
Association, 2022 to present

**Registration**  
Professional Engineer  
Florida No. 99390, 2024

**Certifications/Training**  
Certified Floodplain Manager



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## Christian Aquino, PE, SI

Structural Engineer

Mr. Aquino has 19 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, Christian's 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.

### Project Experience

**Miami-Dade County Department of Transportation and Public Works, Professional Services for Transit and Public Works (DTPW) Project, Miami-Dade County, FL; Client: Miami-Dade County DTPW; Eva Kunath, (305) 460-5008, Eva.Kunath@miamidade.gov; Project Duration: 2022 to 2023 Various Metrorail Stations - Structural Inspections & Recertifications; Miami-Dade County, FL; Client: Miami-Dade County DTPW; Reference: Eva Kunath, (305) 460-5008, Eva.Kunath@miamidade.gov; Project Duration: 2022 to 2023** – This project is a task work order for the Miami-Dade County Transit General Engineering Contract. BCC is bringing support to the Department of Transportation and Public Works to provide the structural engineering services which include visually inspecting the structural condition of the existing station at Vizcaya Metrorail, the Parking Garage at the Dadeland North Station, the Coconut Grove Station including a total of 27 DTPW buildings and 51 Metrorail/Metromover structures that will be inspected and BCC will provide a structural Condition Assessment Report (SCA). Miami-Dade County recently adopted a strengthened milestone building recertification program that reduces the inspection cycle from 40 to 30 years, among other changes. Based on the new recertification requirements, several DTPW (transit) buildings are due for their initial re-certification by December 31st, 2024. The scope of work is to conduct the structural and electrical inspections. Project Role: Project Manager and Principal.

**Miscellaneous Pump Stations (E13-WASD-03); Miami-Dade County, FL; Client: Miami-Dade Water and Sewer Department (M-DWASD)/Milian, Swain & Associates, Inc.; Reference: (APCTE), Julio Menache, (305) 441-0123, jmenache@milianswain.com; Project Duration: 2014-Present.** Project includes the rehabilitation of nineteen sewage pump stations to comply with a consent decree with the United States Environmental Protection Agency. Typical project scope consists of either replacing an entire wet well or replacing the top slab of an existing wet well, providing a new precast concrete valve vault, providing slabs on grade for equipment, providing chain link fences, providing aluminum access platforms for equipment, and providing retaining walls at changes in elevation. Project Role: Structural Project Manager.

**City of Miami Beach Professional Architectural and Engineering Services – Structural Engineering; Miami Beach, FL; Client City of Miami Beach; Reference: Jorge Guanchez, (305) 673-7490; JorgeGuanchez@miamibeachfl.gov; Project Duration: 2015 to 12/2020**

**Fleet Management Seawall Assessment & Repair; Miami Beach, FL; Client: City of Miami Beach; Reference: David Gomez, (305) 673-7071; davidgomez@miamibeachfl.gov; Contract Amount: \$124,671.54**– The Fleet Management Facility is located on Terminal Island. The rear of the building is adjacent to Government Cut and has an existing steel sheet pile seawall of approximately 200'. The existing seawall was designed with tie backs that extended into the existing building. The existing concrete walkway between the building and seawall had significant settlement and had a segment that collapsed. BCC Engineering was requested to assess the existing conditions and upon our assessment from land and water, it was determined that the soil beneath the walkway had completely washed away. The existing steel sheet pile had completely weathered away along the waterline for the entire length of the seawall which allowed for washout of the soil. Damage to the existing building wall was also encountered. Based on our field assessment and report, it was recommended a new seawall be immediately constructed. BCC provided structural design, construction administration, and CEI services for a new king pile seawall. The seawall was installed immediately in front of the exist seawall and had a maximum pile depth of 63'. The seawall was constructed with additional, sacrificial steel thickness, and additional coatings for increased service life. Project Role: Project Manager.



**Years of Experience**  
19

**Years of Post Registration Experience**  
12

**Working with BCC**  
Since 2014

**Education**  
MS Civil Engineering, 2008  
University of Miami  
BS Civil Engineering, 2007  
University of Miami

**Registration**  
Professional Engineer  
Florida No. 74647, 2012  
Texas No. 141819, 2021  
Special Inspector No. 74647  
2021

**Professional Affiliations**  
American Society of Civil Engineers (ASCE)  
Florida Structural Engineers Association (FSEA)



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## Steven M. Goldstein, PE, SI

Chief Engineer – Building Structures

Mr. Goldstein has 42 years of experience in the design of buildings and other civil engineering structures. Mr. Goldstein's projects have ranged from high-rise towers, including the tallest building in Florida at the time, large mega-resorts, single-family homes, miscellaneous alterations, repairs and renovations. Mr. Goldstein's designs have included hotels, office buildings, parking garages, condominiums, restaurants and retail establishments, casinos, hospitals and airports. During his career, Mr. Goldstein has advanced to the Chief Engineer of a large structural engineering firm. His tasks have included overseeing the work of Project Managers, performing project quality control reviews, preparing proposals, developing company-wide typical details, specifications and general notes, developing design checklists and a quality control manual, reviewing in-house design spreadsheets and approving software and literature purchases.

### Project Experience

**City of Hollywood Stormwater Pump Station Analysis and Design for Drainage Systems between Iris Terrace and Hollywood Boulevard; Hollywood, FL; Client: City of Hollywood; Reference: Hugo Davalos, PE; (954) 921 3930 ext. 5608; hdavalos@hollywoodFL.org; Design Cost: 421,195.78; Project Duration: 3/25/2024 to 7/4/2025** – This project requires the analysis, design, permitting, and bid support services for a stormwater pump station to address drainage improvements between Iris Terrace and Hollywood Boulevard, specifically for the areas between Iris Terrace and Daffodil Terrace. The Florida Department of Transportation (FDOT) is designing two stormwater pump stations to manage flooding along State Road (SR) A1A and adjacent city areas, with Pump Station No. 1 covering the Azalea Drainage System (from Eucalyptus Terrace to Jefferson Street) and Pump Station No. 2 covering the Van Buren Drainage System (from Jackson Street to the end of the northbound Hollywood Blvd off-ramp). The areas between these two stations, as well as the area south of Pump Station No. 1 (south of Iris Terrace), are not included in the FDOT improvements and comprise four separate drainage systems with outfalls to the Intracoastal Waterway. The City requested FDOT to interconnect System 4 to the Azalea Drainage System, but FDOT declined due to potential schedule impacts and grant jeopardy. Consequently, the City engaged BCC to perform a basis of design report (BODR) to evaluate alternatives for enhancing flood protection for Systems 1 through 4 and to design the recommended improvements for System 4 as outlined in the BODR. Project Role: Senior Structural Project Manager, EOR.

**D4 Continuing Services Design Consultant Contract (Contract No.: CAE71, FPID: 441946-3-32-01); Broward, FL; Client: FDOT District TWO #11: TWO #11: SR A1A from Bouganville Terr to Harrison St- Pump Stations (Contract No.: CAE71; Project FPID: 448577-1-32-01; 44857713201); Ft. Lauderdale, FL; Client: FDOT District 4; Reference: Brad Salisbury, (954) 111-4625, brad.salisbury@dot.state.fl.us; Design Fees: \$565,549.29; Project Duration: 8/2022 to Ongoing** – This project involves providing design services for Pump Station - SRA1A from Bouganville Terrace to Harrison Street in Broward County. Design services of drainage improvements that would alleviate the flooding in low lying areas subject to high tide conditions along SR A1A with the use of two (2) stormwater pump stations and all associated features. Additional scope of work includes roadway design for restoration of impacted roadway elements, temporary traffic control design, utility coordination, permitting, structural design of pump station features, sea walls & temporary sheet-piling and electrical design of the pump station features. Project Role: Senior Structural Project Manager, EOR.

**North Bay Village Stormwater Pump Station Assessment and Design, North Bay Village, FL; Client: North Bay Village, FL; Reference: Frank Rollason, Village Manager, (305) 756-7171, M(305) 299-7300, VillageManager@nbvillage.com; Project Duration: 2021 to Present** – BCC is providing design services for alleviating flooding conditions observed within the southeast bounds of North Bay Island, located within North Bay Village. The project included the collection and review of pertaining survey information, GIS data, storm sewer record drawings and drainage well completion reports, to facilitate the development of an integrated one-dimensional (1D)/two-dimensional (2D) ICPv4 hydrologic & hydraulic (H&H) model. The stormwater model covers an area of approximately 44-acres and served as the primary analysis tool to evaluate the existing stormwater management system. development effort and results of the evaluation were summarized in a Basis of Design Report (BODR). The results of the BODR were then advanced to a design stage, permitted, and the project is currently entering its construction phase. Project Role: Senior Structural Project Manager, EOR.



**Years of Experience**  
42

**Years of Post Registration Experience**  
34

**Years working with BCC**  
Since 2010

**Education**  
MBA, 1983, Cornell University  
MS in Structural Engineering  
1982, Cornell University  
BS in Civil Engineering, 1981  
Cornell University

**Registration**  
Professional Engineer  
Florida No. 44423, 1991  
Texas No. 142594, 2021  
Special Inspector  
FL License No. 44423, 1994

**Professional Associations**  
American Society of Civil Engineers (ASCE) - Fellow  
American Concrete Institute (ACI)  
Florida Engineering Society (FES) - Fellow  
Florida Structural Engineers Association (FSEA)  
Professional Member of AISC

**Awards**  
2003 Engineer of the Year,  
ASCE Florida Section  
2002, 2012 Engineer of the  
Year, ASCE Miami-Dade  
Branch



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## Michelle Brioso Rossi, PE

Senior Project Manager

Mrs. Rossi has over 12 years of experience in transportation engineering. Mrs. Rossi has been involved in both the conceptual and final design for the Florida Department of Transportation, Florida's Turnpike Enterprise, and other public agencies. She has managed multiple projects, working closely with clients to ensure reliability, quality, and satisfaction with each project. Her design experience includes plans preparation, roadway geometric design, and temporary traffic control plans.

### Project Experience

**Lake Orange Expressway Segment 2 (Project No.: 516-237; Contract No.: 001686); Lake County, FL; Client: Central Florida Expressway Authority; Reference: Jamison Edwards, (407) 690-5348; Jamison.Edwards@cfxway.com; Contract Amount: \$10.0M; Project Duration: 2020 to 2024** – This project includes approximately 2 miles of new tolled limited access facility design, along with 2 new interchanges at Cook Rd and at Lake CR 455, a trail that is located on the south end between Cook Rd and CR 455, and the design of a portion of CR 455, a new arterial roadway. The project includes 9 bridges including 2 bridges at Cook Road, 2 bridges at CR 455, 2 mainline bridges over Sawgrass Lake, a trail bridge over Sawgrass Lake, and 2 mainline bridges over Lake Needham. Design elements include roadway, drainage, structures, tolling, intelligent transportation systems design and signing and pavement markings. The project will be designed to conform with CFX's Sustainable Design initiative. Coordination with major landowners and Lake County will be required to ensure the design is compatible with this rapidly developing corridor. 5 bridges, including the 2 mainline bridges and the trail bridge over Sawgrass Lake, and the 2 mainline bridges over Lake Needham were added to the project when permitting challenges arose and had to be delivered within an aggressive 6 month-schedule. The 2 bridges over Cook Rd consist of single span FIB-36" superstructures with a total length of 96' supported on 18" PS concrete pile bents with MSE walls. The 2 bridges over CR 455 consist of single span FIB-78" superstructures with a total length of 169' supported on 24" PS concrete pile bents with MSE walls. The WB bridge over Sawgrass Lake consists of 35 spans using FIB-36" superstructure with a total length of 2,640' supported on 30" steel pipe piles with MSE walls at the end bents. The EB bridge over Sawgrass Lake consists of 40 spans using FIB-36" superstructure with a total length of 3,040' supported on 30" steel pipe piles with MSE walls at the end bents. The Trail bridge over Sawgrass Lake consists of 48 spans using FIB-36" superstructure with a total length of 3,850' supported on 30" steel pipe piles with MSE walls at the end bents. The EB and WB bridges over Lake Needham consist of 9 spans using FIB-36" superstructure with a total length of 765' supported on 30" steel pipe piles with spill through abutment at the west end bent and MSE walls/sheet pile walls at the east end bent. The project also includes over 2 miles of MSE Walls and over 3,000' of permanent sheet pile walls that run along the roadway. Project Role: Roadway Project Engineer.

**Village of Key Biscayne - Continuing Architectural & Engineering Services; Key Biscayne, FL; Reference: Jake Ozyman, Director, Building, Zoning & Planning (305) 365-7568; jozyman@keybiscayne.fl.gov; Project Duration: 01/2022 to 2023** – BCC coordinated with the Village of Key Biscayne, Miami-Dade County, Miami-Dade Transit, and other relevant entities to gather 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 and 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. Project Role: Roadway Project Engineer.

**GMX Work Program 87410.030: Design-Build Services for SR 874 Ramp Connector to SW 128th Street (Contract No. RFP-15-02); Miami-Dade County, FL; Client: Greater Miami Expressway Agency (GMX)(FKA MDX)/The de Moya Group, Inc.; Reference: Claudio Diaferia, PE, (305) 637-3277 ext. 2113; cdiaferia@gmx-way.com; Contract Amount: \$40 million; Project Duration: 2015 to 2021** – As part of the Design-Build Team, BCC Engineering is serving as Prime Designer for the design and construction of the GMX Ramp Connectors from SR 874 (Don Shula Expressway) to SW 128th Street from west of the SR 821 Homestead Extension of Florida's Turnpike (HEFT), to west of SR 825/SW 137th Avenue. The new ramp connectors will provide access to and from the Don Shula Expressway (SR 874) and SW 128th Street at SW 122nd Avenue, extending SR 874 west from its current terminus at the HEFT (approximately 0.5 mile). The ramp connectors will require third level flyovers over the existing SR 874/SR 821 interchange. The flyovers are complex Category 2 bridges with straddle piers and drilled shaft foundations. The project widens approximately 1.5 miles of SW 128th Street from a three-lane urban section to a five-lane urban section. Additional scope items include signals for three intersections, lighting design, Intelligent Transportation Systems (ITS) design and utility work for Miami-Dade Water and Sewer Department. BCC is responsible for project management, roadway, drainage, traffic operations and structural design for the project. Project Role: Project Engineer responsible for plans preparation and roadway geometric design. Project Role: Roadway Project Engineer.



**Years of Experience**  
12

**Years of Post Registration Experience**  
7

**Years working with BCC**  
Since 2014

**Education**  
BS in Civil Engineering, 2013  
Florida International University

**Registration**  
Professional Engineer  
Florida No. 84564, 2018  
Texas No. 140865, 2021  
Puerto Rico No. 29106, 2024

**Certifications**  
Temporary Traffic Control  
Advanced Course (MOT)



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## Hendric Mendez, PE

Traffic Operations Project Manager

Mr. Mendez has 14 years of experience working on a variety of disciplines including Roadway, Signing, Signalization and Intelligent Transportation Systems (ITS). He has completed multiple Signal designs for FDOT District 4, 6 and Miami Dade County. In the past year, Mr. Mendez focused on multiple Design-Build projects from the proposal phase through final construction.

### Project Experience

**Seminole Tribe of Florida New Headquarters Complex Engineering Services; Broward County, FL; Client: Seminole Tribe of Florida (STOF); Reference: Deepa S. Limaye, GS & P, Inc., (704) 420-7928, deepa.limaye@greshamsmith.com; Project Duration: 2024 to 2026** – The Seminole Tribe of Florida (STOF) plans to construct a new headquarters at the southwest corner of Osceola Drive and State Road 7 in Broward County, Florida. BCC will support this effort by providing a full range of traffic engineering services including methodology coordination, traffic data collection, a traffic impact study, and preparation of a traffic study report. BCC will also lead the design and implementation of a new fully operational traffic signal at the SR 7 driveway, along with related services such as signalization analysis and plans, signing and pavement marking, traffic operations design, roadway design, lighting analysis, utility coordination, structures review, and overall project management. These efforts will ensure safe and efficient access to the site while meeting all FDOT and local agency requirements. Project Role: Project Manager, Signalization EOR

**Metropistas Tier 1 Accelerated Safety Upgrades; Puerto Rico; Client: O&M; Reference: Jose Luyando, (787) 200-2706, jluyando@omprc.com; Project Duration: 06/2024 to 06/2025** – Tier 1 Accelerated Safety Upgrades consists on developing a baseline inventory, condition assessment and recommended upgrades of signage and electrical assets on PR-52, PR-66, PR-53 and PR-20 Toll Roads within Metropistas' Concession Limits. The elements of work include: field data collection, as-built plans review, update of existing GIS asset database and repair/replacement/upgrade recommendations. Our team will provide cost estimates of all recommended upgrades. All these tasks will be supported by our GIS specialists to streamline the process. Project Role: Project Manager, Signing Engineering.

**City of Miami Beach ITS Design Build Operate and Maintain - Phases III through VI; Miami, FL; Client: Transcore ITS, LLC City of Miami Beach; Reference: Patrick Shortal, (954) 342-0690; Project Duration: 2024 to 12/2025 (Est.)** – The City of Miami Beach is implementing a citywide Intelligent Transportation System (ITS) and Smart Parking program to enhance traffic management and parking operations. The project includes deployment of CCTV cameras, Microwave Vehicle Detectors (MVDS), Bluetooth travel time detectors (AVI-TTS), Dynamic Message Signs (DMS), and vehicle counters at City-operated garages and lots to provide real-time traffic and parking data. Communications between devices will rely on high-speed wireless Ethernet links, with data centralized at a new City-operated ITS control room located within FDOT District 6's SunGuide TMC. The project follows a Design-Build-Operate-Maintain (DBOM). BCC is serving as the ITS designer for phases 3 through 6. BCC's scope includes preparation of ITS, Smart Parking, and Maintenance of Traffic (MOT) plans, integration of wireless communications designs by SIMREX, and coordination with subconsultants for geotechnical, survey, SUE, utility coordination, and structural components. Project Role: ITS EOR

**Design-Build Services for SR 836/HEFT Homestead Extension of the Florida's Turnpike and SR 836 New Ramp Connections (Contract No.: MDX 83634.010, 83634.030); Location: Miami, FL Client: Greater Miami Expressway Agency Reference: Tere Garcia, Public Information Officer; (786) 277-9292; tgarcia@gmxway.com; Project Duration: 4/2022 to 12/2025 (Est.)** – The new ramps will provide much needed connection between SR 836 and the HEFT to facilitate travel between the southwest and the northwest areas of Miami-Dade County. This will also facilitate access to the Doral area which is one of the main transportation demand generators and an important destination for commuters traveling from the West Kendall area. These new ramps will facilitate access to proposed new transit facilities in the area such as the now under construction Dolphin Station Park and Ride a joint project between the Miami-Dade Transportation Department, the Florida Department of Transportation and MDX to serve the Express Bus Service on the SR 836/Dolphin Expressway. Project Role: Signalization EOR.

**Highway Engineering Services ISD Project No. E19-DTPW-12; Miami-Dade County, FL; Client: Miami-Dade County Department of Transportation and Public Works (DTPW); Project Duration: 2022 to 2027** – This project consists of a 5-year work order-based contract to develop Highway projects and support DTPW throughout Miami-Dade County. Preliminary projects identified include widening and resurfacing of arterial and collector roadways. BCC will primarily support in the areas of planning, design and engineering, public involvement, right-of-way and utilities coordination, construction, project control, estimating services, plans review and quality assurance. Project Role: ITS EOR.



**Years of Experience**  
14

**Years of Post Registration Experience**  
7

**Years working with BCC**  
Since 2017

**Education**  
MS in Civil Engineering, 2013  
New Jersey Institute of Technology  
BS in Civil Engineering, 2010  
Florida International University

**Registration**  
Professional Engineer  
Florida No. 85282, 2018  
Texas No. 134603, 2019  
Georgia No. 044560, 2019

**Certification**  
IMSMA Traffic Signal Field Technician Level II



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## William Garcia, PE

Senior Project Engineer

Mr. Garcia has 29 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 \$500 million. Mr. Garcia is responsible for overseeing the construction operations, administration, management, quality assurance, and monthly and final estimates of the projects. Duties have included 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.

### Project Experience

**Atlantic Boulevard Interchange Improvements, MP 8, SR 869 / Sawgrass Expressway; FPID 443956-1-52-01; Broward County, FL; Client: Florida's Turnpike Enterprise; Reference: Pablo Rodriguez, PE (646) 522-4613, pablo.rodriguez@dot.state.fl.us; Project Duration: 12/22 to Present** – The project widens 1.486 miles of the Sawgrass Expressway from 6 to 10 lanes and includes the full reconstruction of the Atlantic Boulevard interchange to elevate by approx. 2 feet to resolve periodic flooding. Improvements include roadway widening, milling, and resurfacing; two new concrete bridge structures spanning over Atlantic Blvd including 45" FIB prestressed beams and 24-inch driven pile foundations; MSE Walls; rehabilitation of the existing SFWMD C-14 canal concrete culvert; extensive drainage improvements including multiple canal outfalls and a HDPE cut-off / impoundment wall around Pond 9-1; signing and pavement marking improvements including 4 cantilevered sign structures; roadway lighting; and ITS improvements including 144-ct trunk line FOC, wrong way vehicle detection systems, and multiple devices. Improvements on Atlantic Blvd between the Trailhead Access Road and NW 121st Terrace include widening from 4 to 6 lanes including bike lanes; milling and resurfacing; roadway lighting; ITS; and extensive signalization including 9 mast arms. Extensive coordination with SFWMD, CSID, Broward County Traffic Engineering, and multiple stakeholders. \$72.5 Million conventional construction contract. Project Role: Senior Project Engineer.

**Wrong Way Vehicle Detection System Implementation-South Florida; FPID 434968-2-52-01; Miami-Dade, Broward, and Palm Beach Counties, FL; Client: Florida's Turnpike Enterprise; Reference: Jaime Gomez, (954) 934-1131; jaime.gomez@dot.state.fl.us; Project Duration: 9/2021 to 2/2024** – The design, construction, integration, and testing of a solar powered and wireless WWVDS system at 41 locations covering 48 exit ramps on SR 821/HEFT, SR 91/Turnpike Mainline, and SR 869/Sawgrass Expressway. The WWVDS devices monitor, detect, and deter wrong-way drivers, and notify FHP and TMC staff for appropriate response. Extensive coordination with FTE Production, Design Build EOR, SFWMD, TMC, and PIO. \$5.5 million Design-Build contract. Project Role: Senior Project Engineer.

**Widening of SR 821 / HEFT from SW 72nd Street to Bird Road; FPID 427146-1-52-01; Miami-Dade County, FL; Client: Florida's Turnpike Enterprise; Reference: Rachel Panchookian, (954) 934-1128; rachel.panchookian@dot.state.fl.us; Project Duration: 2014 to 3/2021** – 2.1-mile widening and reconstruction of the HEFT to five general purpose lanes in each direction. Project included replacing the mainline toll facilities with a new AET toll gantry and pre-cast equipment building site; a new northbound two-lane exit ramp bridge to Bird Road over the C-2 Canal; 0.9-mile widening and reconstruction of SW 117th Avenue; widening and reconstruction of Bird Road; widening of eight existing bridges with driven and micro-pile foundations; and the demolition of one bridge and the Northbound Bird Road Toll Plaza Building. The existing Southbound Bird Road Administration Building was modified with the demolition of the existing tunnel and elevator, and modifications to the existing mechanical, electrical, HVAC, plumbing, and security systems. Extensive ITS installation including over 26,600 lf of 144-ct fiber optic cable, over 6,300 lf of 12-, 24-, and 48-ct fiber optic laterals, 4 new electrical service points with 4 emergency back-up generators and 1 SCADA monitoring system, 10 MVDS devices, 7 CCTV cameras, 2 mainline DMS's, and 2 arterial DMS's. Other activities include pre-cast sound wall with auger-cast piles; MSE and shoulder-mounted sound wall construction; asphalt milling, resurfacing and overbuild; drainage; roadway lighting; signalization; guardrail; signage; and water main relocation for MDWASD under a JPA. Extensive coordination with multiple state, county, and city agencies, utility owners, and private stakeholders on this \$55 million Design-Build contract. Project Role: Senior Project Engineer.



**Years of Experience**  
29

**Years of Post Registration Experience**  
24

**Years working with BCC**  
Since 2008

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

**Registration**  
Professional Engineer  
Florida No. 56781, 2001

**Certifications**  
CTQP ID No. G620-920-20  
FDOT CTQP Q.C. Manager  
FDOT CBT Auger Cast Pile  
(Self-Study)  
FDOT CBT Closed Caption  
Television (CCTV)  
FDOT CBT Critical Structures  
Construction Issues Course  
FDOT CBT Dynamic Message  
Signs (DMS)  
FDOT CBT Fiber Design CBT  
FDOT CBT Microwave Vehicle  
Detection MVDS  
FDOT CBT MSE Wall  
(Self-Study)  
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)  
FDEP Stormwater, Erosion and  
Sedimentation Control Inspector  
HAZMAT Certification  
Nuclear Gauge Safety Certified  
OSHA 30-Hour Construction  
Safety & Health Training



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**BRYAN MERRITT, PSM**  
Principal Surveyor



**PROFILE**

Bryan Merritt is Vice President of Geospatial at KEITH. He is responsible for overseeing all geospatial operations, including survey and subsurface utility engineering (SUE) for the company. This role involves strategic planning; project management; ensuring accuracy and quality of data; leading KEITH'S team of surveying, mapping, and utility specialists; managing budgets; and collaboration with other departments/disciplines to support the KEITH company goals. Bryan also manages the evaluation and assessment of equipment and technology resources, assists in training and mentorship to team members, and provides leadership in the preparation of business development strategies for existing and new markets/geographies.

**RELEVANT PROJECT EXPERIENCE**

**Continuing Contract - Survey, Pompano Beach, FL:** Principal. KEITH is currently providing general surveying and mapping services to the municipality on an as-needed basis on this ongoing continuing services contract. KEITH has served as the General Surveying Consultant for the City for nearly 20 years.

**Miscellaneous City of Pompano Beach CRA Services, Pompano Beach, FL:** Principal. KEITH is currently providing general engineering, surveying and mapping, landscape architecture, and planning services to the CRA on an as needed basis on this ongoing continuing services contracts.

**Continuing Professional Services, Fort Lauderdale, FL:** Principal. KEITH has been providing surveying and mapping and civil engineering services to the City of Fort Lauderdale on an as-needed basis since 2007. Some projects provided under these contracts include: ADA Compliance Design Surveys (Eisenhower Blvd, Las Olas Circle, etc.), Peele Dixie Water Treatment Plant Engineering Design Surveys, Boundary and Topographic Surveys (SE 15th Street Boat Ramp, Mills Pond Park), FLL Taxiway Golf Relocation FAA Survey Submittal Assistance, River Oaks Preserve Topographic Survey, and various Water Main Improvements (Davie Boulevard, Bermuda Riviera).

**Macarthur Causeway Water Main Upgrades Design, Miami, FL:** Principal. KEITH will provide Topographic Survey and SUE (Subsurface Utility Engineering) services for Hazen and Sawyer in a two-phase project. The first phase involves site investigation and data collection to perform the required topographic survey, which includes code requirements, right-of-way lines, property lines, existing easements, utilities, and trees. In the second phase, KEITH will provide SUE services, including horizontal locations of existing utilities and vacuum excavation and location services. The project aims to replace the existing 20" water main due to its age with an upsized 30" water main, spanning approximately 9,200' linear feet along the MacArthur Causeway. The 30" water main will extend from the Miami-Dade Water and Sewer Department meter on Watson Island east to the Booster Pump Station on Terminal Island.

**Water and Re-Use Treatment Plant Projects CSC, Pompano Beach, FL:** Principal. KEITH, as a subconsultant, assists in the development of water and re-use water treatment plant projects on an as-needed basis. KEITH assists the Client with survey, SUE, and landscape architecture services. The KEITH Team assists the Client with topographic survey, specific purpose survey, subsurface utility engineering, site plan processing, paving, grading, and drainage, erosion plan, water distribution and sanitary sewer, engineering permitting, landscape architecture plans, construction observation, and construction certification.

**EDUCATION**

1983  
AS, Civil Engineering,  
Monroe Community College

**YEARS OF EXPERIENCE**

Industry: 43  
KEITH: 1

**PROFESSIONAL REGISTRATIONS**

Professional Land Surveyor,  
LS6558, FL, 2006

Professional Land Surveyor,  
050050, NY, 1993

FAA Remote Pilot Small  
Unmanned Aircraft System,  
4225999, 2019

**PROFESSIONAL AFFILIATIONS**

Chair Advisory Committee  
- Geomatics Engineering  
Florida Atlantic University

Village of Royal Palm  
Beach Program for Public  
Information Committee,  
Board appointed Palm  
Beach County GIS Board  
Member

Trail Boss Florida Off Road  
Cycling Enthusiasts (FORCE)  
Pinehurst Trail

South Florida GIS Expo  
committee Exhibits Chair



**CHUCK SCHRAMM, PSM**  
Project Surveyor



## PROFILE

With nearly four decades of geospatial experience, Chuck Schramm's leadership brings valuable insights, streamlines data collection, and improves the overall accuracy and efficiency of our projects. With his guidance, our survey team is poised to achieve new heights in quality and impact. His responsibilities include daily operations of the surveying department, estimating, project progress reporting, coordination with other departments and clients, and business development. He also has extensive experience with a variety of engineering and surveying-related computer software, including Bentley OpenRoads Designer (ORD), MicroStation, and GEOPAK, and has experience in NPDES documentation.

## RELEVANT PROJECT EXPERIENCE

**Cypress Road Improvements, Plantation, FL:** Project Surveyor. Under a continuing services contract, KEITH supported the City on this KEITH Access project involving signal upgrades, milling and resurfacing, roundabout design, drainage improvements, added sidewalk, and corridor-wide sharrow markings and signage. KEITH provided survey, SUE, civil engineering, landscape architecture, and transportation services, including topographic survey; utility designation, location, and mapping; preliminary and final civil design; construction documents; permitting; roadway and drainage design; TTCP; and landscape/irrigation plans. KEITH also managed subconsultants for lighting analysis/design and geotechnical services.

**North Wastewater Treatment Plant, Sanford, FL:** Project Surveyor. KEITH delivered a comprehensive suite of surveying and geospatial services at the North Wastewater Treatment Plant for the City of Sanford. The team provided full boundary and topographic surveys, advanced GIS mapping services, and detailed utility investigations. Leveraging cutting-edge technology, KEITH utilized unmanned drone flights to capture high-resolution aerial LiDAR data. KEITH used photogrammetry to create an orthomosaic tied to control to create a basemap and to spot check for any missing topo features, while Ground Penetrating Radar (GPR) and electromagnetic equipment were employed to accurately locate underground utilities.

**Layne Blvd Water Main Improvements, Hallandale Beach, FL:** Project Surveyor. KEITH is assisting the City of Hallandale Beach on the KEITH Access project to replace an aging 8-inch ACP water main with a new 10-inch main along 4,650 LF of Layne Boulevard. The upgrade addresses 1960s-era infrastructure, including portions within the GISND, while all utilities within the ROW remain under City management. Work includes replacement of domestic water services up to meters or within 5 feet of sidewalk, fire services up to existing DDCVs or within 5 feet of sidewalk, and full replacement of fire hydrants with potential additions to meet spacing requirements. The project enhances system reliability, fire protection, and overall water infrastructure performance.

**Stormwater Improvements, Ravenswood Interconnection, Fort Lauderdale, FL:** Project Surveyor. KEITH is assisting the Client with a KEITH Access project under this continuing services contract for airport utilities and pavement projects. The project encompasses a comprehensive scope of tasks aimed at enhancing the existing drainage infrastructure by connecting the Northern and Ravenswood Drainage Basins at FLL Airport to alleviate flooding happening on the north side of the airport. KEITH provides civil engineering, SUE, and survey services to the Client. The KEITH Team is assisting the Client with all necessary engineering design services and utility coordination to facilitate the required stormwater improvements at the Ravenswood Interconnection.

## EDUCATION

1988  
BS, Survey and Mapping,  
University of Florida

1984  
Courses Completed, Florida  
Institute of Technology

## YEARS OF EXPERIENCE

Industry: 37  
KEITH: 2

## PROFESSIONAL REGISTRATIONS

Professional Land Surveyor,  
LS5366, FL, 1994



**MARK MITCHELL**  
Task Manager



### PROFILE

As Director of Subsurface Utility Engineering (SUE) for KEITH's Utilities Division, Mark Mitchell is responsible for oversight of the day-to-day operations of all subsurface utility engineering projects, along with utility records research, conflict analysis, and determining if additional utility investigation is needed for assigned projects. He has completed projects from beginning phases through final delivery, including preparing and submitting fee proposals, client coordination, setting up projects for field crews, conducting field visits when troubleshooting is required, downloading and processing collected data, performing quality control, finalizing for delivery, and keeping clients informed daily. His experience includes creating DTMs, topos, TIN models, PNCs, and test hole summary spreadsheets. Mark serves as a liaison between the design team, utility agencies, and owners on behalf of clients to provide utility coordination, documentation, inter-coordination, and maintenance of files of all activities for each utility agency.

### EDUCATION

1992  
AA, Arts, Saint Petersburg  
College

### YEARS OF EXPERIENCE

Industry: 26  
KEITH: 12

OHS Construction Induction  
Training Certificate

OSHA Confined Space Entry

Rail Industry Safety Induction  
(RISI)

CSX Certified Safety  
Facilitator

OSHA 40-Hour Safety  
Training

### RELEVANT PROJECT EXPERIENCE

**Pumping System & Septage, Fort Lauderdale, FL:** Task Manager. Broward County Water and Wastewater Services required upgrades to its Septage Receiving Facility as part of the County's Capital Improvements Program. Improvements included new booster pumps, backup generator, truck clean-out station, a new building, and repurposing the existing building to reduce O&M costs. KEITH provided topographic survey of the parcel, documenting above-ground features and accessible interior/subsurface equipment, along with horizontal designation and test holes to locate utilities. KEITH's civil team prepared site plan, paving, grading, and drainage plans addressing landscape buffers, parking, fire access, and regulatory requirements, including SWPPP. KEITH also handled permitting and CEI services. Landscape architecture services included tree inventory and appraisal, tree disposition, landscape and irrigation plans, and observation.

**Water Service Material Validation, Pompano Beach, FL:** Task Manager. Under this continuing services contract, KEITH provided civil engineering, survey, SUE, landscape architecture, and construction program management services. The project supported EPA Lead and Copper Rule Improvements (LCRI) compliance by identifying and validating water service line materials within the County's drinking water system. KEITH performed predictive modeling, field investigations, visual inspections, and vacuum excavations, integrating all verified data into BCWWS's GIS. The team also utilized Trinnex LeadCAST to enhance predictive modeling and support data-driven decision-making.

**SW 30th Street Sanitary Sewer Force Main Replacement, Pembroke Park, FL:** Task Manager. KEITH is assisting the Client on a KEITH Water project involving replacement of a 6" ACP sanitary sewer force main, which will be capped, grouted, and abandoned in place. The project includes installing approximately 4,000 LF of 8" gravity sewer main, 2,000 LF of force main, and constructing two public pump stations along SW 30th Street from SW 33rd Avenue to SW 46th Avenue, consistent with the Town's Wastewater Master Plan. All existing pump stations tied to the 6" ACP will be transitioned to the new gravity system. KEITH is providing civil engineering, survey, SUE, and construction program management services, including topographic survey, utility location, civil design, DRC submittals, construction documents, on-site observations, inspections, and certification. This project enhances system reliability and improves wastewater service for the community.

## ALEJANDRO GARI, PE

### PRINCIPAL PROJECT ENGINEER

Alejandro (Alex) 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.

### Work Experience

**Intelligent Transportation System Engineer of Record. Florida Department of Transportation District 4, Continuing Service Contract (CA065), Florida, United States. 04/2024-01/2026.**

**Employer: Parsons**

Parsons is working on a continuing contract for a series of engineering projects, including highway design, bridge and structural design, traffic engineering studies, environmental, mapping and surveys, geotechnical, landscape architecture, and intelligent transportation system analysis, design, and implementation. Alex is responsible for managing and leading three advanced wrong-way detection system task work orders, which consist of designing 28 off-ramps for the I-595 and I-95 corridors. Tasks include reviewing electrical and communications as-built plans to tie the proposed equipment to the existing system's electrical and fiber backbones, preparing and submitting all documents and files in accordance with client requirements, and communicating with the client and the design team.

**Electrical Engineer of Record. Florida Department of Transportation District 5, Transportation Systems Management and Operations Program (CAJ70), Florida, United States. 01/2023-11/2025.**

The Transportation Systems Management and Operations Program endeavors to provide a safe transportation system that ensures the mobility of people and goods, enhances economic prosperity, and preserves the quality of the environment and communities. Parsons is providing professional design and construction contract document preparation, including plans, specifications, an engineering analysis, calculations, and other technical documents. Alex is responsible for performing the electrical engineering design for pedestrian detection systems for all bascule bridges within Florida Department of Transportation District 5, including preparing process data acquisition, recording electrical calculations, and conducting field inspections.

**Electrical Project Engineer. Miami-Dade County Department of Transportation and Public Works, South Dade TransitWay Corridor (South Corridor) Bus Rapid Transit, Miami, Florida, United States. 10/2022-11/2025.**

Parsons is the lead designer for the South Corridor, one of six proposed corridors in the Strategic Miami Area Rapid Transit Plan to improve transportation mobility in Miami-Dade County and the South Florida Region. The project is being developed entirely within the existing public right-of-way generally defined by the existing South Dade Transitway Corridor. The project area extends approximately 20 miles between the Dadeland South Metrorail Station and SW 344th Street in Florida City, along with adjoining stations and 47 roadway crossings. The scope includes designing and



### YEARS OF EXPERIENCE

Total: 15

With Parsons: 3

### EDUCATION

- Bachelor of Science, Electrical Engineering, Georgia Institute of Technology (Georgia Tech), Georgia, 2009

### REGISTRATIONS

- Professional Engineer, 79281, Florida
- Professional Engineer, 107360, New York
- Professional Engineer-Electrical, 33931, Kentucky



constructing 14 new bus rapid transit stations at existing bus shelter locations, demolishing existing bus shelter and ancillary structures, rehabilitating approximately 16 existing transitway stations to remain in place, and constructing a new 636-space park-and-ride garage integrated with the bus rapid transit station at SW 168th Street. The project uses a full design-build delivery approach that includes design, permitting, construction, and commissioning. The project has achieved Envision Gold Award by incorporating sustainability into the infrastructure design and construction, and a sea level rise analysis has been prepared to ensure that the project is designed and constructed in accordance with expected sea level rise projections during its useful life of 50 years, using regionally consistent unified sea level rise projections. Alex is responsible for the design of the electrical power service for the intelligent transportation system, traffic signals, gates, and lighting, including verifying that voltage drop, wire size, and conduit sizes all comply with the National Electrical Code. Also responsible for preparing comment responses, markups, and request-for-information responses regarding the electrical design.

**Electrical Engineer. Miami-Dade County Water and Sewer Department, Booster Pump Station 0425 Upgrade (E15-WASD-04), Miami, Florida, United States. 03/2023-04/2024.**

Parsons is providing engineering and design services for rehabilitating and upgrading Pump Station 0425 located at 19201 NE 29th Avenue, Aventura, Florida, which was built in the early 1980s. Alex was responsible for attending comment resolution meetings and performing quality control reviews on the electrical design.

**Electrical Engineer. Miami-Dade County, Ocean Outfall Legislation for Central District Wastewater Treatment Plant Conceptual Design Report, Key Biscayne, Florida, United States. 01/2017-12/2017.**

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. In addition, the ocean outfall pump station was upgraded to eight 500-horsepower motors and required the analysis of the existing electrical system for possible upgrades. It was determined that the existing electrical system could accommodate the increased capacity. Responsible for developing a high-level single-line diagram for each existing and new substation included in the conceptual design report. A presentation was given to the head facility electrician for approval.

**Electrical Engineer. South Florida Water Management District, B-134 Paint Mix Room Replacement, West Palm Beach, Florida, United States. 11/2016-04/2017.**

The project involved demolishing the existing paint mix room for South Florida Water Management District's West Palm Beach field station facility. Alex inspected the existing electrical system, which was reused with minor modifications. Due to the hazard classification of the materials within the paint mix room, all the proposed electrical equipment was designed as explosion proof. The existing electrical system was slightly modified to minimize costs and significant changes to accommodate the new exhaust fans and other miscellaneous electrical loads. Due to the height of the exhaust pipe above the roof of the adjacent building, the adjacent building lightning protection system was redesigned to meet the requirements of National Fire



Protection Association Standard NFPA 780 for the installation of lightning protection systems.

**Electrical Engineer. City of Lauderhill, New Emergency Generators, Lauderhill, Florida, United States. 04/2016-11/2016.**

This project involved adding emergency diesel generators to Lift Stations 9, 17, 18, and 21. Alex redesigned the electrical service to combine the Florida Power & Light feed and the emergency generator feed via an automatic transfer switch. The controls and remote terminal unit were modified to include relays to communicate, via supervisory control and data acquisition, when the generators are activated. Responsibilities included performing electrical calculations, including short-circuit studies, arc flash analyses, generator sizing to withstand the initial inrush current demands, and control transformer resizing.

**Electrical Engineer. Miami Dade Water and Sewer Department, Consent Decree Project Management/Construction Management Program Pump Station Upgrades, Miami, Florida, United States. 09/2015-05/2016.**

The project involved performing structural, mechanical, and electrical upgrades to Pump Stations 710, 0441, 0827, and 0890, including demolition of the existing pump stations. The client requested upgrading the existing pump station electrical service from a three-wire, single-phase 120/240V system to a four-wire, three-phase 277/480V wye system. Alex requested the available fault current of the new three-phase transformers from Florida Power & Light (FPL) to perform the short-circuit analysis and arc fault calculations for properly sizing the proposed electrical equipment. An issue arose with FPL's estimated three-phase installation time, which would delay the project. Alex proposed a solution of temporarily installing a single-phase to three-phase converter which would be removed once FPL had the three-phase system available. The solution saved the client time and money.



**GAYLE L. STONE, MS**  
Senior Scientist

**GAYLE L. STONE, MS**  
Senior Scientist

**FIRM:**  
RES

**AVAILABILITY:**  
40%

**YEARS OF EXPERIENCE:**  
32

**YEARS WITH OTHER  
FIRMS:**  
18

**EDUCATION:**  
MS, Marine Biology,  
Nova Southeastern  
University, Fort  
Lauderdale, Florida,  
1997

BA, Biology and  
Music Double Major,  
Skidmore College,  
Saratoga Springs,  
New York, 1987

**REGISTRATIONS/  
CERTIFICATIONS:**  
PADI Scuba  
Certified No.  
9111278063

Ms. Stone is an environmental consultant and ecologist. Her main areas of expertise include preparation of National Environmental Policy Act (NEPA) documents, wetland delineations, wetland functional assessments, protected species surveys and environmental permitting. She has participated in numerous Project Development and Environment (PD&E) Studies for the Florida Department of Transportation (FDOT) and performed Environmental Assessments and Categorical Exclusions for municipalities, city housing authorities, community redevelopment agencies and county transportation agencies. Her additional project experience includes benthic/seagrass surveys, bird surveys, tree surveys, wetland and wildlife monitoring and construction permit compliance inspections.

**RELEVANT EXPERIENCE:**

**DISTRICTWIDE MITIGATION, WILDLIFE AND ENVIRONMENTAL SUPPORT SERVICES | FDOT DISTRICT FOUR, FLORIDA | FDOT DISTRICT FOUR | SENIOR SCIENTIST**  
| Ms. Stone assists the project manager with the diverse tasks associated with this contract including reviewing project deliverables such as NREs, NRE Tech Memos, Benthic Survey Reports, Florida bonneted bat Survey Reports, and other mitigation and wildlife deliverables.

**AVANT GARDE SIDEWALK LAP PROJECT | BROWARD COUNTY, FLORIDA | CITY OF HOLLYWOOD | SENIOR SCIENTIST** | This is a sidewalk improvement project related to the Safe Routes to School program for the Avant Garde Academy in Hollywood, Florida. The project included the design and NEPA evaluation for completing the missing sections of concrete sidewalks along both sides of roads for a total of 13,225 linear feet in 26 different blocks within 0.71 miles of the school. RES' role on this project was to evaluate sociocultural, contamination, natural resources and other environmental resource project effects. The environmental document was a CatEx 2, with back up memos for each environmental resource. Ms. Stone was the senior scientist and provided coordination with the FDOT on the NEPA compliance documentation.

**TARPON RIVER RESTORATION | CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA | CITY OF FORT LAUDERDALE | SENIOR SCIENTIST** | RES has been engaged by the City of Fort Lauderdale to develop a restoration plan for sediment/debris removal (dredging) following wastewater discharges into the Tarpon River. Ms. Stone coordinated with the environmental regulatory agencies and advised on the requirements for environmental permitting, including justification for maintenance dredging, overseeing design and methods for a benthic/seagrass survey using video, and development of a dredging plan, including measures for turbidity control and protected

species. A Letter of Permission from the USACE, a Maintenance Dredging Exemption from FDEP and

**GAYLE L. STONE, MS**  
Senior Scientist

an Environmental Resource License from Broward County Environmental Protection and Growth Management Department will be acquired for the restoration.

**GENERAL ENVIRONMENTAL ENGINEERING SERVICES | CITY OF FORT LAUDERDALE, FLORIDA | CITY OF FORT LAUDERDALE | SENIOR SCIENTIST** | The City of Fort Lauderdale seeks CBDGs from the HUD to improve quality of life through neighborhood enhancement projects. Ms. Stone conducts environmental reviews and prepares the NEPA Statutory Worksheets for projects that are categorically excluded under NEPA, such as decorative street name posts, entryway monuments, brick paver crosswalks, decorative lighting and landscaping. She also assisted the City of Fort Lauderdale with an Area-Wide Floodplain Management Eight-Step Decision Making Process by developing a flow chart for types of projects that have a negligible effect on the environment. The Process included preparing early and final public notices for publication and recommending the implementation of standard industry protocols to minimize potential adverse impacts within the floodplain.

**RIVER OAKS PRESERVE STORMWATER PARK | CITY OF FORT LAUDERDALE, BROWARD COUNTY, FLORIDA | CITY OF FORT LAUDERDALE | SENIOR SCIENTIST** | The purpose of the project is to create a passive stormwater park with wetland features to relieve flooding in the River Oaks neighborhood and provide for passive recreational use. Ms. Stone performed the wetland delineation and assisted with master site planning to preserve and enhance forested wetlands on site and restore herbaceous wetlands to a filter marsh community. The recreational portion of the project includes relocating an historic railroad bridge to the site as part of a natural boardwalk.

**SEAWALL REPAIR AT FLEET MANAGEMENT | CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA | CITY OF MIAMI BEACH | SENIOR SCIENTIST** | The project is the replacement of the 30-foot-deep seawall in the Main Channel to Government Cut near the Port of Miami to protect the upland property that services the City's public service vehicles. Ms. Stone designed a method to video survey the existing seawall for corals and prepared the Biological Assessment Report. She also coordinated with the agencies regarding a de minimis impact determination and acquired the environmental permits from USACE, FDEP and Miami-Dade County Coastal Resources Section.

**MOORING FIELD FEASIBILITY STUDY | CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA | CITY OF MIAMI BEACH | SENIOR SCIENTIST** | The City of Miami Beach has become a popular destination for boaters and Sunset Harbour, located between Maurice Gibb Memorial Park and Belle Isle, has experienced increased unregulated anchorage in recent years. The City wishes to establish a mooring field in the area to regulate anchoring and thereby improve water quality. Biscayne Bay is an Aquatic Preserve, an Outstanding Florida Water and designated Critical Habitat for Johnson's seagrass, a federally threatened species. As part of the preliminary evaluation, Ms. Stone performed a reconnaissance benthic survey of the area and documented the regulatory permits required along with design and operational criteria of a managed mooring field.

**ETDM SUPPORT FOR I-95/ BROWARD BOULEVARD INTERCHANGE | BROWARD COUNTY, FLORIDA | FDOT DISTRICT FOUR | SENIOR SCIENTIST** | Ms. Stone provided technical support to FDOT for the Districtwide ETDM Support contract. For this project, Ms. Stone compiled the data from the Environmental Screening Tool and entered it into the ETDM screen. She also assisted in preparing the Preliminary Environmental Discussion.



**EMILY POWELL, MS**  
Scientist

**EMILY POWELL, MS**  
Scientist

**FIRM:**

RES

**AVAILABILITY:**

70%

**YEARS OF EXPERIENCE:**

9

**YEARS WITH OTHER**

**FIRMS:**

5

**EDUCATION:**

MS, Marine Biology,  
Nova Southeastern  
University, 2016

BS, Biology, Salisbury  
University, 2012 | BS,  
Environmental  
Science/Marine  
Science, University of  
Maryland Eastern  
Shore, 2012

**REGISTRATIONS/  
CERTIFICATIONS:**

Professional  
Wetland Scientist  
(PWS) #3913

Certified Wetland  
Evaluator (CWE)

FWC Authorized  
Gopher Tortoise  
Agent #GTA-24-  
00118

AAUS Scientific Diver

PADI Rescue Scuba  
Diver, CPR/AED/First  
Aid

Ms. Powell is a project scientist with experience in environmental resource permitting and compliance including reviewing and completing permit applications and engineer plans. Familiar with federal and state She conducts the following activities regularly: Field surveys for listed and endangered species, such as gopher tortoise and bonneted bats; benthic resource surveys for seagrass and coral; mangrove and wetland delineations; mitigation assessments (UMAM, WRAP, WATER, RATIO), on wetlands, mangroves and seagrass; monitoring activities at mitigation bank sites.

**RELEVANT EXPERIENCE:**

**HOLLYWOOD MOORING FIELD SUPPORT | CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA | BROWARD COUNTY | SCIENTIST |** Conducted various field assessments for seagrass and mangroves. Prepared various maps, and reports, including UMAM and WATER scores for existing mangrove conditions and an NRE for this project. This included coordination with the USACE, NMFS, SFWMD and FWS.

**WABASSO CAUSEWAY, HOBART, TREE TOPS PARK AND COASTAL OAKS MITIGATION FEASIBILITY AND PERMITTING | FDOT DISTRICT FOUR, INDIAN RIVER COUNTY, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST |** Assisted in conducting mitigation feasibility studies and projects for FDOT District Four exploring seagrass, wetland and mangrove mitigation options at various sites. Assisting with the field feasibility study that involves existing conditions surveys; coordination with the FDOT, SJRWMD; DEP; USACE; concept mitigation development; feasibility report, permitting, UMAM mitigation assessments for wetlands, mangroves and seagrass. Attend and participate in public meetings. Assist in drafting formal documents such as Natural Resource Evaluation (NRE). Prepare application packages.

**COUNTY ROAD 510 ROADWAY IMPROVEMENTS, | FDOT DISTRICT FOUR, INDIAN RIVER COUNTY, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST |** Conducted wetland delineations, habitat assessment, and initial listed species surveys for gopher tortoise and scrub jay. Assist with feasibility report, permitting, UMAM mitigation assessments for wetlands, and drafting formal documents such as Natural Resource Evaluation (NRE).

**SEVEN SEAWALLS PERMITTING | CITY OF MIAMI BEACH, MIAMI-DADE COUNTY, FLORIDA | BCC ENGINEERING | SCIENTIST |** Conducted mangrove tree delineation and surveys for several proposed seawall replacements. Prepared and submitted permit modifications with USACE and RER. Coordination with regulatory agencies, city and engineers to ensure plan set revisions and permit issuance.

**EMILY POWELL, MS**  
Scientist

**LITTLE PALM ISLAND POWER POLES REPLACEMENT | MONROE COUNTY, FLORIDA | LITTLE PALM ISLAND ASSOCIATES | SCIENTIST |** Conducted updated benthic survey, prepared updated Environmental Resources report. Prepared and submitted permit applications to USACE and DEP. Coordination with regulatory agencies and clients. Coordination with surveyor to update easement survey and legal. Coordination with DEP on items needed to take project to BOT Governor and Cabinet for approval and state lands issuance.

**ANGLER'S REEF MANGROVE TRIMMING | MONROE COUNTY, FLORIDA | ANGLER'S REEF PROPERTY OWNERS' ASSOCIATION, INC. | SCIENTIST |** Coordinated pre-application meeting with regulatory agencies. Prepared and submitted permitting applications and UMAM and WATER scores. Coordination with SFWMD, USACE, and FPL mitigation bank to ensure credit reservation and permit issuance. Assistance with modifying existing mitigation area and conservation easement.

**FLORIDA KEYS AQUEDUCT AUTHORITY MARY RICE SERVICE CENTER | CITY OF MARATHON, MONROE COUNTY, FLORIDA | FLORIDA KEYS AQUEDUCT AUTHORITY | SCIENTIST |** Conducted mangrove and wetland delineation, habitat assessment, and initial listed species surveys. Prepared maps, and reports including WATER and UMAM scores of existing conditions. Coordinated and participated in SFWMD and USACE pre-application meetings. Prepared and submitted permit application packages. Coordination with regulatory agencies and mitigation banks.

**PARCO MARE MANGROVE MITIGATION MONITORING | BROWARD COUNTY, FLORIDA | RILEA GROUP | SCIENTIST |** Conduct quarterly mangrove measurements and monitoring. Prepare and submit quarterly monitoring reports to the County and annual monitoring reports to USACE.

**SR-842/BROWARD BOULEVARD; FM: 436564-1 LOXAHATCHEE ROAD | FDOT DISTRICT FOUR, BROWARD COUNTY, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST |** Conducted various Florida Bonneted Bat Limited Roost Surveys, coordinated findings with the FDOT, and conducted an informal consultation with the FWS, and completed associated reports.



**KATHERINE LARSSON, MS**  
Scientist

**KATHERINE LARSSON, MS**  
Scientist

**FIRM:**  
RES

**AVAILABILITY:**  
70%

**YEARS OF EXPERIENCE:**  
6

**YEARS WITH OTHER FIRMS:**  
4

**EDUCATION:**  
MS, Marine Science,  
Biology &  
Environmental  
Science, Nova  
Southeastern  
University, 2022

BS, Biology, Marine  
Biology &  
Environmental  
Science, Saint Francis  
University, 2018

**REGISTRATIONS/  
CERTIFICATIONS:**  
PADI Master Scuba  
Diver Trainer  
#393414

EFR CPR & First Aid  
Instructor

Certified FDEP  
Stormwater, Erosion,  
and Sedimentation  
Control Inspector  
#56500

Ms. Larsson is a scientist with experience in mangrove and wetland delineations, mitigation monitoring, threatened & endangered species surveys (Florida bonneted bat, Florida scrub jay, and gopher tortoise), construction and compliance observations, benthic resource surveys, due diligence reports, and environmental permitting for federal, state, and local agencies. She is a certified PADI Instructor with over 11 years of diving experience with extensive knowledge of diving techniques and scientific diving applications in freshwater and marine environments. Ms. Larsson has been trained in sampling and analytical techniques for field data collection, water quality sampling and assessment along with species identification, including coral, octocorals, seagrass, fish, mangroves, and wetland species.

**RELEVANT EXPERIENCE:**

**HOLLYWOOD OUTFALL BENTHIC | CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA | BCC ENGINEERING | SCIENTIST |** The City of Hollywood is proposing to design a stormwater pump station for drainage systems between Iris Terrace and Daffodil Terrace in Hollywood, Broward County, Florida. RES was engaged as a sub to BBC Engineering to conduct a benthic resource survey in support of the permit application. Ms. Larsson assisted with conducting the benthic resource survey and associated report.

**HOLLYWOOD MOORING FIELD SUPPORT | CITY OF HOLLYWOOD, BROWARD COUNTY, FLORIDA | BROWARD COUNTY | SCIENTIST |** RES is providing environmental and engineering support for the City of Hollywood to develop a mooring field. The scope of this project includes agency meetings, evaluating management options, and upland support facilities. Ms. Larsson assisted with the benthic resources survey and preparation of the associated reports.

**TREE TOPS PARK MITIGATION | BROWARD COUNTY, FLORIDA | FDOT DISTRICT FOUR | SCIENTIST |** The 33-acre site is a county-owned park, which will be developed into a wetland mitigation site in partnership with District Four. Due to the urbanized nature of Broward County and District Four, this site with contiguous wetlands outside of our project area was found to be a high priority for restoration and based upon preliminary mitigation planning. The site has a high credit yield for its location and size, compared to the other sites evaluated and available for District use. Ms. Larsson is assisting with the mitigation scoring to achieve excess freshwater wetland mitigation credits for the district's sole use.