Brown AND Caldwell

STATEMENT OF QUALIFICATIONS | Prepared for City of Riviera Beach

Owner's Representative Construction Management Services

August 18, 2020 | RFQ#995-20-2

FOCUSED on Riviera Beach

Proven Partnership. Trusted Solutions.

1475 Centrepark Boulevard, Suite 210
West Palm Beach, FL 33401
561.684.3456
www.brownandcaldwell.com

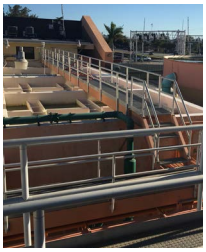
August 18, 2020

Ms. Althea Pemsel, MA, CPSM, Procurement Director
City of Riviera Beach Office of the City Clerk
600 West Blue Heron Boulevard, Suite #140,
Riviera Beach, FL 33404

Subject RFQ No. 995-20-2: Owner's Representative Construction Management Services

Dear Ms. Pemsel,

FOCUSED
on Riviera Beach
Proven Partnership.
Trusted Solutions.



The Brown and Caldwell (BC) team is pleased for this opportunity to partner with the City of Riviera Beach to serve as its Owner's Representative. We have assembled a team that is committed and focused on Riviera Beach. Our team will develop and oversee delivery of the City's projects to meet its functional, schedule and budget control priorities.

Having had the opportunity to support the City in wide-ranging matters over the past two years, we believe we have proven ourselves to consistently represent the City's best interest with the development of effective solutions and responsive service. Key benefits of our team include:

- Integrated engineering, consulting and construction experience for diverse end uses (utilities, public safety, administration/maintenance, recreation facilities);
- BC has a construction division, BC Constructors, with a bonding capacity of $60 million for individual projects;
- Proven team of professionals with a demonstrable track record of excellent service delivery that are well known and respected by the City and the industry;
- Continuity to support expedited delivery of critical water treatment plant improvements.

We have formed a robust team with subconsulting partners that offer diverse and complementary capabilities, a successful history of delivering projects, and important knowledge of your system. Our subconsulting partners reflect our commitment to partnering with the small business community with a commitment of 26% to minority/women business enterprises and three Riviera Beach headquartered businesses being represented.

For over 73 years, BC has led important innovation in our industry. Our highly capable resources and track record of impactful service are integral to our success. We understand the critical needs of your system and believe we are the team best positioned to combine our independent objectivity, nuanced perspectives and broad expertise with your goals to meet your expectations.

Upon reviewing our Statement of Qualifications, we trust you will conclude that the BC team is best equipped to support your continuing engineering needs.

Best regards,

BROWN AND CALDWELL

Albert L. Perez, PE
Vice President, Principal-in-Charge

Nigel Grace, PE
Client Service Manager

Brown AND Caldwell

PROJECT NAME:

Owner's Representative Construction Management Services

RFQ NO.: 995-20-2

NAME OF FIRM: Brown and Caldwell

ADDRESS: 1475 Centrepark Boulevard | Suite 210
West Palm Beach, FL 33401

TELEPHONE NUMBER: 954.200.7230

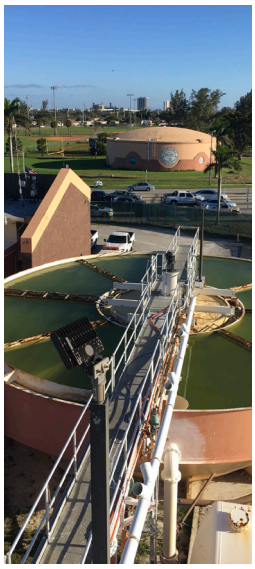
E-MAIL ADDRESS: NGrace@brwncald.com

CONTACT PERSON: Nigel Grace, PE

DATE OF PROPOSAL: August 18, 2020

FOCUSED on Riviera Beach

Proven Partnership.
Trusted Solutions.



Contents

A	Firm Qualifications, Location, and References	A-1
B	Project Team Qualifications	B-1
C	Past Experience	C-1
D	Approach to Scope of Work	D-1
E	Required Forms and Addenda	E-1

FOCUSED
on Riviera Beach

Proven Partnership.
Trusted Solutions.

SECTION A

Firm Qualifications, Location, and References

FOCUSED
on Riviera Beach

Proven Partnership.
Trusted Solutions.

Firm Qualifications, Location and References

A

Industry-Leading Environmental Engineering and Construction Management Capabilities

Brown and Caldwell (BC) is a full-service environmental engineering and construction firm with 52 offices and 1,600+ professionals across North America and the Pacific. For more than 73 years, our creative solutions have helped municipalities, private industry, and government agencies successfully overcome their most challenging water and environmental obstacles. As an employee-owned company, BC is passionate about exceeding our clients' expectations and making a difference for our employees, our communities, and our environment.

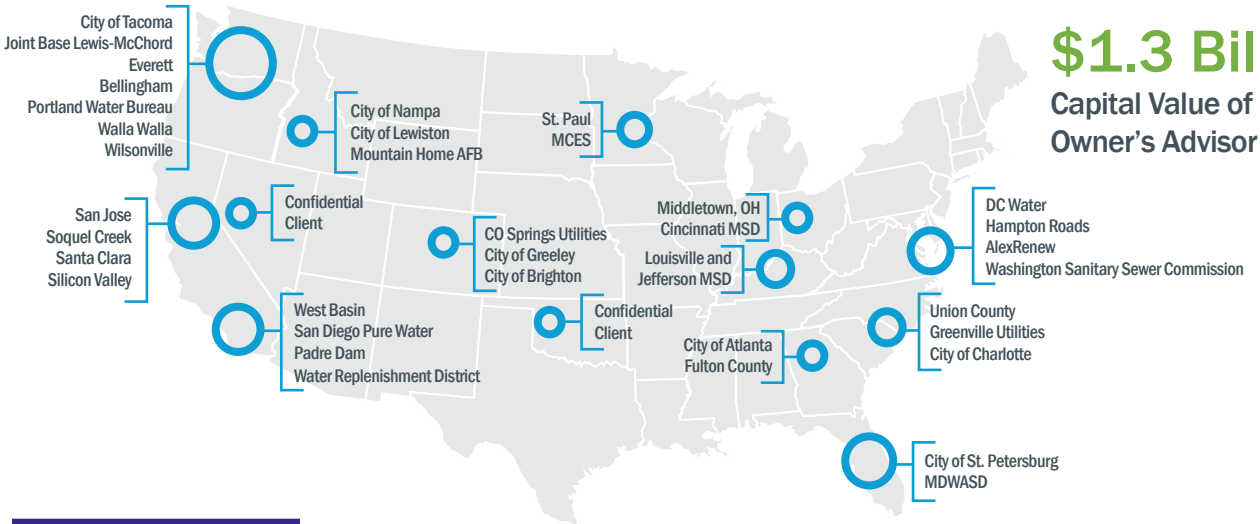
BC's proven track record of advising clients as Owner's Representative and providing construction management services, as well as our understanding of utility and municipal business processes, will benefit the City as you execute your Capital Improvement Plan (CIP) projects. BC understands that each project is unique, and there is not a "one size fits all" solution for every project in every situation but is part of an overall program for delivering utility capital projects to achieve community betterment.

Successful projects require planning and procurement excellence, proactive engagement of stakeholders and a broad grasp of the diverse issues that can impact overall success. To achieve success, public agencies turn to BC as owner's representative to execute their capital projects. In this role, we draw on our specialized expertise and knowledge of the market to support owners—helping you pick the strategy that best meets your needs; identifying the critical business and risk issues; developing the RFP to get the most favorable pricing; and providing efficient technical, procurement, and contractual advice. BC has served as owner's representative on more than 50 alternative delivery projects over the past 20 years, from some of the country's largest and most complex municipal utility projects. Whatever the size, scale, or complexity of your project, our team's hands-on experience provides you with the unique insights and knowledge necessary to make it a success.

Section Contents

This section includes our firm overview, details on our team and their roles, staffing and office location, references, and licenses for the firm and key personnel.

BC has a wholly owned construction company called BC Constructors that leads the construction delivery of improvements where necessary to support the implementation priorities of our clients across the US.



$1.3 Billion
Capital Value of Recent BC Owner's Advisor Projects

Full Service Team with Proven Performance

At-a-Glance Profile of our Subconsulting Partners: local Riviera Beach Business participation; proven history working together with Brown and Caldwell; local experience with Riviera Beach delivering municipal projects; all are small businesses, woman owned, and/or minority owned; and all have a strong reputation for excellence.

Depth and Breadth of Certified Expertise

Our subconsultants are local to Palm Beach County (PBC) and are certified to meet the City's technical requirements to provide a wide array of services. BC selected these teaming partners based on considerations including our history working together; their familiarity with your assets, preferences and expectations; and reputation for successfully delivering projects aligned with the areas of your anticipated need.

BC has a long history of supporting the small and disadvantaged business community as evidenced by consistently exceeding the goals we have committed to. The target participation identified for each firm is an estimate that could vary depending on the scope of project assigned under the proposed contract. While the allocation to individual firms could vary, **we have an unwavering commitment to meeting or exceeding the overall participation goal.**

Each of our teaming partners brings successful working relationships with Riviera Beach and/or BC.

We have allocated 26% of this contract to MBE/ SBE subconsultants.

Firm/Role/Certifications		Relevant Experience
Brown and Caldwell (BC) Prime		Extensive national and local engineering, construction management and Owner's Advisory experience including WPB, PBC, ECR, Broward, Sunrise, Hollywood, Miramar and MDWASD. Diverse Riviera Beach experience and knowledge of key priorities.
C Solutions (CS) Civil and Mechanical	8% MBE	Successful implementation of Riviera Beach infrastructure projects including pump station design and water treatment facility evaluations and criteria development. Riviera Beach business.
Colome & Associates (CA) Facilities and Landscape Architecture	5% WBE	PBC business with architectural experience with diverse municipal facilities including administration buildings, fire stations, police stations, libraries, utility operations /administration buildings and other public facilities. Riviera Beach experience.
Cotleur Hearing (CH) Site Planning & Development Review	2%	PBC business with site planning and development experience for diverse public and private projects including Riviera Beach Public Safety facility
Radise International (RI) Geotechnical and Testing	3% W/MBE	Multiple projects with BC in South Florida. Riviera Beach business.
Scalar Consulting Group Inc. (SCG) Transportation/Roadway Design	3% MBE	Completed several design projects in PBC and over 30+ in Florida. Riviera Beach business.
Engenuity Group (EG) Stormwater, Site/Civil, Land Surveying and Easements	5% MBE	Worked with BC on multiple survey assignments in PBC and Broward County. Extensive Riviera Beach experience.
Brown & Phillips (JLA) Surveying	2% SBE/ MBE	PBC firm providing a wide array of surveying services to public and private clients such as Riviera Beach, PBCWUD, FDOT, Broward County, WPB and SFWMD.

Staffing and Office Locations

BC excels in bringing the right resources to our clients.

Our firm's size enables us to customize solutions, and our culture encourages practical innovation. We collaborate as one with our clients and, in doing so, we have earned their respect and continuing trust. As a result, each member of our team has been specifically selected for this contract based on his/her technical expertise, prior working relationships with each other, and previously demonstrated ability to be responsive and reliable.

Our team is organized to be nimble and responsive to the City's needs. BC has three local offices in Palm Beach, Broward, and Miami-Dade Counties that collectively support our South Florida operations; they work seamlessly as one office. Service delivery for your projects will be managed out of our Palm Beach County office located at 1475 Centrepark Boulevard, Suite 210, West Palm Beach, FL 33401, under the leadership of **Nigel Grace, PE,** who will serve as Project Delivery Officer and your main point of contact. He will guide the delivery efforts of our local supporting team. Our West Palm Beach office is less than 20 minutes away from from the City of Riviera Beach Utilities Special District.

Jorge Jaramillo, PE, and **Mauricio Lara, PE,** will serve as the primary project management team, providing boots-on-the-ground support to your delivery teams. Supporting the leadership team will be several seasoned BC Project Delivery Leads with the experience and track record to successfully execute projects.

In addition to the South Florida offices, BC has three additional Florida offices in Orlando, Tampa, and Sarasota covering all thwe disciplines needed for the City of Riviera Beach projects. Beyond these local and regional resources, the City of Riviera Beach will have access to BC's deep bench of technical expertise nationwide, as well as additional resources to be sure every milestone is met and the City's objective is achieved on time.

The BC team offers a full service local team as well as a deep bench of national technical experts to ensure you have the resources needed to complete your projects.

7 local subconsultant partners
to complete our offerings

3 Riviera Beach firms

150+
local staff to serve the City

6 MBE/SBE firms

520+
combined years of experience

over **$.5 Billion**
construction projects completed

CSOLUTIONS bringing solutions to mind

Cotleur & Hearing

SCALAR Consulting Group Inc.

RADISE Infrastructure Engineers • Software Developers

Colomé & Associates, Inc.
Architecture □ Planning □ Interiors

A Higher Standard of Excellence engenuity group inc.

BROWN & PHILLIPS, Inc.
PROFESSIONAL SURVEYING SERVICES

Our References Confirm Delivery of Project Success

Our success depends entirely on your complete satisfaction with our service and meaningful community betterment being achieved. We are committed to partnering with you from goal setting through fulfillment of the City's priorities.

We have had the privilege of supporting the City of Riviera Beach over the past two years, tackling a diverse array of priorities ranging from utility compliance and performance reliability challenges to development planning, community engagement and environmental assessments – and a wide array of supportive advisory consulting. Through our efforts with the City, we believe our commitment to the City, technical resourcefulness, delivery effectiveness and efficiency, and responsiveness have been clearly evident.

These results were not achieved by chance. The commitment you've experienced is central to the BC approach with all our clients. As you engage our client references, you will see high impact advocacy and solutions is a common and resonant theme, for example:

1. Compliance program cost savings of approximately $200 million (Hollywood)
2. Effective Owner's Advisory support in implementation of a new membrane WTP (Miramar)

Reference contacts

Palm Beach County Water Utilities Department

Craig Irwin (Program Manager, Stantec)
8100 Forest Hill Blvd | West Palm Beach, FL 33413
T | 561.493.6024

City of Miramar

Ronnie Navarro, PE
139000 Pembroke Rd. | Miramar, FL 33027
T | 954.883.5845

Broward County Water and Wastewater Services

Greg Balicki, PE
2555 W Copans Road | Pompano Beach, FL 33069
T | 954.831.0903

Miami-Dade Water and Sewer Department

Humberto Codispoti, PE
3071 SW 38th Avenue | Miami, FL 33146
T | 305.275.3124

We are proud of our reputation for quality service and reliable solutions, and encourage the City to reach out to our clients and hear firsthand from our long-standing clients about the level of quality service received.

Professional Licenses

Firm Licenses

Brown and Caldwell

State of Florida
Department of State

I certify from the records of this office that BROWN AND CALDWELL (CORPORATION) is a California corporation authorized to transact business in the State of Florida, qualified on May 2, 1977.

The document number of this corporation is 838321.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on January 2, 2020, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Twenty-ninth day of May, 2020

Secretary of State

Tracking Number: 8364121845CU

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

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

Ron DeSantis, Governor

FBPE FLORIDA BOARD OF PROFESSIONAL ENGINEERS

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

BROWN AND CALDWELL
2301 LUCIEN WAY
SUITE 250
MAITLAND FL 32751

LICENSE NUMBER: CA2602
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

Florida dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD

THE GENERAL CONTRACTOR HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 489, FLORIDA STATUTES

VICARS, LARRY
BROWN AND CALDWELL CONSTRUCTORS, INC.
201 NORTH CIVIC DRIVE SUITE 300
WALNUT CREEK CA 94596

LICENSE NUMBER: CGC032821
EXPIRATION DATE: AUGUST 31, 2020
Always verify licenses online at MyFloridaLicense.com

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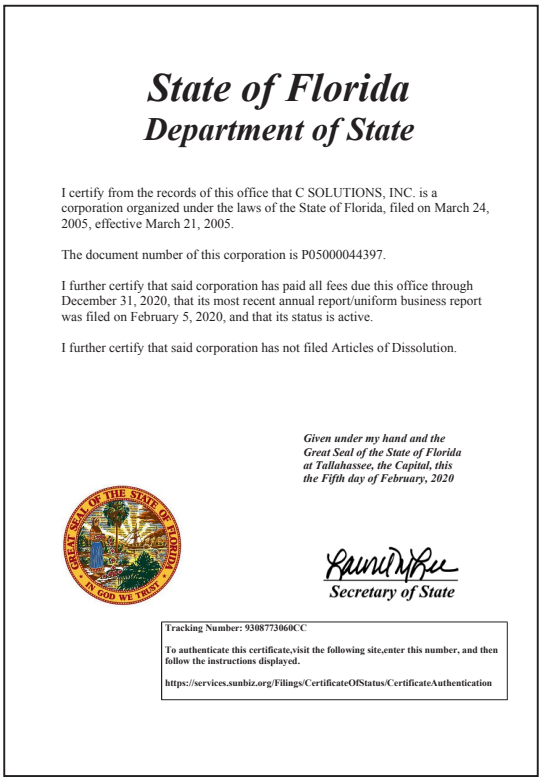
C Solutions



State of Florida
Department of State

I certify from the records of this office that C SOLUTIONS, INC. is a corporation organized under the laws of the State of Florida, filed on March 24, 2005, effective March 21, 2005.

The document number of this corporation is P05000044397.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on February 5, 2020, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

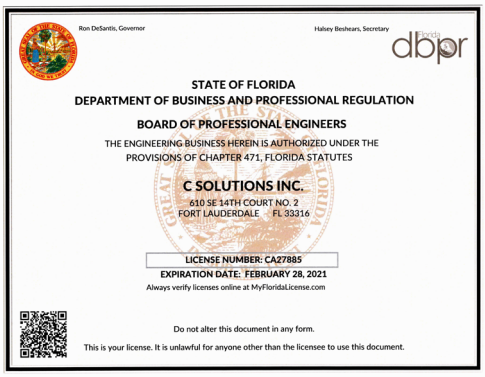
Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of February, 2020

Secretary of State

Tracking Number: 9308773060CC

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

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



Ron DeSantis, Governor — Halsey Beshears, Secretary — dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

C SOLUTIONS INC.
610 SE 14TH COURT NO. 2
FORT LAUDERDALE FL 33316

LICENSE NUMBER: CA27885
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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State of Florida
Minority Business Certification

C Solutions Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

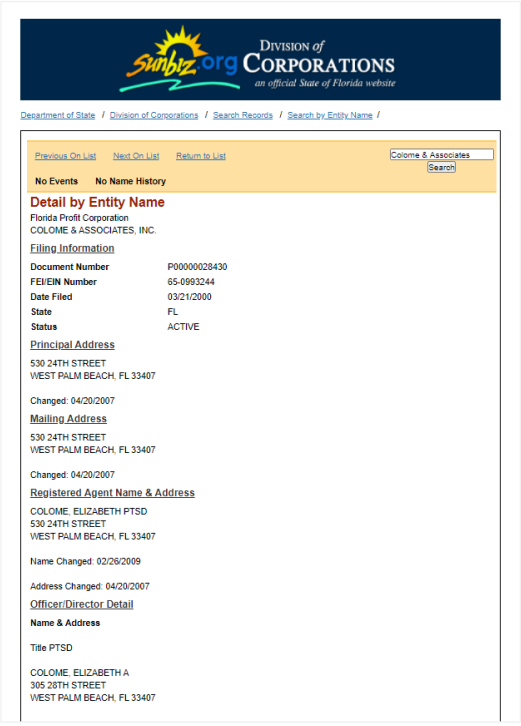
12/19/2019 to 12/19/2021

Jonathan R. Satter, Secretary
Florida Department of Management Services

Department of MANAGEMENT SERVICES — Office of Supplier Diversity

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

Colome & Associates



Sunbiz.org DIVISION of CORPORATIONS
an official State of Florida website

Department of State / Division of Corporations / Search Records / Search by Entity Name /

Previous On List | Next On List | Return to List | Colome & Associates | Search

No Events | No Name History

Detail by Entity Name

Florida Profit Corporation
COLOME & ASSOCIATES, INC.

Filing Information

Document Number	P00000028430
FEI/EIN Number	65-0993244
Date Filed	03/21/2000
State	FL
Status	ACTIVE

Principal Address

530 24TH STREET
WEST PALM BEACH, FL 33407

Changed: 04/20/2007

Mailing Address

530 24TH STREET
WEST PALM BEACH, FL 33407

Changed: 04/20/2007

Registered Agent Name & Address

COLOME, ELIZABETH PTSD
530 24TH STREET
WEST PALM BEACH, FL 33407

Name Changed: 02/26/2009

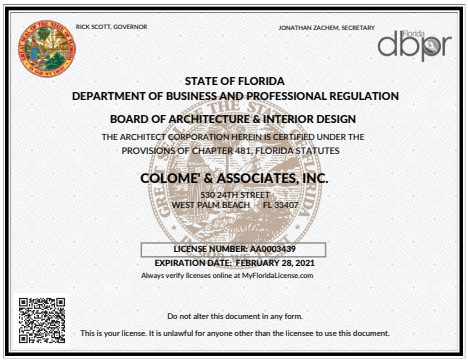
Address Changed: 04/20/2007

Officer/Director Detail

Name & Address

Title PTSD

COLOME, ELIZABETH A
305 28TH STREET
WEST PALM BEACH, FL 33407



RICK SCOTT, GOVERNOR — JONATHAN ZACHEM, SECRETARY — dbpr

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN
THE ARCHITECT CORPORATION HEREIN IS CERTIFIED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

COLOME' & ASSOCIATES, INC.
530 24TH STREET
WEST PALM BEACH FL 33407

LICENSE NUMBER: AA0003439
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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State of Florida
Woman Business Certification

Colome' & Associates, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

01/06/2019 to 01/06/2021

Ericka Rock, Secretary
Florida Department of Management Services

office of supplier DIVERSITY

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

Palm Beach County
Office of Equal Business Opportunity
Certifies That
Colome and Associates, Inc.
Vendor #VC0000009825

is a Small/Women Business Enterprise as prescribed by section 2-80.20 – 2-80.40 of the Palm Beach County Code for a three year period from
March 14, 2019 to March 13, 2022

The following Services and/or Products are covered under this certification:

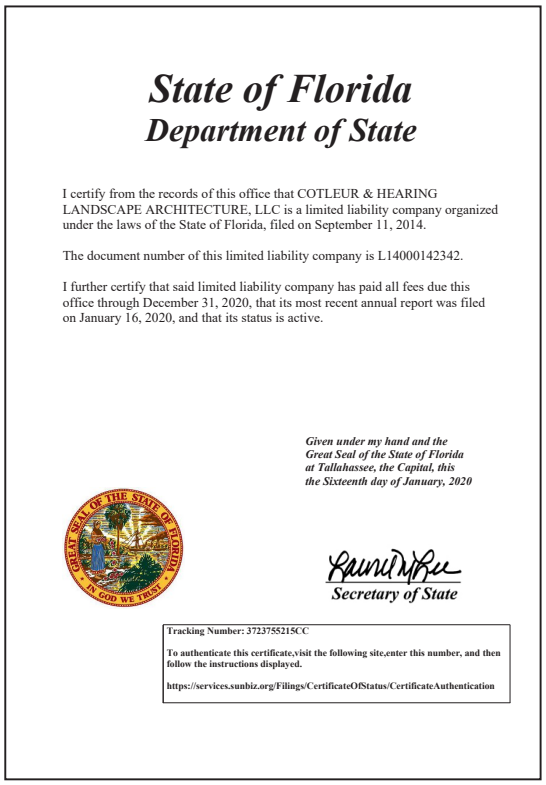
Architectural Services, Professional; Buildings - Architectural Design; Energy Management - Architectural Energy Conservation; New Energy Sources (Solar, etc.) - Architectural; Environmental - Architectural; General Construction - Architectural; Graphic Design - Architectural; Historical Preservation; Land Development and Planning - Architectural; Lighting (Interior, Exterior) - Architectural Services; Models of Layouts and Buildings to Scale, Architectural; Recreation Facilities (Parks, Marinas, etc.) - Architectural

Palm Beach County Board of County Commissioners

Allen F. Gray, Manager
March 14, 2019

County Administrator

Cotleur Hearing



State of Florida
Department of State

I certify from the records of this office that COTLEUR & HEARING LANDSCAPE ARCHITECTURE, LLC is a limited liability company organized under the laws of the State of Florida, filed on September 11, 2014.

The document number of this limited liability company is L14000142342.

I further certify that said limited liability company has paid all fees due this office through December 31, 2020, that its most recent annual report was filed on January 16, 2020, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixteenth day of January, 2020

Secretary of State

Tracking Number: 3723755215CC

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Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT BUSINESS HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

COTLEUR & HEARING INC
1934 COMMERCE LANE, SUITE 1
JUPITER FL 33458

LICENSE NUMBER: LCC000239
EXPIRATION DATE: NOVEMBER 30, 2021
Always verify licenses online at MyFloridaLicense.com

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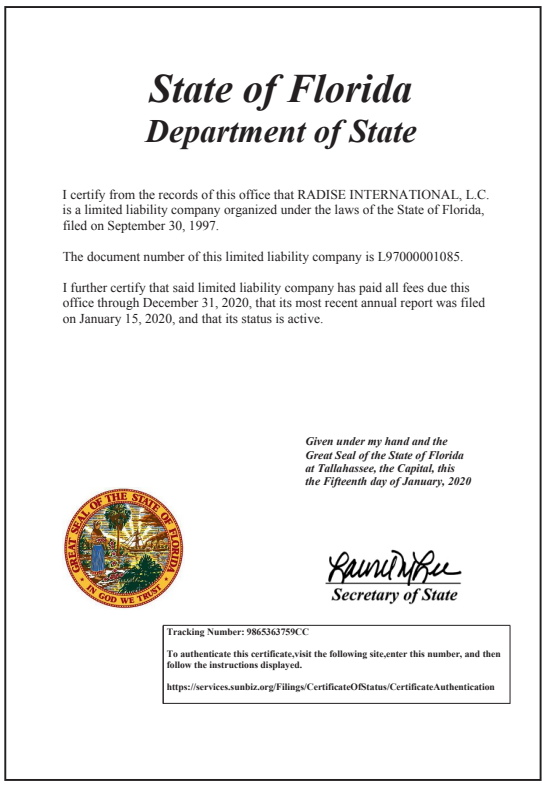
Radise International



State of Florida
Department of State

I certify from the records of this office that RADISE INTERNATIONAL, L.C. is a limited liability company organized under the laws of the State of Florida, filed on September 30, 1997.

The document number of this limited liability company is L97000001085.

I further certify that said limited liability company has paid all fees due this office through December 31, 2020, that its most recent annual report was filed on January 15, 2020, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifteenth day of January, 2020

Secretary of State

Tracking Number: 9865363759CC

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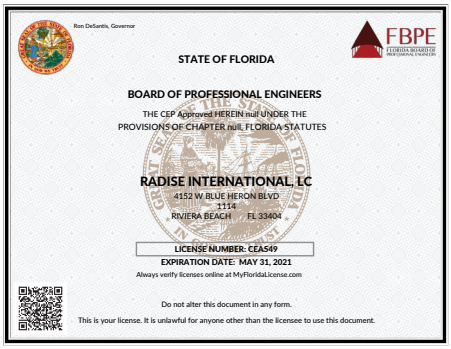

Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

THE CEP Approved HEREIN null UNDER THE PROVISIONS OF CHAPTER null, FLORIDA STATUTES

RADISE INTERNATIONAL, LC
4152 W BLUE HERON BLVD
1114
RIVIERA BEACH FL 33404

LICENSE NUMBER: CEA549
EXPIRATION DATE: MAY 31, 2021
Always verify licenses online at MyFloridaLicense.com

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State of Florida

Woman & Minority Business Certification

RADISE International, L.C.

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:

07/11/2019 to 07/11/2021

Palm Beach County
Office of Small Business Assistance

Certifies That
Radise International, L.C.
VENDOR # RADI0050

is a Small/Minority Business Enterprise as prescribed by Section 2-80.21 - 2-80.35 of the Palm Beach County Code for a three year period from December 12, 2017 to December 12, 2020

The following Services and/or Products are covered under this certification:
Boring, Drilling, Testing and Soundings including Concrete Coring
Engineering Services, Inspection, Geological Engineering Services,
Laboratory Analysis Service, Soil Samples
Programming Services, Computer, Including Mobile Device Applications
Software Design, Development and Integration

Palm Beach County Board of County Commissioners

Aiden Gray, Manager
December 13, 2017

Scalar Consulting Group

State of Florida
Department of State

I certify from the records of this office that SCALAR CONSULTING GROUP INC. is a corporation organized under the laws of the State of Florida, filed on April 25, 2011, effective April 21, 2011.

The document number of this corporation is P11000039483.

I further certify that said corporation has paid all fees due this office through December 31, 2019, that its most recent annual report/uniform business report was filed on January 14, 2019, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fourteenth day of January, 2019

Secretary of State

Tracking Number: 7334319659CC

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

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RICK SCOTT, GOVERNOR
JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

SCALAR CONSULTING GROUP INC.
4152 W BLUE HERON BOULEVARD
SUITE 119
RIVIERA BEACH FL 33404

LICENSE NUMBER: CA29560
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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State of Florida
Minority Business Certification

SCALAR CONSULTING GROUP INC.

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:

07/17/2019 to 07/17/2021

Jonathan R. Satter, Secretary
Florida Department of Management Services

Department of Management Services
Office of Supplier Diversity

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

Engenuity Group

State of Florida
Department of State

I certify from the records of this office that ENGENUITY GROUP, INC. is a corporation organized under the laws of the State of Florida, filed on January 7, 1980.

The document number of this corporation is 650317.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on January 6, 2020, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Sixth day of January, 2020

Secretary of State

Tracking Number: 8645012277CC

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

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

Ron DeSantis, Governor
Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF PROFESSIONAL ENGINEERS
THE ENGINEERING BUSINESS HEREIN IS AUTHORIZED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

ENGENUITY GROUP, INC.
1280 NORTH CONGRESS AVENUE
SUITE 101
WEST PALM BEACH FL 33409

LICENSE NUMBER: CA7095
EXPIRATION DATE: FEBRUARY 28, 2021
Always verify licenses online at MyFloridaLicense.com

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Palm Beach County
Office of Equal Business Opportunity
Certifies That
Engenuity Group, Inc.
Vendor #VC0000106440

is a Small Business Enterprise as prescribed by section 2-80.20 – 2-80.40 of the Palm Beach County Code for a three year period from ***February 26, 2019 to February 25, 2022***

The following Services and/or Products are covered under this certification:

Civil Engineering
Highways; Streets; Airport Pay-Parking Lots - Engineering
Sanitary Engineering
Surveyor Services, Land
Mapping & Geographical Information Systems (GIS) Services
Water Supply, Treatment, and Distribution/Engineering

Allen F. Gray, Manager
February 26, 2019

Palm Beach County Board of County Commissioners
Mack Bernard, Mayor
Dave Kerner, Vice Mayor
Hal Valeche
Greg K. Weiss
Robert S. Weinroth
Mary Lou Berger
Melissa McKinlay

County Administrator
Verdenia C. Baker

State of Florida
Minority Business Certification

Engenuity Group,Inc

Is certified under the provisions of 287 and 295.187, Florida Statutes, for a period from:

02/14/2020 to 02/14/2022

Jonathan R. Satter, Secretary
Florida Department of Management Services

Department of Management Services
Office of Supplier Diversity

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

Brown and Phillips

State of Florida
Department of State

I certify from the records of this office that BROWN & PHILLIPS, INC. is a corporation organized under the laws of the State of Florida, filed on March 26, 1993.

The document number of this corporation is P93000023610.

I further certify that said corporation has paid all fees due this office through December 31, 2020, that its most recent annual report/uniform business report was filed on March 10, 2020, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Tenth day of March, 2020

Secretary of State

Tracking Number: 9215301745CC

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

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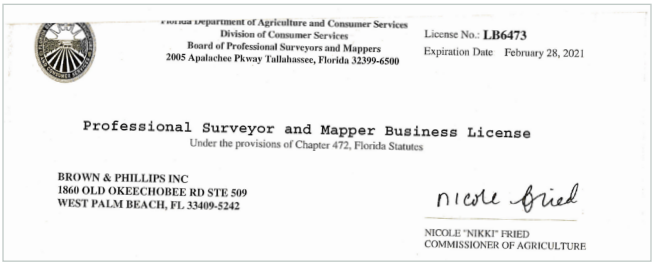


Florida Department of Agriculture and Consumer Services
Division of Consumer Services
Board of Professional Surveyors and Mappers
2005 Apalachee Pkway Tallahassee, Florida 32399-6500

License No.: **LB6473**
Expiration Date February 28, 2021

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

BROWN & PHILLIPS INC
1860 OLD OKEECHOBEE RD STE 509
WEST PALM BEACH, FL 33409-5242

Nicole Fried
NICOLE "NIKKI" FRIED
COMMISSIONER OF AGRICULTURE

Palm Beach County
Office of Equal Business Opportunity
Certifies That
Brown & Phillips, Inc.
Vendor #BROW0082
is a Small/Minority Business Enterprise as prescribed by section 2-80.20 – 2-80.40 of the Palm Beach County Code for a three year period from January 31, 2019 to January 30, 2022
The following Services and/or Products are covered under this certification:
Surveyor Services, Land
Mapping & Geographical Information Systems (GIS) Services

Allen F. Gray, Manager

Palm Beach County Board of County Commissioners

State of Florida
Minority Business Certification

Brown & Phillips, Inc.

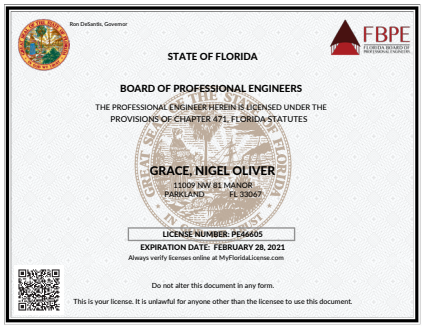
Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

11/05/2019 to 11/05/2021

Jonathan R. Satter, Secretary
Florida Department of Management Services

MANAGEMENT SERVICES
Office of Supplier Diversity

Key Personnel Professional Licenses


Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

GRACE, NIGEL OLIVER

11009 NW 81 MANOR
PARKLAND FL 33067

LICENSE NUMBER: PE46605
EXPIRATION DATE: FEBRUARY 28, 2021
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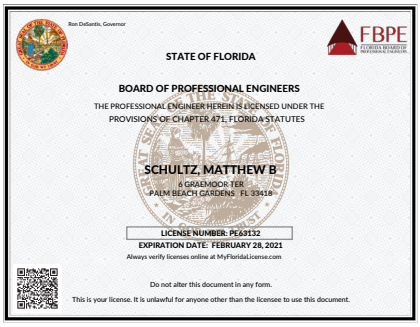
Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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SCHULTZ, MATTHEW B

6 GRAEMOOR TER
PALM BEACH GARDENS FL 33418

LICENSE NUMBER: PE63132
EXPIRATION DATE: FEBRUARY 28, 2021
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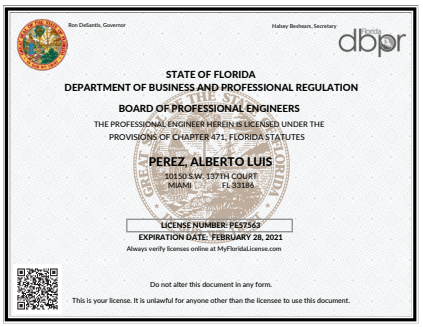
Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

PEREZ, ALBERTO LUIS

10150 S.W. 137TH COURT
MIAMI FL 33186

LICENSE NUMBER: PE57563
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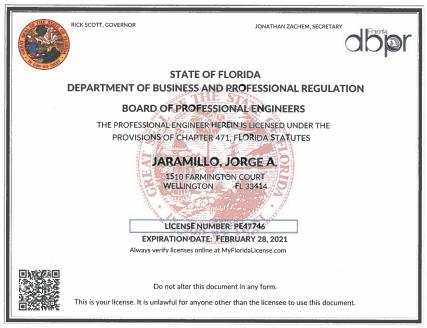
RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

JARAMILLO, JORGE A.

1510 FARMINGTON COURT
WELLINGTON FL 33414

LICENSE NUMBER: PE47746
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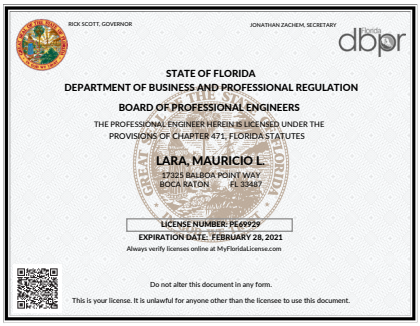
RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

LARA, MAURICIO L.

17325 BALBOA POINT WAY
BOCA RATON FL 33487

LICENSE NUMBER: PE69929
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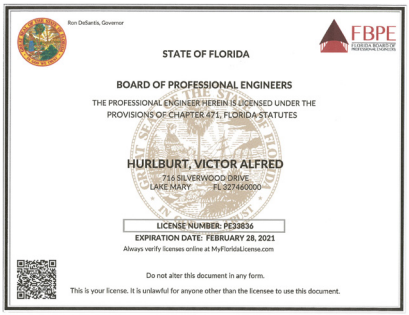
Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

HURLBURT, VICTOR ALFRED

716 SILVERWOOD DRIVE
LAKE MARY FL 32746-0000

LICENSE NUMBER: PE33836
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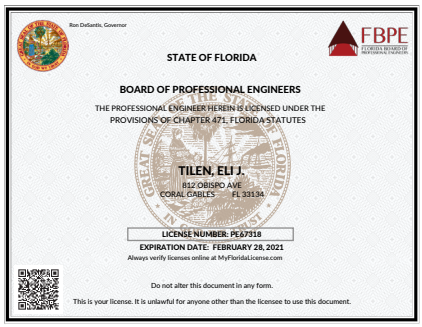
Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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

TILEN, ELI J.

812 OBISPO AVE
CORAL GABLES FL 33134

LICENSE NUMBER: PE67318
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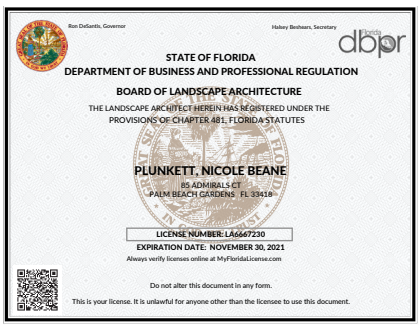
Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

PLUNKETT, NICOLE BEANE

85 ADMIRALS CT
PALM BEACH GARDENS FL 33418

LICENSE NUMBER: LA0667230
EXPIRATION DATE: NOVEMBER 30, 2021
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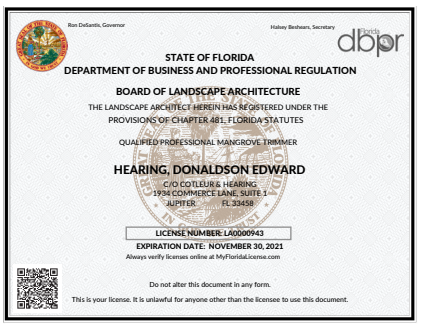
Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF LANDSCAPE ARCHITECTURE

THE LANDSCAPE ARCHITECT HEREIN HAS REGISTERED UNDER THE PROVISIONS OF CHAPTER 481, FLORIDA STATUTES

QUALIFIED PROFESSIONAL MANGROVE TRIMMER

HEARING, DONALDSON EDWARD

C/O COTLEUR & HEARING
1934 COMMERCE LANE, SUITE 1
JUPITER FL 33458

LICENSE NUMBER: LA0000943
EXPIRATION DATE: NOVEMBER 30, 2021
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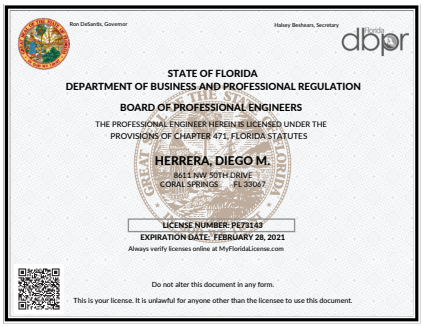
Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

HERRERA, DIEGO M.

8611 NW 50TH DRIVE
CORAL SPRINGS FL 33067

LICENSE NUMBER: PE73143
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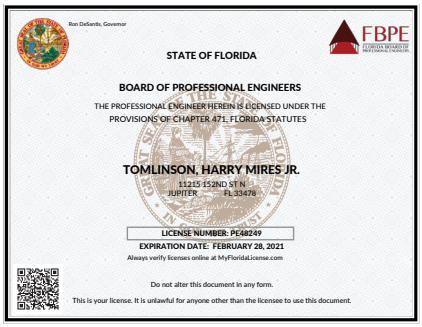
Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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TOMLINSON, HARRY MIRES JR.

11215 152ND ST N
JUPITER FL 33478

LICENSE NUMBER: PE48249
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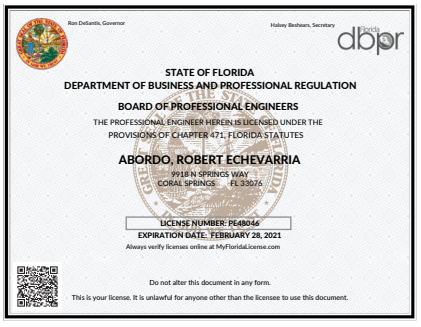
Ron DeSantis, Governor

Halsey Beshears, Secretary

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

ABORDO, ROBERT ECHEVARRIA

9918 N SPRINGS WAY
CORAL SPRINGS FL 33076

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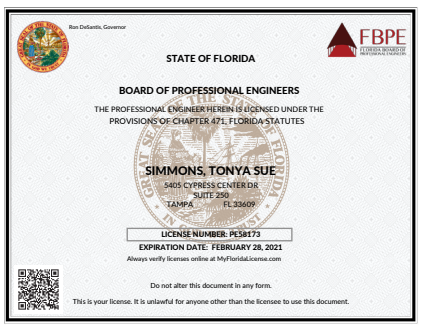
Ron DeSantis, Governor

STATE OF FLORIDA

BOARD OF PROFESSIONAL ENGINEERS

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SIMMONS, TONYA SUE

5405 CYPRESS CENTER DR
SUITE 250
TAMPA FL 33609

LICENSE NUMBER: PE58173
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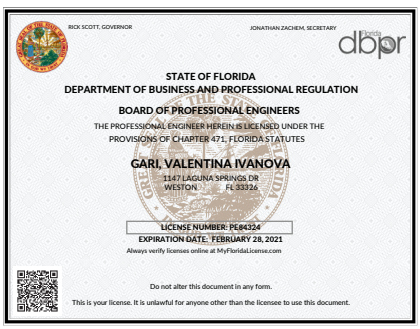
RICK SCOTT, GOVERNOR

JONATHAN ZACHEM, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

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

GARI, VALENTINA IVANOVA

1147 LAGUNA SPRINGS DR
WESTON FL 33326

LICENSE NUMBER: PE84324
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THE ACADEMY OF BOARD CERTIFIED ENVIRONMENTAL PROFESSIONALS

ATTESTS THAT

Ann M. Redmond

IS HEREBY DECLARED TO BE A

CERTIFIED ENVIRONMENTAL PROFESSIONAL

IN

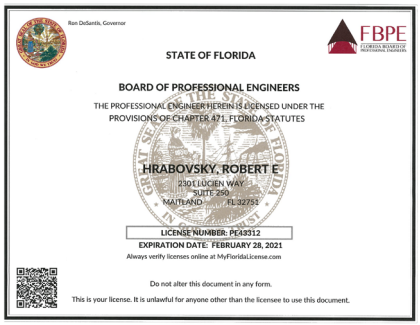
Environmental Assessment

BY THE CERTIFICATION REVIEW BOARD
ACTING UNDER THE AUTHORITY OF THE BOARD OF TRUSTEES
THIS 20th DAY OF FEBRUARY, 2008

LEAD REVIEWER, CERTIFICATION REVIEW BOARD

CHAIR, CERTIFICATION REVIEW BOARD

CERTIFICATION NUMBER: 070110375


Ron DeSantis, Governor

STATE OF FLORIDA

FBPE

BOARD OF PROFESSIONAL ENGINEERS

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

HRABOVSKY, ROBERT E

2301 LUCIEN WAY
SUITE 250
MAITLAND FL 32751

LICENSE NUMBER: PE43312

EXPIRATION DATE: FEBRUARY 28, 2021

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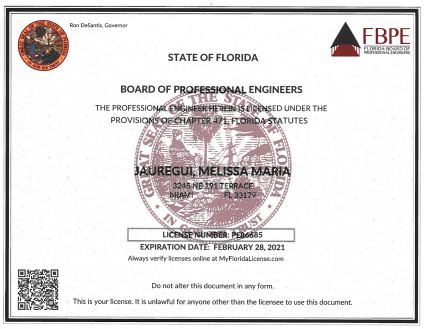
Ron DeSantis, Governor

STATE OF FLORIDA

FBPE

BOARD OF PROFESSIONAL ENGINEERS

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

JAUREGUI, MELISSA MARIA

3245 NW 191 TERRACE
MIAMI FL 33179

LICENSE NUMBER: PE90685

EXPIRATION DATE: FEBRUARY 28, 2021

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American Academy of Environmental Engineers Certification Board

of the

American Academy of Environmental Engineers and Scientists

having carefully considered the education, professional experience, and established competence of

Celia Denise Earle, Ph.D., BCEEM

issues this Certification of Qualification as a

Board Certified Environmental Engineering Member

in the Specialty

Water Supply & Wastewater

September 13, 2019

Certificate Number: 19-E0012

President

Executive Director


Florida dbpr

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Licensee Details

Licensee Information

Name:	AUGUSTI, DANIEL (Primary Name)
	AECOM TECHNICAL SERVICES, INC. (DBA Name)
Main Address:	6820 SPUR ROAD
	SPRINGFIELD Virginia 22152
County:	OUT OF STATE
License Mailing:	
LicenseLocation:	6820 SPUR ROAD
	SPRINGFIELD VA 22152
County:	OUT OF STATE

License Information

License Type:	Certified General Contractor
Rank:	Cert General
License Number:	CGC1522054
Status:	Current,Active
Licensure Date:	02/17/2014
Expires:	08/31/2022

Special Qualifications	Qualification Effective
Construction Business	02/17/2014


Florida dbpr

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Licensee Details

Licensee Information

Name:	JONES, GREGG W (Primary Name)
Main Address:	8643 MORNING DOVE PL
	WESLEY CHAPEL Florida 33544
County:	PASCO
License Mailing:	
LicenseLocation:	

License Information

License Type:	Professional Geologist
Rank:	PG
License Number:	PG1475
Status:	Current,Active
Licensure Date:	03/04/1993
Expires:	07/31/2020

Special Qualifications	Qualification Effective

Alternate Names

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View License Complaint

2601 Blair Stone Road, Tallahassee FL 32399 :: Email: Customer Contact Center :: Customer Contact Center: 850.487.1395

SECTION B

Project Team Qualifications

FOCUSED on Riviera Beach

Proven Partnership.
Trusted Solutions.

Project Team Qualifications

B

The Right Team for This Contract

Our team excels at performing construction management services and stands ready to deliver for the City of Riviera Beach.

Brown and Caldwell (BC) is a firm that brings the right resources to our clients. Our firm's size enables us to customize trusted solutions, and our culture encourages practical innovation. We collaborate as one with our clients and, in doing so, we have earned their respect and continuing trust. Through our past efforts with the City and experience of our subconsulting partners, we understand your priorities and know what you expect in a consulting firm. Each member of our team was specifically selected for this contract based on their aligned expertise and previously demonstrated ability to be responsive and reliable.

BC offers the City a team that will deliver an exceptional range of Owner's Representative services inclusive of project management, project coordination, technical support, construction oversight and administration, project controls and accountability for all projects under this contract. The depth of our team and our locality allow us to quickly respond and provide all of the services listed in your proposed scope. Our organizational chart, as well as brief summaries of our key team members, are listed on the following pages. More detailed information can be found about our team in resumes provided at the end of this section.

Section Contents

This section includes our team's organizational chart, key personnel biographies, and resumes.

BC's company organization is structured to offer the flexibility and responsiveness that make construction management services contracts successful.

Organized to Confidently Deliver Your Wastewater Projects

The structure of our team is built to deliver the highest value to the City of Riviera Beach.

Leadership Team

PRINCIPAL-IN-CHARGE
Albert Perez, PE

CONTRACT MANAGER
Matthew Schultz, PE, PMP

PROJECT DELIVERY OFFICER
Nigel Grace, PE

PROJECT MANAGEMENT TEAM
Jorge Jaramillo, PE
Mauricio Lara, PE

TECHNICAL ADVISORS
Buried Infrastructure | Victor Hurlburt, PE
Treatment & Construction Admin | Larry Vicars, PE, CGC
Project Delivery Strategy | Leofwin Clark, PE*
Site Development Planning | Don Hearing, PLA
Health & Safety | Ken Hoff, CSP, CHST
Risk Management | Eli Tilen, PE
Architecture | David Crawford, RA, LEED AP

Project Delivery Leads

UTILITY SYSTEMS & CONSULTING
Nigel Grace, PE

DEVELOPMENT PLANNING
Nicole Plunkett, PLA, ASLA

PROJECT DELIVERY/ CRITERIA DEVELOPMENT
Matthew Schultz, PE, PMP

Technical Support

FUNCTIONAL AREAS
Bond Engineering | Nigel Grace, PE
Development/Site Planning | Nicole Plunkett, PLA, ASLA
Project Delivery/Criteria Development | Matthew Schultz, PE, PMP; Dan Augusti, PE*, CGC
Environmental Assessment | Reinhard Ruhmke, PG*, Kris Stranley
Construction Support Svcs | David Rosetta, Larry Vicars, PE, CGC
Utility Systems & Consulting | Nigel Grace, PE; Celia Earle, PhD, BCEEM
CIP Mgmt & Controls | Matthew Schultz, PE, PMP; Garrett Isbel
Community Development | Celia Earle, PhD; Nigel Grace, PE
Standards Review | Victor Hurlburt, PE; Mark Drummond, PE
Cost Estimating | Ian Krujlac
Scheduling | Matthew Schultz, PE, PMP
Funding Support | Nigel Grace, PE; Celia Earle, PhD, BCEEM

DISCIPLINE RESOURCES
Landscape Architecture | Nicole Plunkett, PLA, ASLA
Facilities Architecture | Elizabeth Colome, LEED AP BD+C
Civil Engineering | Diego Herrera, PE; Adam Swaney, PE
Geotech and Testing | Harry Tomlinson, PE; Gregory Stelmack, PE; Andrew Nixon, PE
Electrical/I&C | Robert Abordo, PE; Hector Serrano, PE
AWIA/Compliance | Celia Earle, PhD, BCEEM; Tonya Simmons, PE
Process Mechanical | Larry Vicars, PE, CGC; Mark Drummond, PE
Hydrogeology | Gregg Jones, PhD, PG; Brice Wimsatt, EI
Stormwater | Diego Herrera, PE; Adam Swaney, PE
Asset Management | Ricardo Campos, PE
Structural | Robert Hrabovsky, PE
Permitting | Melissa Jauregui, PE; Adam Swaney, PE
Environmental Ecology | Ann Redmond, CEP; Lindsey Painter
Surveying | Andre Rayman, PSM; Jennifer Malin, PSM

Subconsultant Team/Specialties

Civil and Mechanical | C Solutions, Inc.
Facilities and Landscape Architecture | Colome & Associates, Inc.
Site Planning and Development Review | Cotleur Hearing
Geotechnical and Testing | Radise International, LLC
Transportation/Roadway Design | Scalar Consulting Group, Inc.
Stormwater, Site/Civil, Land Surveying and Easements | Engenuity Group, Inc.
Surveying | Brown & Phillips

KEY
C Solutions, Inc. | Colome & Associates, Inc. | Cotleur Hearing | Radise International, LLC | Scalar Consulting Group, Inc. | Engenuity Group, Inc. | Brown & Phillips
**Out of State PE*

Proven Leadership You Know and Trust

The City of Riviera Beach can take confidence that our leadership team will be focused on delivering sustainable solutions that meet the long-term needs of the City.

They will work in unison throughout the life of this contract to enable our entire team to meet our commitments and your expectations under this construction management contract. They serve in complementary senior leadership roles in our firm, so they have the ability to draw in a wide range of resources as needed.

Albert Perez, PE

PRINCIPAL-IN-CHARGE

25 YEARS

Albert Perez is a progressive and visionary leader with over 25 years of experience in the water and wastewater business sector. Prior to joining BC, he served in the capacity of Utilities Director for the City of Hollywood. In his capacity, he developed a keen understanding of the needs and complex considerations to address in addressing the diverse interests of key stakeholders, and processes for prioritizing the delivery of improvements. This background provides a unique perspective that will benefit BC's delivery efforts for the City. A selection of his project experience includes Broward County Water and Wastewater Master Plan, Springtree Water Treatment Plant Expansion for City of Sunrise, and Water Plant Expansion Program for the City of North Miami Beach. He is currently responsible for overseeing BC's Florida Operations and, in this capacity, is well positioned to ensure that appropriate resources are committed to the City's projects.

Nigel Grace, PE

PROJECT DELIVERY OFFICER/UTILITY SYSTEMS & CONSULTING LEAD/BOND ENGINEERING LEAD

30 YEARS

Nigel Grace brings more than 30 years of experience serving in wide-ranging roles in the management and direction of complex multi-disciplinary projects that draw on diverse skill sets in areas of technology applications, regulatory negotiations, operational/process optimization, and general consulting in wide-ranging utility business enterprise matters. Additionally, he currently serves as one of the firm's water technology leaders and through this experience brings broad insights on emerging issues of concern and the complex challenges faced by the utility community. For almost 20 years, he has served a wide array of engineering needs for utilities across South Florida saving utilities hundreds of millions of costs, addressed complex compliance challenges and successfully implement practical and sustainable solutions. His focus will be to ensure that we listen well, align our resources to your priorities and work with our delivery teams to ensure that the job gets done right for each project assignment.

Matthew Schultz, PE, PMP

CONTRACT MANAGER/PROJECT DELIVERY & CRITERIA DEVELOPMENT LEAD/CIP MGMT & CONTROLS/SCHEDULING LEAD

Matthew Schultz has 20 years of experience in the design, construction, commissioning, and optimization of water and wastewater treatment plants, pipelines, and large pumping systems. His recent experience has included front-end project delivery planning, alternatives analysis, design-builder and contractor evaluation and selection, and general program and project management. He has extensive experience in alternate delivery projects including design-build, progressive design-build, and construction manager at risk. He also has experience in the instrumentation and control design of water and wastewater treatment facilities.

20 YEARS

Technical Advisory Team

This team includes nationally recognized experts in their fields and is prepared to bring their industry expertise to the City of Riviera Beach on this contract.

Our proposed team of technical advisors was selected to convey our firm's know how and best practices across diverse disciplines to produce reliable solutions you can trust. The selection of advisors may be modified to reflect the needs of each assignment. Our technical advisors bring well-rounded local as well as national experience to our team to provide valuable quality control (QC) and quality assurance (QA) on each project. Their primary responsibility is to review your goals and make sure our work meets strict QC requirements and integrates the latest industry thinking and standards.

Larry Vicars, PE, CGC
TREATMENT & CONSTRUCTION ADMIN

Don Hearing, PLA (Cotleur Hearing)
SITE DEVELOPMENT PLANNING

Eli Tilen, PE
RISK MANAGEMENT

Victor Hurlburt, PE
BURIED INFRASTRUCTURE / STANDARDS REVIEW

Leofwin Clark, PE
PROJECT DELIVERY STRATEGY

Ken Hoff, CSP
HEALTH & SAFETY

David Crawford, RA, LEED AP
ARCHITECTURE

45 YEARS | 22 YEARS | 29 YEARS | 38 YEARS | 15 YEARS | 16 YEARS | 36 YEARS

Experienced Project Management Team

Our project management team has abundant experience delivering construction administration services and stands ready to lead our team to support the City of Riviera Beach.

The City of Riviera Beach needs strong, proven project managers and technical leaders who bring experience with each project component, know how to lead multi-disciplined teams, and are available to start working right now. Our project managers meet these criteria perfectly.

They were selected because of their successful track record of driving teams to project completion on schedule and within budget. With the support of our leadership team, they will provide the oversight and direction to successfully meet the City's long-term needs.

Jorge Jaramillo, PE

PROJECT MANAGEMENT TEAM

EXPERIENCE SUMMARY

Jorge Jaramillo has over 35 years of technical, project management, and construction management experience, working in both the public and private sectors, in the planning, design and construction of Civil, Environmental, Water Resources, Water Utilities, Public Works and Capital Improvements projects. During much of his career, Jorge worked in municipal government overseeing the delivery of diverse projects and has managed and executed several multimillion dollar projects as an engineering consultant. Consequently, he brings both perspectives to each project.

PROJECTS PERFORMANCE

- Construction Manager for the Biscayne Bay Coastal Wetlands Comprehensive Everglades Restoration Program, Phase 1 (West Palm Beach, FL)
- Construction Manager for Pump Station S-331 and Command Control Center (West Palm Beach, FL)

Mauricio Lara, PE, PMP

PROJECT MANAGEMENT TEAM

EXPERIENCE SUMMARY

Mauricio Lara has 21 years of experience primarily relating to planning and execution of major water resources, water/wastewater and utilities infrastructure projects for the public sector. Mauricio has been involved in different stages of design, permitting, and construction from small to major size projects. He is currently overseeing over $60 million in construction contracts as well as conceptual design of a new administration building. He has served as project manager and program manager on numerous projects located throughout South Florida both as a consultant and a public servant.

PROJECTS PERFORMANCE

- Project Manager for the Reclaimed Plant Expansion Construction Administration Services (Broward County, FL)
- Deputy Project Manager for the Sawgrass WWTP High-Level Disinfection Reuse Facility Construction Administration Services (Sunrise FL)

A Reliable Team with a History of Delivery

Our experts will be able to handle any assignment you give our team.

Each key member of our team was selected based on his/her availability, expertise, and connection to our relevant project experience. Individually, they bring specific experience relevant to performing these projects. Together, they provide a strong, cohesive unit with working knowledge of systems similar to Riviera Beach's processes and facilities. Therefore, our technical team will have a minimal learning curve and is ready to begin work on any assignment under this contract.

Experience Summary	Performance on Related Projects
 **Nicole Plunkett, PLA, ASLA (Colteur Hearing)** DEVELOPMENT PLANNING/LANDSCAPE ARCHITECTURE Landscape architect with experience leading project teams of designers, land planners, architects, engineers, and surveyors from the beginning of a project through final construction. Nicole is the founder of Future Landscape Architects of America (FLAA), a non-profit that educates K-12 students about landscape architecture.	• Led site plan amendment approval for Riviera Beach's Fire Station #2 (Riviera Beach, FL) • Assisted with the site and landscape design of additional student residence buildings at both campuses of Florida Atlantic University (Jupiter and Boca Raton, FL) • Assisted in the development and design of new clubhouse for Sandhill Crane Golf Club (Palm Beach Gardens, FL)
 **Dan Augusti, PE, CGC, DBIA** PROJECT DELIVERY/CRITERIA DEVELOPMENT Engineer and licensed General Contractor with 25 years of professional experience in water and wastewater treatment plant construction, including pipeline and pump station elements, with significant experience in commercial and heavy civil construction projects.	• Owner's Project Manager for 250 mgd Tunnel Dewatering Pump Station and Enhanced Clarifier Facility at Blue Plains AWTP (Washington, DC) • On-site Construction Manager for Hialeah's Reverse Osmosis Water Treatment Plant (Hialeah, FL) • Senior Construction Manager for DC Water's Blue Plains AWTP (Washington, DC)
 **Reinhard Ruhmke, PG** ENVIRONMENTAL ASSESSMENT Professional Geologist with more than 30 years of experience investigating and remediating sites contaminated with fuel hydrocarbons, chlorinated hydrocarbons, metals, pesticides and PCBs. He has developed and implemented technical strategies as part of the Resource Conservation and Recovery Act (RCRA) and non-RCRA site closures, and has designed or managed a wide range of remediation programs for subsurface contamination.	• Led Investigation and Remediation of 1,4-Dioxane (confidential client, FL) • Oversaw Excavation and Off-Site Disposal of Lead Contaminated Soil (confidential client, NC) • Managed Soil and Groundwater Investigation and Feasibility Study (confidential client, FL)
 **Victor Hulburt, PE** CONSTRUCTION SUPPORT SERVICES Over 47 years of experience designing buried infrastructure, pump stations, supply and treatment projects, reclaimed water transmission projects, wastewater collection. He has also managed the design of over 125 miles of pipelines (various applications) with sizes as small as 4-inch and up to 48-inches	• Design and construction services for replacement of 90,000 linear feet of water mains (Hollywood, FL) • Water supply wells and raw water mains (Hollywood, FL) • Design and construction services for sewage force main improvements (Miramar, FL)

Experience Summary

Performance on Related Projects

Celia Earle, PhD, BCEEM

UTILITY SYSTEMS & CONSULTING/COMMUNITY DEVELOPMENT/FUNDING SUPPORT/AWIA/COMPLIANCE

Over 25 years of experience as an environmental engineer, environmental chemist, and microbiologist, providing a unique profile in the environmental arena. She has a breadth of knowledge that includes planning, design, and construction administration for water, wastewater and reclaimed water systems, non-revenue water reduction and management, energy efficiency assessments, condition assessments, compliance assessments, program management, design-build delivery and various feasibility studies and investigations.

- Project Manager for the City of Hollywood's Ocean Outfall Legislation-Reuse Compliance Strategy (City of Hollywood, FL)
- Managed an Alternative Water Supply Master Plan (Broward County, FL)
- Responsible for Turnkey System for VOC Contamination in Production Wells (City of North Miami Beach, FL)

Ian Kruljac

COST ESTIMATING

13 years of experience supervising mechanical and civil trades in maintaining and constructing refineries, chemical plants, power plants, food grade mechanical installations and civil highways. Ian is performing both construction management and cost estimating for our many projects in South Florida and across the nation.

- Lead Estimator for the cost estimates associated with the design gates (30%, 60%, 90% and Final) for the expansion of Broward County's reclaimed water plant from 10 mgd to 26 mgd (Broward County, FL)
- Lead Estimator for the cost estimates for the designs associated with converting a wet pit/dry pit station to a submersible lift station at a highly constrained site. These were for Lift Stations 114, 123, 125, 132, and 148 (City of Sunrise, FL)

Elizabeth Colome, LEED AP BD+C (Colome & Associates)

FACILITIES ARCHITECTURE

Elizabeth Colomé established her firm in 1994, incorporated in 2000 as Colomé & Associates, Inc. This firm is dedicated to providing commitment to clients and attention to quality. Her experience includes educational, institutional, religious, civic and commercial architecture.

- Continuing service minor projects, including modular classroom relocation, restroom buildings, and renovations for accessibility and life safety (School District of Palm Beach County, FL)
- Addition of 22,000 SF and accessibility and life safety upgrades to the St. Vincent Ferrer Catholic School, constructed in 1955 (Delray Beach, FL)
- Continuing services contract, projects include additions and renovations to existing facilities for Palm Beach County WUD, Palm Tran, Fire Stations, and many other projects to include feasibility studies, Site analysis, reports and assessments (Palm Beach County)

Diego Herrera, PE

CIVIL ENGINEERING/STORMWATER

Over 15 years of project experience primarily focused on design of stormwater management systems for land development projects, permitting, construction oversight, and inspection; preparation and permitting of water supply plans, master plans, reports for municipalities; planning and design of raw water collection wells and water treatment plant improvements, water distribution systems, permitting, and construction oversight; analysis and planning of reuse water processes and design of reuse water distribution systems, permitting and construction oversight; study and analysis, planning and design of wastewater collection systems and pumping stations permitting, and construction oversight.

- Managed Mango Road 24-inch Force Main to provide emergency wastewater connection, including several metering devices to account for wastewater flow (Palm springs, FL)
- Project Manager for approximately 10,500 lf of sanitary sewer, pump station, and 3,00 lf of sewer force main for the SW corner of 10th Ave. North and Kirk Rd. (Palm Springs, FL)
- Led evaluation, planning, and design of 3 sanitary sewer pump stations (Palm Springs, FL)

Experience Summary

Performance on Related Projects

Harry Tomlinson, PE

GEOTECH AND TESTING

28 years of civil engineering experience with concentrations in geotechnical engineering and surface water management. He is proficient in two-dimensional groundwater flow modeling and slope stability analysis. He has laboratory and in situ soil testing experience and extensive construction management experience.

- Construction services associated with a 4-mgd High Level Disinfection Facility (Sunrise, FL)
- Led the design effort for restoration and improvement of a 900-acre system of eight interconnected industrial wastewater treatment ponds (Palatka, FL)

Robert Abordo, PE

ELECTRICAL/I&C

Over 45 years of electrical engineering design experience. Experience includes design of power systems and control components for water and wastewater treatment facilities, membrane and ozone generation facilities, emergency power generation and distribution, pumping stations, and water supply and distribution.

- Electrical system condition assessment for ECR WRF and 5 Master PSs (West Palm Beach, FL)
- Inspection, construction management and start up services for the parallel standby generators and the associated low voltage generator and utility switchgear (Sunrise, FL)
- $873M design- build program involving two major wastewater treatment plants expansions and a new RO water plant and several raw water well sites, which are already in operation (Cape Coral, FL)

Hector Serrano, PE

ELECTRICAL/I&C

17 years of electrical engineering/instrumentation and controls (I&C) experience. Areas of expertise include the design of power systems, control and security components for water and wastewater treatment facilities and pumping stations, emergency power generation and distribution, and water supply and distribution.

- Responsible for assessing and evaluating the condition of existing electrical equipment in sewage lift stations (Miami-Dade, FL)
- Installation contract deliverables, SCADA integration, and site inspection (SFWMD, FL)
- Electrical plans for the temporary power supply, installation and operation of a cost effective alternative water supply Experimental Pilot Study Program (Sunrise, FL)

Tonya Simmons, PE

AWIA/COMPLIANCE

Over 20 years of experience with environmental and water resources engineering and utility management consulting, including asset management. She has served public utilities and state agencies throughout Florida where she is known for providing creative solutions, high-quality work products, and exceptional client service.

- Project Manager for Florida's statewide Water Conservation Performance Measurement System (FL DEP, Tallahassee, FL)
- Designed a web-based interactive tracking tool for utilities to target conservation opportunities (Palatka, FL)
- Developed the City of Largo's stormwater asset management geodatabase and condition assessment protocol (City of Largo, FL)

Valentina Gari, EIT

PROCESS MECHANICAL

Over 6 years of experience providing process mechanical experience related to wastewater treatment plants, reclaimed water plants, and pump stations throughout Florida and Nationwide.

- Process Mechanical Engineer for the North District WWTP Primary Clarifiers and Pilot Test (Miami-Dade County, FL)
- Process Mechanical Engineer for the North District WWTP Disinfection System Upgrades (Miami-Dade County, FL)
- Process Mechanical Engineer for Reclaimed Plant Expansion (Broward County, FL)

Gregg Jones, PhD, PG

HYDROGEOLOGY

Over 34 years of experience in numerous water resource disciplines including hydrogeology, hydrology, water quality, geochemistry, and water supply and water conservation planning. His diverse public and private-sector experience ranges from hands-on technical work to high-level water policy development to the oversight of large technical departments.

- Water Resources Technical Director for the Development of Saltwater Intrusion Minimum Aquifer Levels to minimize impact in the western portion of the Florida Panhandle (Havana, FL)
- Water Resources Technical Director for the Withlacoochee Regional Water Supply Authority's Water Supply Plan (Lecanto, FL)
- Water Resources Technical Director for the Suwanee River Water Management District's Water Resource Assessment (Live Oak, FL)

Experience Summary

Performance on Related Projects

Brice Wimsatt

HYDROGEOLOGY

Over 4 years of experience with the State Revolving Fund (SRF) Davis Bacon compliance support, environmental sampling and remediation. He also has experience with wastewater sampling and characterization laboratory analysis.

- Drilling oversight of two deep injection wells (Hollywood, FL)
- Project Geologist for the North District WWTP Chlorine and Toxicity Study (Miami-Dade, FL)
- Conducted environmental site evaluations statewide for DR Horton (FL)

Ricardo Campos, PE

ASSET MANAGEMENT

With 19 years of experience, he leads BC's Asset Management Community of Practice. Ricardo has experience implementing and applying various utility management frameworks, including asset management, CMOM and Effective Utility Management.

- Project Manager for Asset Management (AM) Program (City of West Palm Beach, FL)
- Asset Management Lead for AM Assessment and Program Implementation (South Adams County, CO)
- Asset Management Lead for WWTP and Lift Station Rehab/Replacement Plan (City of West Palm Beach, FL)

Robert Hrabovsky, PE

STRUCTURAL

35 years of experience in management, structural design, and construction of public utility and public works facilities. He provided structural engineering and design for everything from water and wastewater treatment plants and infrastructure to solid waste facilities and roadway construction. He has served as the Structural Engineer of Record for many Florida projects.

- Structural design and office engineering services during construction of the rehabilitation of the screenings and grit facility at the Sawgrass WWTP (Sunrise, FL)
- Structural design and office engineering services during construction for the $11 million greenfield 0.3 mgd wastewater treatment plant (FKAA, FL)
- Structural design review of the headworks renovation (Miami-Dade, FL)

Melissa Jauregui, PE

PERMITTING

Over 8 years of water resources engineering experience including, civil and sustainable engineering principles, design reviews, pollution control systems, data analysis and research, permitting, and report preparation.

- Design Engineer for Installation of 60-inch Force Main Basis of Design Report (Miami-Dade, FL)
- Design Engineer for the Program and Construction Management for Miami-Dade's Wastewater System Priority Projects (Miami-Dade, FL)

Ann Redmond, CEP

ENVIRONMENTAL ECOLOGY

Ann is BC's Subject Matter Expert for ecosystem restoration, Section 404 permitting and wetlands/habitat mitigation. With over 38 years of experience, she is an authority on environmental regulation spanning the areas of watershed-scale regulatory and planning solutions, all aspects of wetland mitigation, watershed-level cumulative impacts and habitat assessment, ecosystem services assessment, and frameworks for restoration planning.

- Regulatory Lead for North Lake Okeechobee Nutrient Reduction Planning (confidential client, FL)
- Provides expert advice and quality assurance reviews of our clients restoration projects nationwide, including planting plans, species lists, site conditions, documentation, wetland functional assessments, and mapping products.
- Lead Environmental Scientist for Lakes Eva & Henry Restoration Study (City of Haines City, FL)

Our committed team and key local management staff clearly and uniquely understand the City's vision, goals, and needs.

Resumes are attached on the following pages for every team member listed on our organization chart. These individuals are available to serve Riviera Beach immediately and bring successful experience in their proposed roles.

Experience Summary

Nigel Grace brings more than 30 years of experience serving in wide-ranging roles in the management and direction of complex multi-disciplinary projects that draw on diverse skill sets in areas of technology applications, regulatory negotiations, and operational/process optimization. He also serves as one of the firm's water technology leaders and through this experience brings broad insights on emerging issues of concern and the complex challenges faced by the utility community.

Assignment

Client Service Manager/ Project Delivery Officer/Utility Systems & Consulting Lead

Education

BS, Chemical Engineering, University of Florida

ME, Environmental Engineering, University of Florida

Registration

Professional Engineer: 46605, Florida, 1992

Risk Assessment Methodology for Water (RAM-WSM℠), 2002

Experience

30 years

Joined Firm

2011

Relevant Expertise

- *Water Quality Assessments*
- *Water, Wastewater, and Reuse Systems Planning, Design, and CA*

City of Riviera Beach - General Experience Overview

- Develop Design Criteria TM for improvements to existing WTP
- Conceptual planning for new membrane WTP
- Process evaluation and regulatory compliance support
- Environmental assessments in support of re-development initiatives
- Engagement of public and business community stakeholders
- Review of unsolicited design-build-operate proposal for new WTP

Water Supply/Wellfield Rehabilitation

Water Use Permitting – served as Project Delivery Officer

- City of Miramar – obtained WUP that provided for utilization of the Floridan aquifer and expanded use of the Biscayne Aquifer with the use of substitution offset
- City of Hollywood – supported permitting with modeling of the Floridan Aquifer

Wellfield Assessment and Rehabilitation

- City of Sunrise – led Springtree wellfield assessment and rehabilitation planning
- Broward County WWS – assessment and rehabilitation BODR for District 2A Wells 8 and 9; development of wellfield operating plan for South County Wellfield
- North Miami Beach – contaminant plume migration modeling, monitoring and operational mitigation measures. Rehabilitation of failing wells

Bond Engineering, Rates and Grants Consulting

Bond Engineer – served as Project Delivery Officer

- MDWASD Bond Engineer – prepped Consulting Eng Report (CER) for $250 mil bond issue, bond refinancing, assured adequacy of R&R investment, cost of service analysis, rate assessment, impact fee assessment
- Miramar – Prepared CER to support bond issue for water system expansion program (including reverse osmosis process)

SRF Loan and Grant Funding Procurement

- Led various initiatives for Cities of Hollywood, North Miami Beach, and others

Water Treatment – Optimization, Expansion and Rehabilitation

Lime Softening – various roles served

Led the assessment, design, and/or construction implementation of several lime softening treatment facilities (City of Sunrise, Palm Beach County WUD, City of North Miami Beach, Miami-Dade WASD (three WTPs ranging from 65 to 270 mgd), Broward County (two WTPs) and other facilities).

Membrane Process Upgrades/Expansion – various roles

Design/value analysis/implementation of nanofiltration, reverse osmosis and associated processes for membrane treatment facilities including City of Hollywood, North Miami Beach, City of Miramar, Palm Beach County WUD, Seminole Tribe of Florida

Project Delivery Experience

Design-Build (and Operate) Oversight and/or Delivery– served as Project Delivery Officer

- Overseas Private Investment Corporation– Served as Advisor Representative for implementation of 36 mgd seawater desalination WTP at DESALTCOTT, Trinidad
- PBCWUD – developed Design Criteria package for blower system improvements at SRWRF
- North Miami Beach – developed Design Criteria and oversaw design-build improvements at WTP
- City of Lauderhill - developed Design Criteria and oversaw design-build improvements at WTP
- Detroit Water Works Park – participated in design of multiple unit processes for design-build maintain contract for large WTP (over 200 mgd)

Conventional Design and Construction Oversight (varied roles from Project Engineer to Project Officer)

- City of Sunrise – design and construction oversight of 24 mgd expansion of Springtree WTP
- Broward County WWS – design of 26 mgd reclaimed water treatment expansion
- Miramar – design and construction oversight of water supply and RO expansion of West WTP
- Hollywood - design and construction oversight of water supply and RO expansions of City's WTP.
- PBCWUD System 8 WTP Ozone System – construction, commissioning and operator training efforts
- West Palm Beach – pump/lift stations and pipeline infrastructure design/construction

Water Quality Improvement/Optimization

Distribution System Water Quality (Project Delivery Officer or Technical Director)

- Broward County WWS – analysis of treatment and distribution system operational considerations contributing to rTCR compliance challenges in one service district
- PBCWUD – extensive evaluation of treatment and distribution system operational factors contributing to low chloramine residuals. Implemented several effective strategies.
- West Palm Beach (WPB) – evaluated distribution system WQ and improvement strategy. Significantly improved monitoring and operational coordination among tanks systemwide.
- Miami-Dade WASD (also WPB and several other systems) –corrosion control evaluation to develop optimum corrosions control strategy
- City of Hollywood – evaluated treatment and distribution operations to develop and successfully implement strategies to improve chloramine residuals system-wide
- North Miami Beach – conducted DS blending analysis to assess impact of introducing membrane treated water
- Varied national optimization studies of DBPs, disinfectant residuals, corrosion/red water, DS operation, and varied WQ issues – Tampa, FL Houston, TX, Birmingham, AL, Columbus, GA, Virginia Beach, VA

Water and Wastewater Buried Infrastructure Modeling Evaluation and Design

Water Pipelines - Planning and Modeling Evaluations (numerous applications)

- West Palm Beach – extensive modeling for master planning, water quality, fire flow, operational trouble shooting, construction impact analysis, and developer review applications
- PBCWUD – modeling for water system system operational optimization objectives
- Hollywood – system-wide modeling for planning and system-wide operational optimization

Buried Infrastructure Condition Assessment/Design

- West Palm Beach – conducted modeling and operational plan for system-wide LSs in support of the condition assessment of the 42/48-inch ECR force main; support SSES surveys of collection system; inspection/assessment of major gravity interceptor; design water main tie-in closing of critical corridor and force main relocation using trenchless technologies.
- Hollywood – multiple projects involving the replacement of over 100,000 ft of water mains
- Miramar – design of approx. 5 miles of a 20/24 in diversion force main
- Pompano Beach – design of reclaimed water distribution system (8 to 24 in pipes)

Representative Business/Systems Consulting

- Automated Metering Infrastructure Pilot Programs (Miami-Dade WASD, Broward WWS)
- Customer Service Performance Assessment (Broward WWS)
- Enterprise Performance Measures (Miami-Dade WASD)
- Utility Acquisition Feasibility Assessment and Due Diligence (Miami-Dade WASD, St. Lucie County, others)
- Customer Billing System Migration Planning (City of Hollywood)
- Laboratory Information Management System (Virginia Beach)

Albert L. Perez, PE

Experience Summary

Mr. Perez is a progressive and visionary leader with over 25 years of experience in the water and wastewater business sector. Mr. Perez is a business manager with strong technical and financial competencies, and a demonstrated track record of leading large organizations. He is an experienced consultant with keen business acumen and a proven track record in utility management consulting, business development, program management, water and wastewater project delivery, and construction administration.

Prior to working with Brown and Caldwell, he served in the capacity of Utilities Director for the City of Hollywood, where he was responsible for the administration of the Southern Regional Wastewater Treatment Plant which provides wastewater service to several cities within Broward County. In his capacity as a utility administrator he has been directly involved in the implementation of large capital improvements projects including the development of key programmatic elements such as development of funding plans and alternative project delivery. Mr. Perez has been intimately involved in various regional initiatives of importance within Broward County including his role as chair of the Broward County Water Task Force Technical Team, and also direct involvement with Broward County and Miami-Dade County in a multi-year effort to address changes to Senate Bill (SB) 1302 also known as the Ocean Outfall Legislation. In addition to his experience in the area of utility administration, he has also been involved in the delivery of various projects throughout South Florida.

Assignment

Principal-in-Charge

Education

B.S., Civil Engineering, Florida International University

Registration

Professional Engineer, Florida

Experience

25 years

Joined Firm

2012

Relevant Expertise

- *Utility Management Consulting*
- *Operations Performance Management and Optimization*
- *Capital Improvements Planning*
- *Alternative Project Funding Strategies*
- *Utility Master Planning*
- *Strategic Planning for Business Development*
- *Program Management*
- *Construction Management*

Water and Wastewater Master Plan, City of West Palm Beach, Florida

Principal in Charge. Developed a comprehensive Water/Wastewater Master plan that models the City's systems and prepares a Capital Improvement Plan that includes deferred asset maintenance and repairs, as well as new infrastructure needed to serve the community for the next 20 years. This Plan is unique in that it fully integrates the CIP scheduling process with a rate model to assign and demonstrate financial feasibility for all projects – not only capital needs, but the associated O&M requirements for existing and future projects.

Asset Management Program, City of West Palm Beach, Florida

Principal in Charge. The City of West Palm Beach Public Utilities Department manages, operates and maintains a 55 mgd Wastewater Treatment Plant, a 47 mgd Water Treatment Plant, over 1,000 miles of water and sewer mains, and 125 lift stations. The City contracted with BC to embark on the development of an Asset Management Program with a vision to develop an effective asset management organization that reduces the life cycle cost and impacts of asset ownership and enhances customer service through: Effective and Efficient Processes, Enhanced Systems, Highly Trained and Motivated Staff, and Commitment to Continuous Improvement. Specific tasks to be accomplished include: Assessment of Existing Asset Management Practices and Improvement Plan, Assessment of Information Systems (including Datastream CMMS), Establishment of an Asset Management Steering Committee, Asset Management Training Sessions, and Improvement Plan Implementation.

City of Sunrise Springtree Water Treatment Plant Expansion, Florida

Project Engineer. Served as project engineer for the expansion of the Springtree Water Treatment Plant. This project consisted of a 24-mgd expansion of a lime softening facility which included the construction of additional Accelator clarifiers, dual media filters with air scouring, transfer pump station, high service pump station, and chemical feed systems.

Distribution System Water Quality Improvements, Hollywood, Florida

Principal in Charge. The City of Hollywood had observed declining chlorine residuals along the north part of the barrier island during its routine water sampling activities. The source of the issue was identified, immediate actions were recommended, and longer-term solutions were proposed.

Potable Water Main Replacement Projects, City of Hollywood, Florida

Principal in Charge. Design, permitting, and construction management services for water distribution system improvements for approximately 29,000 linear feet of new potable water main. A second project that is in process involves the surveying, geotechnical investigations, design, permitting, bidding, and limited construction administration services for the replacement of approximately 60,500 linear feet of water mains.

City of North Miami Beach Water Plant Expansion Program, Florida

Program Manager. Served as program manager for a $100-million capital improvements program which included the construction of Biscayne and Floridan Aquifer wells, a new nanofiltration and low pressure reverse osmosis treatment plant, chemical feed systems, standby power generators, concentrate disposal injection well, high service pump station, finished water storage facilities, and water distribution system upgrades.

Miami Dade Filtration System Evaluation and Pilot Study, Florida

Program Engineer. Conducted a comprehensive evaluation of the filtration system at the three major water treatment facilities (Hialeah, Preston, and Orr) to identify filtration system improvements necessary to increase turbidity removal. Several filtration media configurations were evaluated using a filter pilot column to determine their effectiveness in turbidity removal.

City of Hollywood, Florida

Director of Public Services. Executive management position responsible for the administration of a major regional water and wastewater utility and public works operations. Directed a 300-employee department comprised of four (4) enterprise funds (water, sewer, stormwater, and sanitation) and six (6) general fund public works operations with an annual operating budget of over $120-million.

City of North Miami Beach, Florida

Assistant Director of Public Services. Senior management position responsible for the administration of a regional water utility and public works operations with an annual operating budget of approximately $30-million. Served as program manager for the implementation of a $100-million capital improvements program which included the construction of a new state of the art low pressure reverse osmosis plant, nanofiltration membrane facility, raw water supply facilities, water distribution system improvements, and remote water storage and pumping facilities.

North Regional WWTP Reclaimed Water Plant Expansion, Broward County Water and Wastewater Services' (BCWWS), Broward County, Florida

Principal in Charge. BCWWS' existing reclaimed facility to increase its firm rated capacity from 10 mgd to approximately 26 mgd. This project is a result of the Ocean Outfall Legislation. The expansion will treat secondary effluent to meet High Level Disinfection (HLD) standards as defined by the Florida Department of Environmental Protection (FDEP). The proposed expansion is estimated at $53 million construction cost and includes construction of a new filter feed pump station, additional filters, chemical storage and feed, chlorine contact basins, reclaimed water pump station, electrical power distribution and requisite back-up emergency power. Additional elements include integration of existing/aging infrastructure with proposed infrastructure, maintenance of operations during extensive electrical/structural/process tie-in, design process to handle wide-ranging operating conditions from startup to buildout, and coordination between BCWWS operations and engineering teams and eight subconsultants working on various elements.

General Engineering Services, Sunrise, Florida

Principal in Charge. BC currently has a General Engineering Contract with the City of Sunrise. Projects performed under this contract include a comprehensive Reuse Plan that will allow the City to more efficiently use their existing Biscayne aquifer supply, and multiple projects at the Sawgrass WWTP, including: headworks improvements, high-level disinfection facilities, and an aeration system efficiency study.

Experience Summary

Mr. Schultz has 20 years of experience in the design, construction, commissioning, and optimization of water and wastewater treatment plants, pipelines, and large pumping systems. His recent experience has included the front-end project delivery planning, alternatives analysis, design-builder and contractor evaluation and selection, and general program and project management. Mr. Schultz has extensive experience in alternate delivery projects including design-build, progressive design-build, and construction manager at risk. He also has experience in the instrumentation and control design of water and wastewater treatment facilities.

Assignment

Contract Manager/Project Delivery & Criteria Development Lead/CIP MGMT and Controls/Scheduling

Education

BSME – University of Denver

BSEE – University of Denver

Registration

Professional Engineer – FL & CO

PMI Project Management Professional

Experience

20 Years

Joined Firm

2018

Relevant Expertise

- *Large Diameter Pipelines*
- *Large Pump Stations*
- *Design/Build Delivery*
- *Advanced Water Treatment Facilities*
- *FPL Cooling Water Facilities and Pipelines*
- *OSHA 30*

SDS Raw Water Pump Stations, Colorado Springs Utilities, Colorado Springs, Colorado

Project Manager. As part of the program management leadership team, Mr. Schultz developed the Progressive Design-Build delivery strategy for the $110M raw water pump station component of the SDS Program that included an option to convert to a traditional Design-Bid-Build delivery should favorable market conditions exist. After managing the project through design and permitting, the Design-Build contract was terminated and the construction was hard bid to prequalified construction contractors. Through construction, Mr. Schultz performed as the Construction Manager, administering and managing one $80M construction contract, one $6M engineering contract, and fifteen separate 3rd party testing contracts. He also managed a team of twenty construction professionals across three separate construction sites. The raw water pump station project was completed on scheduled in 2015 and finished $10M under budget.

SDS 66” Raw Water Pipeline, Colorado Springs Utilities, Colorado Springs, Colorado

Design Manager. Mr. Schultz provided design oversite and review of the raw water pipeline projects which included approximately 50 miles of 66” buried steel pipe with epoxy coating and cement mortar lining. The total project value of the raw water pipeline projects was over $300M, delivered in multiple Design-Bid-Build and Design-Build contracts.

SDS 50 MGD Water Treatment Plant, Colorado Springs Utilities, Colorado Springs, Colorado

Design Manager. Mr. Schultz provided design oversite and review of a new 50 MGD surface water treatment plant, including flocculation/sedimentation basins, ozone contactors, GAC filters, and future provisions for UV reactors. The $145M project was delivered using a Progressive Design-Build methodology.

FPL Reclaimed Water Facility Upgrades, City of West Palm Beach Water Utilities, West Palm Beach, Florida

Owner’s Representative. Mr. Schultz oversaw design and construction of a $2M Design-Build contract to provide improvements to the FPL Reclaimed Water Facility that treats and delivers cooling water to FPL’s West County Energy Center. Improvement included a storage tank bypass, additional pumping capacity, and other miscellaneous upgrades which required close coordination with FPL’s WCEC operations during scheduled outages.

Reclaimed Water Pipeline to the Ballpark of the Palm Beaches, City of West Palm Beach Water Utilities, City of West Palm Beach, Florida

Owner's Representative. Mr. Schultz oversaw design and construction of a 2 mile, 12" HDPE reclaimed water pipeline that delivers reclaimed water to The Ballpark of the Palm Beaches – the newly constructed spring training facility for the Houston Astros and Washington Nationals. The project included three horizontal direction drill crossings of canals and roadways. The project cost was $2M.

Prairie Waters Conveyance System, Aurora Water, Aurora, Colorado

Startup Manager. As the Startup and Commissioning Manager, Mr. Schultz managed field testing and startup activities for 40 miles of 54" buried steel pipe and three inline pump stations, conveying raw water from the South Platte River via surficial wells to a new water treatment plant.

Biosolids Improvement Project, West Palm Beach Water Utilities, City of West Palm Beach, Florida

Project Manager. Mr. Schultz managed construction and engineering tasks for the $120M Biosolids Improvement Project at the East Central Regional Water Reclamation Facility, which includes six new sludge digesters, centrifuge sludge dewatering, septage and FOG receiving, and aeration basin

Facilities Expansion Program, Cape Coral Utilities Department, Cape Coral, Florida

Supervising I&C Engineer. The Facilities Expansion Program, Wastewater, consisted of six Construction Manager at Risk projects totaling $375M in total construction value ($18M in I&C), including two wastewater reclamation facility expansions, one new wastewater reclamation facility, one new sludge drying facility, two new master pump stations and a new operations and maintenance facility. As the lead I&C engineer Mr. Schultz provided instrumentation and control expertise during pre-design and detailed design phases, and supervised on-site inspections and testing during the construction phase.

Pump Stations G-370 & 372, South Florida Water Management District, West Palm Beach, Florida

Project Engineer. For this large construction project Mr. Schultz provided construction management and inspection services for control and electrical systems of two 900 MGD pump stations for the South Florida Water Management District's (SFWMD) Everglades Revitalization Project. Responsibilities included control system factory acceptance testing, electrical inspections and testing, calibration testing of instrumentation, loop testing, functionality testing of control system hardware and software and electrical and instrumentation punch list development. The project won the American Council of Engineering Companies Grand Conceptor Award in 2005.

Publications

1. FWRC 2018, Daytona Beach, FL: "The ECRWRF Capital Program – Addressing the Needs of a 70's Era Wastewater Plant"
2. ASCE 2016 Pipeline Conference, Kansas City, MO: "Planning and Execution of the Southern Delivery System Startup – Five Years in the Making"
3. ASCE 2014 Pipeline Conference, Portland, OR: "Life Cycle Procurement of Pumping Equipment for a 50,000 Horsepower Raw Water Supply System – The Southern Delivery System"
4. ASCE 2014 Pipeline Conference, Portland, OR: "Value Engineering and Final Design of a Hydraulic Surge Control System for a Major Raw Water Supply System – The Southern Delivery System"
5. WEFTEC 2010, New Orleans, LA: "SCADA 101, Control System Fundamentals"

Experience Summary

Mr. Hurlburt brings over 45 years of experience in the study, design, permitting, construction administration, and resident engineering of various potable water transmission, distribution, supply and treatment projects, reclaimed water transmission projects, wastewater collection, transmission and treatment projects, and underground storage tank projects. He has completed numerous water and wastewater projects as well as plant startup and pilot plant operations in the U.S. and Puerto Rico. His water treatment experience includes conventional lime softening as well as membrane softening, reverse osmosis and ozone technologies. Mr. Hurlburt has served as the Design Manager on the City of Hollywood pipeline projects.

Assignment

Technical Advisor-Buried Infrastructure

Education

BS (Civil Engineering); University of Vermont, Burlington, Vermont

Registration

PE Florida, 33836

Experience

45 years

Joined Firm

2013

Relevant Expertise

- *Potable Water Transmission, Distribution, Supply and Treatment*
- *Reclaimed Water Transmission*
- *Wastewater Collection*
- *Plant Startup*
- *Pilot Plant Operations*

Water Main Replacement Project, City of Hollywood, Florida

Design Manager. Responsible for the design, permitting and bid phase and construction administration services for the replacement of 60,500 linear feet of water mains. Included is replacement of water mains within Hollywood Boulevard right-of-way and project also includes five horizontal directional drills (HDDs).

Potable Water Main Replacement Project, City of Hollywood, Florida

Design Manager. Responsible for the design, permitting and bid phase engineering services for the upsizing and replacement of approximately 28,000 linear feet of potable water distribution main in the service area bounded by N. 22nd Avenue, N. 24th Avenue, Sheridan Street and Pershing Place.

Raw Water Pipe Replacement Project, City of Hollywood, Florida

Design Manager. Project manager for the design and construction phase services for the replacement of the exposed, above ground segment of 36-inch diameter raw water supply piping, valves and flow meter supported on existing pipe support system located on the water treatment plant property. The project also included improvements to the sulfuric acid storage and delivery system.

Re-development Water Transmission and Distribution Main Improvements - Area Nos. 1 and 2, City of Miramar, Florida

Project Manager. Project manager for the design and permitting of new water mains in the City's Eastern Service Area consisting of approximately 22,420 linear feet of water mains, including valves, tapping sleeves, water services, abandonment of existing water mains and restoration of roadways and grassed areas.

Potable Water System Improvements, City of Pompano Beach, Florida

Design Manager. Project manager for design and permitting of potable water main by directional drilling segments under three canals to replace exposed piping supported on bridges.

Continuing Water Consultant Services, City of Daytona Beach, FL

Project Manager. Provided complete portfolio of planning, study, design, and construction phase services as the project manager as the City's general water consultant. Projects included pipeline (ranging from 6-inch diameter to 30-inch diameter piping) extensions, and pipeline replacement projects to include construction methods using jack and bore, microtunneling, and open cut, as well as river crossing installations. Other water discipline projects included design for refurbishing of elevated potable water storage tanks, potable water booster pumping stations, and ground storage tanks. All water distribution system projects included clearance permitting through FDEP and local health department.

24-inch, 16-inch and 12-inch Diameter Water Transmission Main, Florida Governmental Utility Authority, Poinciana, FL

Project Manager. Project manager for design, permitting and construction administration of four miles of 24-inch, 16-inch and 12-inch diameter water transmission main between WTP No. 2 and Poinciana Boulevard.

Clearview Manor Waterline Improvements, Bradenton, FL, Manatee County, FL

Project Manager. Project manager for design, permitting and construction administration of improvements to the water distribution system in the residential subdivision, Clearview Manor. Project features involved upsizing water mains, adding fire hydrants and relocating residential water service connections, and involved the installation of approximately 10,300 linear feet of 6-inch and 8-inch diameter water main by both open cut and trenchless technology methods.

Buried Infrastructure Improvements for Disney Western Beltway, Reedy Creek Energy Services, Orlando, FL

Project Manager. Project manager for extension of existing utilities to include 8,000 linear feet of 16-inch diameter water main, 12-inch diameter force main and 12-inch diameter reclaimed water main within the right-of-way of Disney's Western Boulevard.

Pipeline Crossing of Interstate 95 by Directional Drilling, City of Daytona Beach, FL

Project Manager. Project manager for design, permitting (FDEP, FDOT and Volusia County Health Department) and construction administration of a combination of jack and bore installation, and open trench installation for one mile of 24-inch diameter water main, 12-inch diameter reclaimed water main and 8-inch diameter sewage force main crossing under Interstate 95 at LPGA Boulevard in Daytona Beach.

Broadview Estates Bid Package 2 Design for Wastewater Collection Systems, Broward County Water and Wastewater Services, Pompano Beach, FL

Deputy Project Manager. Deputy project manager for the design of a new gravity sewer collection system (approximately 20,700 linear feet of 8-inch and 10-inch diameter) for the neighborhood improvement project within the Broadview Estates residential subdivision.

Sewage Pump Station Modification Projects, City of Miami Beach, FL

Project Manager. Responsible for construction administration, resident engineering oversight and operations manual development for several sewage pump station modification projects.

Sewage Force Main Improvements, City of Miramar, FL

Project Manager. Project manager for design and permitting (FDEP and Broward County agencies) of extensions for existing sewage force main system segments in two areas of the City's service area to remedy an overflow situation.

Design and Construction 36-inch and 42-inch Sewage Force Main for CONSERV I Flow Diversion, City of Orlando, FL

Project Manager. Project manager for study, design, permitting (SJRWMD, FDEP, FDOT and Orange County) and construction administration services of a phased (Phase 1 and 2) 8.5 miles segment of 36-inch, 42-inch, and 48-inch diameter sewage force main with numerous trenchless technology crossings of roadways and waterways. Project limits were from the intersection of Grant Street and SR436 to MH444 in Dean Road just north of the Econolochatchee River. Phase 1 (3.5 miles of 42-inch and 48-inch diameter force main) has been constructed to date.

Sewage Collection System Improvements, Lake Nona Service Area, City of Orlando, FL

Project Manager. Provided study, design, and construction phase project manager services for the City's Lake Nona sewage pump station (3.5-mgd capacity at build-out and the associated gravity sewer system [8,600 linear feet of 24-inch diameter piping]), sewage force main (21,000 linear feet of 24-inch diameter piping), and reclaimed water (29,900 linear feet of 16-inch diameter piping). The project also included permitting (FDEP) wetland delineation services and coordination with the Orlando Utilities Commission for the development of pipeline alignment alternatives in the electrical transmission system right-of-ways, and with FDOT for roadway right-of-way alignment locations. Most of the pipelines were designed for open-cut construction, but numerous jack-and-bore installations were required for various roadway and railroad crossings.

Experience Summary

Larry Vicars' brings more than 22 years of professional experience in engineering sophisticated water treatment and pumping system processes. He has an excellent record in process control measures including development of control logic, circuit analysis, trouble shooting and acceptance testing initiatives. Mr. Vicar's experience includes strong project management skills and process engineering capabilities with a thorough understanding of construction techniques, mechanical equipment, startup procedures and site acceptance testing. He possesses keen analytical and problem-solving skills associated with instrumentation and control, ladder logic drawings and electrical schematics. Mr. Vicar's addressed and met head-on the challenge of expanding engineering treatment processes for multiple water plant systems including permitting, negotiating and coordinating owner furnished equipment and project closeout.

Assignment

Technical Advisor-Treatment & Construction Administration

Education

Bachelor of Science, Chemical Engineering, University of Florida

Registration

PE Florida 60704

Certified General Contractor

Experience

22 years

Joined Firm

2009 - 2013

2015 - present

Relevant Expertise

- *Treatment*
- *Pumping Systems*
- *Project Management*
- *Construction Management*
- *Permitting*

Various Projects, Florida

Process Engineer. Process Engineer on Water and Wastewater treatment projects with expert knowledge of the following technologies: Reverse Osmosis, Pretreatment Filtration, Ion Exchange, Chemicals, Stripping Tower (degasification) process, Absorption (odor control) process, product storage, and pumping systems.

Project accomplishments include:

- Design Engineer responsible for the iron removal pretreatment process, the existing 1.5 MGD Nanofiltration treatment process, and for providing 0.75 MGD of raw water blend.
- Provided membrane analysis and selection, coordinated membrane replacement, and provided startup services for Indian River County's four existing RO treatment trains.
- Design Engineer responsible for engineering treatment processes associated with the expansion of various Martin County Utilities' Water Treatment Plants.
- Design Engineer responsible for all treatment processes associated with the expansion of Martin County Utility Tropical Farms Water Treatment Plant.
- Participated in pilot testing and design engineering for the removal of color and organics from membrane softening plant's concentrate and raw water.
- Design and application of digital and analog control systems for regulatory and Supervisory Control and Data Acquisition (SCADA), development of control strategies and coordination of work between the electrical engineering and the mechanical engineering disciplines.
- Development of process flow diagrams (PFD), piping and instrumentation (P&I) diagrams, systems design, and control philosophy for the programmable logic controllers (PLC) and SCADA systems.
- Strong technical skills in treatment plant start-up, control loop verification, operational readiness testing which includes electrical and ladder logic schematic analysis, troubleshooting and adjusting the control strategies to meet the specific process requirements.
- Design Engineer responsible for obtaining permits from the governing Health Department. Design engineering for the expansion of the Village of Royal Palm Beach Water Treatment Plant.
- Design and Project Engineer responsible for permit, design, and construction phase services of a 345,000-gallon gravity-filter backwash recovery basin, modifications to the lime sludge blowdown lines, and construction of a sludge pumping pit.
- Project Engineer and Site Engineer for the construction phase.

G-434, G-435 and G-436 Pump Stations, South Florida Water Management District, West Palm Beach, Florida.

Lead Project Engineer. Lead Project Engineer responsible for simultaneously overseeing three stormwater pump stations G434, G-435 and G-436, for the South Florida Water Management District. The pump stations had pumping capacities of 1120 cfs, 480 cfs and 1,600 cfs, with a combined Contractor's cost of approximately $60 million dollars. Coordinated the purchase and delivery of owner furnished equipment valued at nearly $30 million dollars. Engaged in every aspect of construction engineering from blasting cap-rock to final acceptance testing.

C-44 Reservoir S-401 Pump Station Construction Management, South Florida Water Management District, West Palm Beach, Florida

Construction Management Services. Provide support and augment staff in the construction management of the S-401 Pump Station for the C-44 Reservoir/STA Project. The project includes the construction of a 21,000-square foot, fully operational, three story pump station building with four 275 cubic feet per second (cfs) electric pump systems and the remaining 600 feet of the C-44 Intake Canal.

L-8 Reservoir, South Florida Water Management District, West Palm Beach, Florida

Construction Management Services. Provided support on the L-8 Reservoir Modifications, Pump Station and Inflow Structure project. The L-8 project is a $63 million Design-Build project that consist of a 46,000 acre-feet reservoir storage with perimeter embankment improvements, reservoir cell modifications, a new boat ramp facility, a new 450 cfs, a 2-stage outfall pumping station, a three-gate inflow gate structure with a maximum capacity of 3,000 cfs from L-8 Canal to the L-8 Reservoir and a new road bridge across the new inflow canal.

Various Project, LVI, Florida

Owner and Operator. Founded State Certified General Contracting Corporation.

- Fostered business growth while serving commercial and residential accounts.
- Stellar record of customer satisfaction. Customer satisfaction testimonials and word of mouth led to higher sales.
- Excellent record of progressive business growth with multiple years of revenue in $750K–$950K.
- Interior subcontractor on a 10-story office building, (Radisson) hotel, restaurant and conference rooms. (Contract values ± $500K.)
- Interior build out of 10,000 square foot United Postal Service distribution facility in Boca Raton, Florida.

Leofwin Clark

Experience Summary

Leofwin Clark has 29 years of experience in infrastructure advisory services, business development, and sales, with a focus on design-build (DB), design-build-operate (DBO), and public-private partnership (P3) efforts for water/wastewater and transportation projects. He is considered an industry thought-leader for collaborative delivery education, training, research, and the application of P3 delivery models for the water and wastewater industry. Leofwin offers expertise in the development of decision criteria and analysis tools for the full spectrum of current project delivery methodologies. He is also a facilitator with extensive experience in leading workshops and training for diverse groups.

Assignment

Technical Advisor-Project Delivery Strategy

Education

M.S., Urban Planning, Columbia University Graduate School of Architecture, Planning, and Preservation, New York

B.A., Urban Studies, Columbia University, New York

Key Affiliations

Water Design-Build Council, Past President (2016) Education Committee Chair (2017)

Design-Build Institute of America, Water and Wastewater Committee Member; Past Conference Co-Chair (2014)

Experience

29 years

Office Location

Denver, Colorado

Joined Firm

2016

Relevant Expertise

- *Delivery method analysis and procurement support*
- *P3 project development*
- *Training and workshop facilitation*

Owner's Advisor Public-Private Partnership (P3) Services, Colorado Springs Utilities, Colorado Springs, Colorado

Principal in Charge. Provided feasibility assessment and procurement support to leverage existing biogas production and waste digestion infrastructure assets into an economically sustainable program. Initial analysis includes Value for Money and economic feasibility analysis. Follow-on scope includes development of risk allocation and deal structure, followed by procurement documents.

AlexRenew RiverRenew Program, Alexandria, Virginia

Owner Advisor/Task Lead. Working with the overall program management team and client program office to identify the best delivery method for the overall program and individual projects to meet client-specific priorities and needs, including client interviews, delivery and risk workshops. In addition, the task involves industry outreach and procurement planning, with future scope to develop the RFQ and RFP documents for the primary Fixed-Price Design-Build tunnel and pumping stations project and other associated program projects using traditional design-bid-build procurement.

Procurement Owner Advisor, PureWater Program, Soquel Creek Water District, Soquel, California

Task Lead. Developing design, build, and operate delivery methodology and procurement documents for a new indirect potable reuse system for seawater intrusion protection. Supported the program in coordinating a multi-agency participation in treatment development within grant funding parameters and multiple construction sites and conveyance scope. Integrated operations and lifecycle approaches into the planned design-build procurement process.

Delivery Method Analysis and Owner Advisory Services, Various Clients

Provides insight to the full spectrum of collaborative delivery methods, guiding Owners in identifying key issues, priorities, and preferences. Uses training and workshops to refine and document Owner priorities, followed by efficient procurement processes and evaluation methodologies.

New Water Treatment Plant Design-Build-Operate Owner Advisor Services, Idaho Water Resources Board, Boise, Idaho

Owner Advisor, Procurement. Provided procurement analysis and method selection, RFQ and RFP documents, and technical support for a surface water intake, multi-mile conveyance and pumping facility, and greenfield WTP to provide a reliable supply to the Mountain Home Air Force Base.

Piscataway Wastewater Treatment Plant (WWTP) Bio-Energy Project, Washington Suburban Sanitary Commission (WSSC), Washington, D.C.

Procurement Advisory Support. Supported the HDR/BC Program

Management team to develop a procurement process and accompanying documents for progressive design-build of a bio-energy conversion project, including Cambi.

Bureau of Engineering, Los Angeles, Log Angeles, California

Owner Advisor. Supported the Bureau of Engineering's first design-build procurements for rehabilitations of large diameter sewer infrastructure. Developing a single-step QBS procurement model and an on-call, two-step selection methodology.

Ocean Water Desalination Program Delivery Models/Value for Money Analysis, West Basin Municipal Water District, Carson, California

Senior Project Analyst. Developed a delivery analysis methodology tailored for a new seawater desalination facility. Conducted staff interviews, executive leadership and Board workshops, and coordinated with a value-for-money analysis task to identify a preferred set of procurement strategies.

Mississippi River Sediment Diversion Program Alternative Delivery Options Analysis, Louisiana State Coastal Protection and Restoration Authority (CPRA), Baton Rouge, Louisiana

Senior Project Manager for Alternative Delivery Analysis Task. Led the Alternative Delivery Analysis for CPRA's Mississippi River Diversion Program through the selection of a preferred procurement methodology. This effort, including a Market Sounding, included analysis of CMAR, design-build, and P3 options for two large Mississippi River sediment diversions with an estimated capital value of over $1.5 Billion.

Biosolids Treatment Facility P3 Project, Technical Advisor, City of Hamilton, Ontario, Canada

Technical Advisor for Design-Build. As a sub consultant to Deloitte, supported the P3 procurement of a new biosolids treatment facility and marketing/disposal agreement for at Hamilton's existing WWTP. Provided insight and advice on design-build best practices, risk allocation, and evaluation methodology as part of a P3 advisory team.

Solid Waste Organics Program Alternative Delivery Options Analysis, City of Calgary, Calgary, Alberta, Canada.

Practitioner Advisor. Supported the development and implementation of a DBO procurement to establish a new composting facility for City of Calgary's Solid Waste Organics program. Identified potential design-build and P3 procurement options for a greenfield solid waste facility. Scope included a delivery methods workshop for City staff, development of project ranking criteria for the City's project management team, and participation in a value-for-money analysis in support of the City's P3 procurement policy. After identification of DBO as the preferred procurement method, supported the procurement implementation to align contract terms, risk allocation, and evaluation criteria with industry best practices.

Alternative Delivery Analysis – Combined Sewer Overflow (CSO) Program, City of Omaha, Omaha, Nebraska

Design-Build Consultant. Developed and facilitated Alternative Delivery workshop to City of Omaha staff and stakeholders in support of Program Management services for the City's long-term CSO program. Used decision science methodology to assess owner's project delivery priorities, rank criteria, and developed survey to collect and analyze rankings for specific program projects. Provided ongoing support to define alternative delivery best practices, identify candidate projects for CMAR and design-build, and to review and revise legislative statutes to enable alternative delivery procurement on the Program under state law.

Asset Management Services/North End Water Pollution Control Centre (NEWPCC), City of Winnipeg, Winnipeg, Manitoba, Canada

Alternative Delivery Methodology Advisor. Participated in the City of Winnipeg's program to improve their Capital Program Project management improvement effort, developing alternative project delivery analysis criteria for the Asset Management Program with a focus on major improvements to their largest WWTP.

Cotleur & Hearing

Donaldson E. Hearing, PLA, ASLA, LEED ®AP
Principal
38 Years of Experience
561.747.6336 x102
E-Mail: dhearing@cotleur-hearing.com
1934 Commerce Lane, Suite 1, Jupiter, FL 33458

Education

1982: University of Florida, Bachelor of Landscape Architecture; Graduated with High Honors
1982: American Society of Landscape Architects Scholastic Merit Award
1982: National Honor Society Scholastic Achiever
1994: USACOE Hydro Geomorphic Wetland Assessment Methodology Training
2008: USGBC LEED Certification Course

Professional Experience

Mr. Hearing has over thirty years of experience in landscape architecture, land use, and planning and zoning consultation. Don Hearing has been practicing in South Florida since 1982. He is a partner of the planning and landscape architectural firm of Cotleur & Hearing founded with partner, Robert J. Cotleur, Jr., in 1991.

Mr. Hearing has extensive expertise in the area of land use, planning and zoning, and has represented several of south Florida's largest builders/developers in governmental affairs, land use and zoning approval matters. Mr. Hearing is routinely involved in complex land use plan matters, roadway enhancement projects, development approvals and re-zonings, landscape ecology projects and environmental resource permitting. He has become an enthusiastic leader in the area of new urbanism, and is responsible for several successful new urbanism projects in Jupiter's Abacoa DRI. Recently, he was responsible for the planning of New Urban Communities' Botanica neighborhood, Menin Development's Downtown at the Gardens and the Borland Center for Community Enrichment in Palm Beach Gardens.

As project manager, Mr. Hearing has been responsible for the design and permitting of Florida Power & Light Company's 13,455-acre Everglades Mitigation Bank which is the largest of its kind in the United States. He is an outspoken advocate and expert in the practice of sustainable development principles.

As practicing landscape architects, Mr. Hearing and Mr. Cotleur believe it is essential to have a primary role in the design and management of all the firm's projects. Mr. Hearing has been and will continue to be responsible for the management of Cotleur & Hearing's projects with the Department of Transportation (FDOT) and local governments. In this capacity, he has been responsible for the Turnpike District's Polk Parkway, FDOT District IVs Lake & Lucerne, Lake Worth Road Roundabout, SR 5 & SR 76 in Stuart, and University Drive and the town of Jupiter's SR 5 and Military Trail Corridor improvements. **Mr. Hearing also has experience in providing expert witness testimony in the areas of land use planning, zoning, eminent domain, transportation enhancement and landscape ecology matters.**

Professional Affiliations

State of Florida Registered Landscape Architect #LA0000943; Certified LEED Accredited Professional; Member American Society of Landscape Architects; Board of Directors and Executive Committee for the Northern Palm Beach County Chamber of Commerce and the Economic Development Council of Palm Beach County; Director for the PGA Corridor Association and the Lighthouse Center for the Arts as well as Board member for MyClinic of Jupiter. In conjunction with his business interests, Mr. Hearing is actively involved in numerous charitable organizations which include Christ Fellowship Church, Palm Beach Community Church, Jupiter Christian School, Place of Hope and the West Jupiter Tutorial Center.

Awards

2012 Community Leader of the Year by Northern Palm Beach County Chamber of Commerce
2011 American Institute of Architects Landscape Architect of the Year by Palm Beach County

Work History

1991: Principal; Cotleur & Hearing
1984 - 1991: Partner; GBSH

Notable Projects

Commercial (**Below are but a few sample projects, by category, with reference information)**
Downtown at the Gardens, Palm Beach Gardens, FL – Menin Development;
Reference: Mr. Rob Jacoby, 561-282-5000
Bascom Palmer Eye Institute, Palm Beach Gardens, FL – Bascom Palmer Eye Institute;
Reference: Ms. Coreen Rodgers, 305-326-6031
PGA Design Ctr, PBG, FL – Catalfumo Construction; Reference: Mr. Dan Catalfumo, 561-694-3000
Abacoa Work Place, Jupiter, FL – Rendina Companies; Reference: Mr. Brian Cich, 561-630-5055

Community
Sawfish Bay Park, Jupiter FL – Town of Jupiter; Reference: Mr. Russ Ruskay, 561-746-5134
Palm Beach County Fire Stations #10, 14, 34 and 74; Reference: Ms. Melanie Borkowski, 561-233-0257
North County Governmental Center, Palm Beach Gardens, FL - PBC Facilities & Development;
Reference: Ms. Melanie Borkowski, 561-233-0257

Community Pro Bono
Christ Fellowship, PBG & Royal Palm Beach, FL – CF; Reference: Pastor Mullins, 561-799-7600
Gardens Shul, Palm Beach Gardens, FL; Reference: Rabbi Dovid Vigler, 561-847-7070
West Jupiter Community Center, Jupiter, FL; Reference: Ms. Mary Hinton, 561-746-5873
Place of Hope & Village of Hope, Palm Beach Gardens, FL; Reference: Mr. Charles Bender, 561-775-7195

Environmental Restoration
PBC Sansbury Way Park Regional Mitigation Area, WPB, FL; Reference: Mr. Ross Herring, 561-233-0217
Everglades Mitigation Bank, Biscayne Bay/Turkey Point Nuclear Facility, FL – Florida Power & Light Co.; Reference: Mr. Jack McNeal; Phone: 561-694-4860
Botanica Wetland Preserve, Jupiter, FL – NPBCID; Reference: Mr. Bardin, 561-624-7830

Mixed Use
Abacoa: Greenwich, Dakota, Bermudiana and SeaPlum Town Center, Jupiter, FL – New Urban Communities; Reference: Mr. Tim Hernandez, 561-279-8706
East Lake Traditional Neighborhood Development, City of Port St. Lucie, FL -- deGuardiola Development; Reference: Scott Hedge, 561-691-5858
Midtown-Borland Center, Palm Beach Gardens, FL – Palm Beach Community Church Ram Development; Reference: Mr. Casey Cummings, 561-630-6110

Residential
Island at Abacoa, Jupiter, FL; Reference: Mr. Rick Covell, 561-222-6669
Portosol, Royal Palm Beach, FL – Minto Communities; Reference: John Carter, 954-935-6511
Rialto, Jupiter, FL – Lennar Homes; Reference: Mr. David Baselice, 561-333-4700

Transportation
Turnpike District's Polk Parkway, FL; Reference: Bruce Mantell, 954-934-1211
FDOT District IV's Lake & Lucerne, FL; Reference: Joe Borello, 954-777-4400
Lake Worth Road Roundabout, Lake Worth, FL; Reference: Joe Borello, 954-777-4400
SR 5 & SR 76 in Stuart, FL; Reference: Joe Borello, 954-777-4400
University Drive, District IV, FL; Reference: Jose Velarde, 954-777-4677
Town of Jupiter Military Trail Streetscape & SR5, FL; Reference: Mr. Doug Koennicke, 561-741-2258
FDOT SR 7 Collaborative Broward County, FL; Reference: Mr. James Ford, 954-777-4434
FDOT SR 1 Northern Palm Beach to Indiantown Rd., FL; Reference: Mr. James Ford, 954-777-4434
Royal Palm Beach Blvd. Okeechobee to 40th St., FL; Reference: Mr. Ray Liggins, 561-790-5162

Kenneth Hoff, CSP, CHST

Experience Summary

Ken Hoff is a collaborative leader with more than 15 years of experience in environmental health and safety (EHS) program development, internal and external customer communication, and hazard mitigation techniques related to civilian and military projects. His operations experience includes manufacturing, warehouse, construction, and heavy equipment safety (cranes, loaders). Ken has extensive experience in implementing effective EHS policies and processes, establishing training programs, and executing metrics-based operational decisions. He provides a unique global perspective with a proven ability to operate in high-pressure team environments.

Assignment

Technical Advisor-Health and Safety

Education

BS, Workforce Leadership (Occupational Training and Development), University of Louisville, Louisville, Kentucky, 2008

Certification

Certified Safety Professional, 36563

Associate Safety Professional, 30143

Construction Health and Safety Technician (CHST), Board of Certified Safety Professionals, C3532

HAZWOPER (40 hours)

OHSAS 18001 Health and Safety Management Systems Lead Auditor

OSHA 510 Occupational Safety and Health Standards for the Construction Industry

Experience

15 years

Joined Firm

2018

Relevant Expertise

- *Safety culture initiatives*
- *Behavior-based safety strategies*
- *Regulatory compliance*
- *Incident investigations*
- *Workers' compensation management*
- *Root cause analysis*
- *Corrective action implementation*
- *Industrial hygiene*
- *Metrics analysis*
- *Budget and cost reporting*
- *Scheduling and planning*
- *Training development and execution*
- *Auditing*
- *Job safety analyses*
- *Health and safety plans*
- *ISNetworld*

Health and Safety Program Management, Brown and Caldwell, Orlando, Florida

Senior Municipal Safety Manager. Ken is responsible for health and safety (H&S) program oversight of Brown and Caldwell's (BC's) three Municipal Business Units (East, West and Cal/Desert). He reviews and approves approximately 30 Field Work Safety Plans (FWSP) and supplementary requirements for municipal projects monthly. Ken also oversees the management and coordination of safety training for the entire organization, which is comprised of approximately 1,600 people. He frequently leads Field Work Safety Training (4 hour) and Hazardous Waste Operations and Emergency Response (HAZWOPER) refresher (8 hour) training for employees that perform operations in the field. Additional responsibilities include reviewing and generating monthly H&S performance indicator reports for distribution to the organization, overseeing the annual review of BC's H&S manual to reflect regulatory and internal policy changes, conducting monthly internal H&S communication meetings with multiple internal teams, and approving business continuity plans for the company.

EHS Program Management, Anixter Inc., Orlando, Florida

Sr. Manager EHS. Ken managed a full spectrum of EHS projects for an electrical/utility wholesale distributor and provided guidance to executive management pertaining to safety culture improvement, accident trends, and incident reduction efforts while working remotely with 140 sites in the United States and Canada. This work included devising action plans to reduce Occupational Safety and Health Administration (OSHA) and experience modification rate (EMR) rates resulting in measurable rate reductions below industry standards, auditing over 50 sites per year for organizational and regulatory compliance, managing the development and submission of EHS contract-required deliverables for 20 large utility customers, advising and coordinating environmental regulatory compliance items related to new construction (e.g. Phase I, stormwater pollution prevention plan [SWPPP]) and maintenance of compliance items for existing branches (e.g. Environmental Protection Agency's [EPA's] Emergency Planning and Community Right-to-Know Act [EPCRA] Tier II, spill prevention, control, and countermeasure [SPCC]), overseeing Department of Transportation (DOT) regulatory compliance for a fleet of 250 commercial vehicles and a pool of 235 drivers, and coordinating EHS training for 1,700 associates, ensuring training content followed pertinent federal, state, and local regulations (i.e. OSHA, DOT, EPA).

EHS Program Management, Brunswick Boat Group, Merritt Island, Florida

EHS Supervisor. Ken led and implemented the EHS program for a recreational boat prototypes manufacturer. He conducted over 60 audits and 20 new process hazard assessments; reduced OSHA rates by 20 percent and EMR rates by 9 percent during the first year; advised managers on regulatory issues including compliance, interpretations, and inspections; maintained environmental compliance by developing SPCC, air permits, and SWPPPs; managed hazardous waste and hazardous materials transport programs in accordance with Resource Conservation and Recovery Act (RCRA) and Hazardous Materials Transportation Act regulations; and administered and evaluated comprehensive EHS training courses for 280 personnel.

Quality and H&S Program Management, Allied Container Systems, Orlando, Florida

H&S Manager. Ken managed quality and H&S programs at domestic and international military bases for a defense contractor with active Department of Defense construction contracts valued over $200M. He served as lead auditor on over 100 safety and quality audits of construction and manufacturing sites. Ken produced over 500 contract-required safety documents annually including job hazard analysis, site H&S plans, and fall protection plans; provided leadership and guidance for six safety captains that worked on domestic and international sites; reduced the organization's recordable incident rate and EMR from 4.67 in 2010 to 0.0 for 2011 and 2012 and from 1.11 in 2012/2013 to 0.79 in 2013/2014.

Instrumented Ranges, MSGI Technology, Orlando, Florida

Military Analyst II. Ken created and administered training modules to Department of the Army civilians for a defense contractor specializing in instrumented range implementation and management. He developed, delivered, and evaluated new equipment training for various United States Army Instrumented Ranges, participated in and passed government acceptance testing for three live-fire training systems, and authored contract deliverables for the United States Army pertaining to instructional design and instrumented ranges.

H&S Program Management, United States Army, Multiple Locations

Safety Manager. Ken was responsible for the health, safety, and welfare of over 750 soldiers and 250 Department of the Army civilians. He developed and delivered H&S training events for an organization of over 1,000 personnel, identified and controlled hazardous conditions and practices associated with hundreds of live-fire and non-live-fire training exercises, and audited five subordinate organizations' safety programs and mentored each organization's junior safety manager.

Experience Summary

Elí is an environmental engineer with 16 years of experience in the wastewater treatment field in South Florida. His diverse experience includes process optimization, facilities planning, and detailed design of liquid and sludge management facilities at large wastewater treatment plants. Recently, Elí has led two critical projects for MDWASD: the Cogeneration Improvements at the SDWWTP and the Headworks Project at the NDWWTP. The Cogeneration project MDWASD's first design-build undertaking and will double the capacity of the existing system. The project is being partially funded by ARRA grants, and therefore has an aggressive start-up schedule. In his role as resident engineer, Elí has successfully coordinated collaboration between the design builder and MDWASD to minimize down time of the existing Cogeneration System.

Assignment

Technical Advisor-Risk Management

Education

M.S., Environmental Engineering, Florida International University, 2004

B.S. Chemical Engineering, University of Puerto Rico, 2002

Registration

Professional Engineer, 67318, Florida

Experience

16 years

Joined Firm

2004

Relevant Expertise

- *Wastewater Treatment*
- *Pump Station*
- *Advance Water Treatment Systems*
- *Sewer Collection*
- *Project Management*
- *Construction Services*
- *Permitting*
- *Equipment Selection*

Wastewater System Design and Evaluation

North District Wastewater Treatment Plant (NDWWTP) Headworks Rehabilitation System, Miami-Dade County Water and Sewer Department, Florida

Project Manager. Engineer of Record for the rehabilitation of the two NDWWTP headworks buildings. Rehabilitation includes the replacement of the existing screening and screening conveyance system, primary sludge degritting system, sludge transfer system. Modification of one of the buildings so that it complies with applicable NFPA standards.

South District WWTP (SDWWTP) Cogeneration System Improvements, Miami-Dade Water and Sewer Department, Florida

Resident Engineer. Coordinated construction and design efforts for the upgrade of existing Cogeneration Facilities. BC is serving as the design engineer in a Contractor-Engineer team which will perform design-build services to complete this project. The design work is completed and construction is well underway.

NDWWTP Disinfection System Upgrades, MDWASD, Miami, Florida

Design Manager. *The project consists of the conversion of the disinfection system at the NDWWTP from chlorine gas to bulk sodium hypochlorite. The project also includes the addition of a new Electrical/Control Room Annex Building at a finished floor elevation of 18.5 NGVD to house critical electrical and instrumentation equipment to meet SLR requirements.*

NDWWTP Flood Protection and Sea Level Rise BODR, MDWASD, Miami, Florida

Senior Technical Advisor. The general stormwater management system at the NDWWTP has not proven to be very effective and the site experiences significant flooding during certain weather events. This project consists of developing a BODR for the rehabilitation of the stormwater management system. The scope of work consists of conducting topographic surveys, percolation tests and Phase I and Phase II environmental site assessments to develop up to three proposed alternatives for stormwater management on the site. The project will also look at how the existing site perimeter barriers will protect against wave and storm surge impacts under projected sea level rise.

NDWWTP Deep Injection Well Pump Station Improvements, MDWASD, Miami, Florida

Design Manager. The existing DIW Pump Station currently houses four vertical turbine pumps with a rated capacity of 16,000 gallons per minute (gpm) powered by 900 horsepower (hp) variable speed drives, and space for two

additional pumps. This project consists of the design of the two additional pumps. BC evaluated the existing equipment and wetwell configuration to ascertain the maximum hydraulic capacity of the station and evaluate and identify any hydraulic deficiencies that may possibly restrict peak pumping capacity. A desktop modeling effort and a physical model study of the wetwell confirmed that the existing pumps, are inadequate to pump the permitted capacity of the injection wells. Final design includes replacement of the four existing pumps, installation of the two additional pumps and replacing the existing cone valves with ball valves and adding flow control valves.

Sawgrass WWTP, High Level Disinfection System, City of Sunrise, Florida

Project Manager. Engineer of Record for the facilities planning development of a for a 4-mgd AADF (expandable to 8-mgd AADF) High Level Disinfection Facility at the Sawgrass WWTP. The detailed design of the first phase is currently underway

Sawgrass WWTP Headworks Improvements City of Sunrise, Florida

Task Manager. Lead process mechanical designer for the yard piping reconfiguration to provide a bypass to the facility's pretreatment structure and splitter box as well as for the new Bio-trickling Filter odor control system.

South District Water Reclamation Plant, Miami-Dade Water and Sewer Department, Homestead, Florida

Design Manager. Lead mechanical designer for the preliminary and detailed design of the Ultraviolet Advanced Oxidation System, an intermediary pumping station, and several other ancillary systems for the South District Water Reclamation Plant which treats tertiary effluent for indirect recharge of the Biscayne Aquifer. This is one of a handful of such facilities in the world and the first in the Southeastern US. The project is currently ongoing.

Renew and Replacement Assessment for the North District Wastewater Treatment Plant, Miami-Dade County Water and Sewer Department, Florida

Task Leader. Task leader for the plant-wide assessment of all of the mechanical equipment at the North District Wastewater Treatment Plant. Task included the inspection of most of the plant's mechanical equipment to develop a long term renew and replacement program. This was part of a larger report which detailed the needs plant renew and replacement needs for the next ten-year period.

Big Coppitt Wastewater Treatment Plant, Florida Keys Aqueduct Authority, Big Coppitt, Florida

Design Manager. Lead mechanical designer for the development and design of the sequencing batch reactors, filtration, disinfection and solids handling system/processes for a 0.425 greenfield Plant. Other task included permitting and technology evaluation. The plant's process must meet stringent Advanced Wastewater Treatment standards under very difficult influent loading conditions.

Wastewater Facilities Master Plan, Miami-Dade Water and Sewer Department, Miami-Dade County, Florida

Project Engineer. Assisted project team for expansion facility plans for two regional wastewater treatment plants for a 25-year planning horizon. Task included flow projections based on county water billings and population projections, existing plant capacity analyses, and alternatives for process unit expansion to increase peak wet weather capacity.

North District Wastewater Treatment Plant Secondary Clarifier Stress Testing, Miami-Dade County Water and Sewer Department, Florida

Field Engineer. Responsible for the on-site testing and sample gathering in order to evaluate the capacity of the Secondary Clarifier System of the North District Wastewater Treatment Plant.

Construction Management

Military Trail Utility Relocation, West Palm Beach Florida

Field Engineer. Supervised numerous water and wastewater main relocations as part of the improvements along Military Trail in Palm Beach County.

David F. Crawford, RA, LEED AP, ENV SP

Experience Summary

David F. Crawford is a licensed architect offering more than 36 years of experience performing architectural project planning and design for water and wastewater treatment facilities, laboratories, maintenance facilities, pumping stations, transfer stations and environmental awareness centers. As a LEED Accredited Professional and Envision Sustainability Professional, he regularly conducts building project programming, building code analysis, condition assessments, and architectural QA/QC project reviews.

Assignment

Technical Advisor-Architecture

Education

BS Architecture, The Catholic University of America, 1983

Registration

Registered Architect: AZ, CO, NY, PA, VA, UT

LEED Accredited Professional

Envision Sustainability Professional

Experience

36 years

Joined Firm

2017

Relevant Expertise

- *Programming*
- *Design*
- *Building & Energy Code Analysis*
- *Condition Assessments*
- *Renovations / Restorations*
- *QA / QC*
- *Constructability Reviews*
- *Construction Oversight*

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North Pleasant Valley Groundwater Desalter, City of Camarillo, California

Code Evaluation Assistance. BC is designing a new, greenfield groundwater desalter facility to maximize local groundwater resources and reduce reliance on imported water supplies. Under Phase I, the desalter facility is being designed to treat 4,500-acre feet per year of brackish groundwater to potable water standards and master planned to treat 9,000-acre feet per year under Phase II. The new facility will include all utilities, structures, and mechanical processes to remove salinity, as well as other secondary contaminants of concern from two wells to produce high quality water for the City's drinking water distribution supply system. David provided code evaluation services for the chemical storage area of the new desalter facility.

Hyperion Water Reclamation Plant Advanced Water Purification Facility Design-Build, City of Los Angeles, Department of Public Works, Bureau of Sanitation (LASAN), California

Lead Architect. As a member of the Walsh Design-Build, BC is responsible for designing the new advanced water purification facility to treat primary effluent from the Hyperion Water Reclamation Plant to nitrified-denitrified recycled water for reuse. To-date, David has provided conceptual design for the new advanced water purification facility. He will start the full design in May 2020. This new AWPF will provide approximately 1.5 mgd (5 mgd ultimate) of purified water to Los Angeles World Airports, internal Hyperion Water Reclamation Plant uses, and potential supply to the neighboring Scattergood plant.

Mount Vernon Booster Pump Station (BPS), California American Water Company (Cal-Am), Los Angeles County, California

Lead Architect. BC helped California American Water from preliminary design to 100 percent design with the replacement of three existing pumps, retiring the existing hydropneumatic tank, and providing VFDs for all pumps. BC provided an evaluation between different layouts and types of pumps to recommend the most feasible type of pump, configuration and control strategy in a basis of design report. David provided architectural oversight for the design of the renovation and alteration of the existing BPS.

Well 226 Design, City of Modesto, California

Lead Architect. In 2010, BC prepared bid documents for the design of a replacement water well, Well 226, in northwest Modesto. The City retained BC in 2016 to design a supply well to replace a recently decommissioned well. BC prepared well drilling construction documents and is currently preparing well equipping construction documents. David led the design for the new 1,500 square foot well house.

BPS Improvements, City of Antioch, California

Lead Architect. BC is designing improvements for two of the City of Antioch's potable water booster pumping stations. The first, Hillcrest BPS, requires

replacement of existing pumps, electrical and communications equipment, and structural improvements to the building. The second, Donlon BPS, is in much better condition, and improvements will include addition of a new pump and improvements to the building's structure. David provided architectural design and detailing for roof renovations of the existing BPS' building structure.

Recycling and Resource Center, Montgomery County, Dayton, Ohio

Architect-in Charge and Project Manager. Responsible for the design of a 7,500-square foot, two-story Recycling and Resource Education Center (RREC). The RREC was designed to replace the existing educational center that was plagued by water infiltration, odor, and vermin. The proposed Center is sited between the existing Transfer Station to the east and the Tipping Floor to the south. The floor plan was symmetrically designed so that the reception/lobby area is the focal point of the building on the first floor, and the education center is the focal point on the second floor. These focal points are linked by three independent vertical cores, two stair towers flanking each side of the building, and an elevator core centered in the building. The Recycling and Resource Education Center is targeting a LEED Silver Certification.

Administration and Training Building, City of Tavares, Tavares, Florida

Architect in Charge. Design of a 6,500-square foot single story Administration and Training Building for the City of Tavares. The floor plan was symmetrically designed so that the reception/lobby area and the training/conference room are the focal point of the building. The reception/lobby area is surrounded by offices. The central core of the building is equally flanked on both sides—the personnel spaces are housed on the left side of the building and the public spaces are housed on the right side of the building. The Administration and Training Building achieved LEED certification.

Rector Rooms and Chemical Storage Buildings, CoorsTek, Inc., Gumi, South Korea

Code Expert. The CoorsTek Facility was expanding their production area to accommodate additional process equipment. Chemicals used to support the process are stored in two detached storage buildings located onsite near the process area and are piped to the equipment through stainless steel piping. An assessment of each of the chemicals being stored was performed to establish the use and occupancy classification of each storage building. The quantities of chemicals utilized in the closed-loop process were also evaluated to establish the use and occupancy classification of the process area. Based on the occupancy classifications, recommendations were generated to outline the modifications that would be required for each of the existing areas.

Groundwater Treatment Facility, Confidential Client, Bayonne, New Jersey

Code Expert. This Groundwater Treatment Facility was utilizing Sulfuric Acid, Sodium Hydroxide, Polymer and Granular Activated Carbon in the process. The maximum allowable quantities of the chemicals were assessed to determine the use and occupancy classification of the building. Based on the assessment, recommendations were developed to segregate the hazardous chemicals and minimize the high hazard spaces within the building.

Georgetown Reservoir Building Improvements, Washington Aqueduct, USACE Baltimore District, Washington, DC

Architect-in-Charge. Provided design services for the historical renovation of buildings and structures at the Georgetown Reservoir. The renovations included: The Influent Gatehouse, constructed between 1864 and 1872; the Castle Gatehouse, constructed between 1899 and 1901 (designed to resemble USACE's insignia); Meig's Vault, constructed between 1862 and 1864; the West Shaft Gatehouse constructed in 1901; and the Circular Platform. The scope of the renovations included repointing and replacement of the existing brick, replacement and repair of the existing stucco, doors and windows, the existing roofs, and electrical and HVAC upgrades. All work was done in association with The Standards and Guidelines for the Treatment of Historic Properties.

Experience Summary

Jorge A. Jaramillo joined Brown and Caldwell in 2017 and works primarily from the West Palm Beach office. Mr. Jaramillo has over 35 years of technical, project management, and construction management experience. This includes, public and private sectors experience in the planning, design and construction of Civil, Environmental, Water Resources, Water Utilities, Public Works and Capital Improvements projects.

Assignment

Project Management Team

Education

M.S. Civil Engineering

Florida International University, 1989

B.S. Civil Engineering

Florida International University, 1984

Registration

Professional Engineer, PE 47746, State of Florida

Experience

35 years

Joined Firm

September 2017

Relevant Expertise

- *Planning, design and construction of Utilities and Water Resources projects.*
- *Technical Design*
- *Project Management*
- *Construction Management*
- *Permitting*
- *Preparing Budget & Schedules*

Water Treatment Plant No. 9, Palm Beach County Water Utilities (PBCWUD), West Palm Beach, Florida

Project Manager/Construction Manager. Served as a liaison between PBCWUD and design consultant. Provided guidance and technical support during the planning, design and construction phases of this 20 MGD membrane softening water treatment plant located in Boca Raton, Florida. Construction cost $32 Million.

Water Treatment Plant No. 9, Palm Beach County Water Utilities, West Palm Beach, Florida

Project Manager/Construction Manager. Served as a liaison between PBCWUD and design consultant. Provided guidance and technical support during the design and construction of nine (9) water supply wells and pipeline, and the rehabilitation of eighteen (18) water supply wells to provide water supply to the Water Treatment Plant No. 9 located in Boca Raton, Florida. Construction cost $8 Million.

PBCWUD Customer Service Center, Palm Beach County Water Utilities, West Palm Beach, Florida

Project Manager. Served as a liaison between the County and the design consultant. I provided guidance and technical support to complete the design and construction of a 6,000 SF Customer Service Center facility in Boynton Beach, Florida. Construction cost $3.5 million.

PBCWUD 16 MGD Reclaimed Water Filter and Storage Expansion, Palm Beach County Water Utilities, West Palm Beach, Florida

Project Manager/Construction Manager. Provided guidance and technical support during the design and construction of an additional filtration system, including 5 MGD Storage Tank and associated piping at the Southern Region Water Reclamation Facility located in Boynton Beach, Florida. Construction cost $7 Million.

Biscayne Bay Coastal Wetlands, Phase 1, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Project Manager/Construction Manager. Led the planning, design and construction of this Comprehensive Everglades Restoration Program (CERP) project that provides for the construction of flow-way systems, including pump stations, conveyance and spreader canal systems that are used to redistribute freshwater flows, rehydrate coastal wetlands, improve salinity levels and restore shoreline habitat. During the planning phase, led the Project Development Team (PDT) in the development of the CERP Project Management Plan (PMP) and subsequently led the PDT in the preparation of the Project Implementation Report (PIR). As part of the Acceler8 Program (expedited projects) served as a liaison between the SFWMD and the design consultant and led the project to the completion of design and construction

phases. The construction cost for the Deering Estate Flow-way and four (4) culverts along the L-31E Flow-way was $4.5 Million.

C-111 Spreader Canal, Phase 1, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Project Manager. Led the planning and design of this CERP Environmental Restoration Project that provides for the construction of two pump stations, conveyance canals, inlet canals, water detention areas, plugging of canals, and removal of existing infrastructure. The project increases water flows to Taylor Slough and improves quantity, quality, timing and distribution of freshwater flows to Manatee Bay and Florida Bay. During the planning phase, led the PDT in the development of the CERP Project Management Plan (PMP) and subsequently the PDT in the preparation of the Project Implementation Report (PIR). Thereafter, as part of the Acceler8 Program (expedited projects) served as a liaison between the SFWMD and the design consultant and led the project to the completion of design drawings and specifications. Construction cost $17 Million.

Acme Basin B, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Project Manager. Led the project and served as a liaison with the Village of Wellington during the design and construction of the Section 24 Impoundment. This project provides for the design and construction of a system that re-routes storm water runoff from the Acme Basin B Basin, which is in the Village of Wellington, to the Section 24 Impoundment and subsequently to the Storm Treatment Area 1 East for treatment to improve water quality before discharging into the Arthur R. Marshall Loxahatchee National Wildlife Refuge (also known as Water Conservation Area No. 1). Total project cost (design and construction) was $21 Million.

Pump Station S-331 and Command and Control Center, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Construction Manager. Special assignment to complete the project closeout phase and coordination with the US Army Corp of Engineers and Contractor during the Operational, Functional and Endurance tests which were required by SFWMD for final acceptance of the project. The project was in southern Miami Dade County. At the completion of the project, prepared written recommendation to upper management for final acceptance of the project.

C-4 Canal Flood Mitigation, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Project Manager. Provided guidance and support to the project team during the design and construction phases of the project. The project provides for the design and construction of canal bank improvements to enhance flood control and protection to communities in western Miami Dade County. Served as a liaison with local Municipalities and Miami Dade County to resolve issues associated with the project. Conducted bilingual presentations at Public Meetings related to the planning, design and construction of the project. Assisted the construction manager during the construction phase of the project. The total construction cost was $8 Million.

O&M Capital Projects, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Section Lead. Section Lead responsible for overseeing the planning, design and construction of over 40 projects assigned to the Section that were part of the O&M Capital Program. This included providing guidance and support to make certain that projects assigned to the Section were completed within budget and schedule.

J.W. Corbett Levee, Phase 1, South Florida Water Management District (SFWMD), West Palm Beach, Florida

Project/Construction Manager. Provided guidance and support to the project team during the planning, design and construction phases of the project. This project provides for the design and construction of a 5.7 miles levee to provide flood protection to the residents of the Acreage in Palm Beach County. Served as a liaison with Palm Beach County, Fish and Wildlife Commission and Indian Trail Improvement District to resolve and coordinate issues associated with the planning, design and construction of the project. The total construction cost was $4 Million.

Mauricio L. Lara, MBA, PE, PMP

Experience Summary

Mauricio Lara has over 21 years of experience primarily relating to planning and execution of major water resources, water/wastewater and utilities infrastructure projects for the public sector. Mauricio has been involved in different stages of design, permitting, and construction from small to major size projects. He has participated in major water resources restoration projects involving high size pumps, multiple control structures, levees and canals. He has also led mission critical flood control structure inspection programs and took part of multimillion dollar capital improvement planning and execution for water resources, water and wastewater infrastructure initiatives. He has served as project engineer, project manager and program manager on numerous projects located throughout South Florida.

Assignment

Project Management Team

Education

Project Management Professional (PMP)

Project Management Institute, 2010

Master of Business Administration (MBA)

Nova Southeastern University

B.S. – Civil Engineering

EAFIT University

Registration

Florida PE No. 69929

Experience

21 years

Joined Firm

April 2017

Relevant Expertise

- *Public Sector*
- *Water*
- *Wastewater*
- *Water Resources Restoration*
- *Utilities*
- *Project Management*
- *Certifications:*

Certifications:

Executive Project Management Certificate, Florida Atlantic University, 2010

Project Management Professional (PMP), No. 691289, Project Management Institute, 2010

40-Hour OSHA Hazardous Waste Operations and Emergency Response, No. 102512, 2008

10-Hour OSHA Training, No. 000333093, 2005

Structure Inspection Program (SIP), South Florida Water Management District, West Palm Beach, Florida

Program Manager. In this government employee role, led the $2-million annual Structure Inspection Program (SIP) that involved systematic inspections of underwater and above-water project structures (incl. 570 water control structures, 62 pump stations, and 1,969 miles of canals/levees). Planned inspections, prioritized and managed repair projects, validated inspection submittals, and introduced best practices. Reduced SIP costs through analyzing level of complexity for each structure and allocating resources based on needs. Decreased expenses through effective allocation strategies.

Structure Inspection Program (SIP), South Florida Water Management District, West Palm Beach, Florida

Lead Engineer. In this government employee role, determined needs, analyzed resources, and defined criteria for engineering projects with multimillion-dollar value (e.g. canals, pump stations, facilities, bridges, numerous others). Oversaw the full cycle of projects. Assisted in developing $50-million, 5-year Capital Improvement Plan that involved compilation and presentation of comprehensive operations, financial, and engineering data on over 250 projects. Prioritized and launched $80-million plus of successful capital projects. Created highly detailed Project Definition Reports to facilitate project progress and achievement of goals.

Environmental Services Department Utilities, City of Delray Beach, Florida

Assistant Director. In this government employee role, assisted in the direction and coordination of daily activities within Environmental Services, including Public Utilities, Engineering & Project Management, Construction, Water/Sewer Network, Utility Maintenance, and others. Contributed to short-term and long-term planning on the $26-million Capital Improvement Plan (CIP).

Water Main and FM Rerouting Design, City of West Palm Beach Utilities Department, West Palm Beach, Florida

Project Manager. Project consisted of providing engineering services for the design and bidding assistance of a project with two components: the connection of the 8-inch Ductile Iron Pipe (DIP) Water Main (WSP28993) to the 42-inch DIP Transmission Water Main Line (WSP25671, WSP29646) located on the intersection of Clearwater Drive and Banyan Boulevard that supplies water to the south area of the City's Water Treatment Plant (WTP); and the Force Main SFM0187 Re-Routing of an existing 10-in force main (SFM0187; approximately 2,215 linear feet) located east of I-95 on a portion of Merrill Avenue and right-of-way land between Belvedere Road and Hampton Road.

LS 127 Modeling Ibis Basin Force Main Network, City of West Palm Beach Utilities Department, West Palm Beach, Florida

Project Manager. Project consisted of performing a hydraulic modeling analysis on the Ibis Network to quantify system operations and enable the City to identify, characterize, and address hydraulic system deficiencies. In addition, the results obtained from the hydraulic modeling analysis help the City to select appropriate pumps for the LS 127 upgrade/rehabilitation.

Banyan Clearwater 12-inch Interconnect Construction Administration Services, City of West Palm Beach Utilities Department, West Palm Beach, Florida

Project Manager. Perform Construction Administration Services (CAS) for the connection of the 8-inch Ductile Iron Pipe (DIP) Water Main (WSP28993) to the 42-inch DIP Transmission Water Main Line (WSP25671, WSP29646) located on the intersection of Clearwater Drive and Banyan Boulevard that supplies water to the south area of the City's Water Treatment Plant (WTP). The 8-inch DIP connection was performed using Horizontal Directional Drilling (HDD).

Improvements to Lift Stations 117 and 307 Design and Bidding Services, City of Sunrise Utilities Department, City of Sunrise Utilities Department, Florida

Project Manager. Served as project manager for the Construction Administration Services for the conversion of the existing Lift Stations 117 and 307 from wet pit/dry pit lift stations to submersible pump stations, and to update the overall condition of each of the two sites associated with this work.

Lift Stations 52 and 53 Rehabilitation, City of West Palm Beach Utilities Department, West Palm Beach, Florida

Project Manager. Project consisted of providing engineering services for the design and bidding assistance for the conversion of the existing Lift Stations 52 and 53 from wet pit/dry pit lift stations to submersible pump stations. The Lift Station 53 component of the project included full design and bidding assistance and for Lift Station 52 included the production of a Basis of Design Report (BODR) for the future relocation of the lift station.

Lift Station 114, 123, 125, 132 and 148 Rehabilitation Construction Administration Services, City of Sunrise Utilities Department, Florida

Project Manager. Served as project manager for the Construction Administration Services for the conversion of the existing Lift Stations 114, 123, 125, 132 and 148 from wet pit/dry pit lift stations to submersible pump stations, and to update the overall condition of each of the two sites associated with this work.

Lake Boynton States Utility Improvement, City of Boynton Beach Utilities Department, City of Boynton Beach, Florida

Project Engineer. Led the field work, data gathering, and design of utility improvements including water, sewer, and storm infrastructure. Assisted in the evaluation of possible improvements in the system.

WaterWorks 2011 - Water and Wastewater Capital Improvements Program, City of Ft. Lauderdale Utilities Department, City of Ft. Lauderdale, Florida

Project Engineer. Participated in design and construction management activities of this $750-million program including rehabilitation and construction phase services for pump stations, large water mains, wastewater force mains and gravity sewer projects. Analyzed and reported results of infiltration and inflow (I&I) monitoring used in generating contracts and SOW for approximately 7.5 miles of sanitary sewer. Assisted in managing project controls, budget, cost / system analysis and process improvement by administering the Program Control System (PCS). Led State Revolving Fund (SRF) program to construct wastewater and stormwater treatment projects.

Cotleur & Hearing

Nicole Plunkett, PLA, ASLA
Landscape Architect / Partner
10 Years of Experience
561.747.6336 x113
E-Mail: nplunkett@cotleur-hearing.com
1934 Commerce Lane, Suite 1, Jupiter, FL 33458

Education

2010: The University of Florida – Magna Cum Laude
Bachelor of Landscape Architecture
Minor of Environmental Studies

Professional Experience

- Project management and design on a variety of projects including commercial, mixed-use, planned unit developments (PUD), golf course communities, single and multi-family residential communities, medical, institutional, and industrial projects throughout South Florida.
- Experience with leading project teams of designers, land planners, architects, engineers, and surveyors from the beginning of a project through final construction.
- Experience with public hearings, presentations, code enforcement, and correspondence with local municipality staff throughout South Florida.

Professional Affiliations

State of Florida Registered Landscape Architect #LA6667230
2019-Present: American Planning Association (APA) | Member
2017-Present: University of Florida Dept. of Landscape Architecture | Advisory Board Member
2015-Present: Future Landscape Architects of America (FLAA) | Founder
2014-Present: American Society of Landscape Architects (ASLA) | Member
2016-2017: Young Professionals of Palm Beach North Chamber of Commerce | Steering Council
2014-2016: Florida Chapter ASLA (ASLAFL) | Palm Beach / Treasure Coast Chair

Awards

2020 ASLA Florida Design Award - Frenchman's Reserve Country Club Preserve Restoration
2017 Exceptional Emerging Professional Award Recipient | FLASLA Fellows Committee
2017 Fellowship for Innovation + Leadership $25,000 Award Recipient | Landscape Architecture Foundation
2016 Distinguished Service Award Recipient | University of Florida Dept. of Landscape Architecture
2015 Award of Recognition Recipient | Florida Chapter of ASLA (FLASLA

Work History

2010- Present: Landscape Architect; Cotleur & Hearing

Notable Projects

Municipal

Sandhill Crane Golf Club, Palm Beach Gardens, FL— City of Palm Beach Gardens
Reference: Charlie Sisca (Sisca Construction Services, LLC), 561-228-7505
Sandhill Crane Municipal Golf Course is located on the north side of Northlake Boulevard approximately four miles west of Beeline Highway. Cotleur & Hearing was retained to assist with the development and design of a new clubhouse facility. Ms. Plunkett worked with the Sisca Construction team, REG Architects, and the City of Palm Beach Gardens staff to push the project to approval. The project was completed in 2017.

Municipal

Riviera Beach Fire Station #2, Riviera Beach, FL— City of Riviera Beach

Reference: Manuel Ayala (REG Architects), 561-659-2383

Cotleur & Hearing was retained to lead the site plan amendment approval for a new 12,490 SF Fire Station for the City of Riviera Beach. The new fire station will replace the old one which no longer meets the needs to the fire department. Ms. Plunkett managed the project from the conceptual phase and coordinated the consultant team. Cotleur & Hearing worked with REG Architects to create a final plan with site, landscape, and architecture. Additionally, she met with city staff through the design phase and represented the city at public hearings. The project was approved in 2019.

Institutional

Florida Atlantic University (FAU) Jupiter and Boca Raton Campus, FL — Florida Atlantic University

Reference: Juana Gomez (KSQ Design), 918-519-7974

Cotleur & Hearing was retained by FAU to assist with the site design and landscape design of additional student residence buildings on both the Jupiter campus and the Boca Raton Campus. Ms. Plunkett coordinated with the consulting team and KSQ Design to address design needs and to meet project deadlines. The new housing facilities are currently in the construction development phase and construction will start shortly.

Environmental

Frenchman's Reserve Country Club, Palm Beach Gardens, FL – Frenchman's Reserve Country Club, Inc.

Reference: Paul Mroz, 561-630-0333

Cotleur & Hearing was retained to assist with the site plan approval for clubhouse renovations, a new short course, and enhancements to preserve areas within the golf course. Frenchman's Reserve is located on the east side of Alternate A1A near Hood Rd. Due to the short course impacting the existing preserve, Ms. Plunkett conducted preserve analysis on-site and proposed locations for impacted preserve to be relocated throughout the community. The approval process with the City of Palm Beach Gardens included public hearings, resident meetings, and coordination with City Staff. The project won was completed in 2019 and won a 2020 ASLAFL Design Award.

Commercial

Northlake Gardens, Palm Beach Gardens— Deziel Company

Reference: Robert Deziel, 561-346-0105

Cotleur & Hearing was retained by the Deziel Company to develop a plan to amend the Banyan Tree Planned Unit Development (PUD) Phase II, located at the northeast and northwest corners of Northlake Boulevard and MacArthur Boulevard. The new plan consists of a mix of retail and restaurant uses along with outdoor seating, pedestrian corridors, and Art in Public Places. Ms. Plunkett took the project from initial concept to final construction. The site plan approval and Art in Public Places was led by Ms. Plunkett along with the construction of the first phase of development. Phase II will include a Daycare component and is nearing plan approval.

Medical

Margaret W. Niedland Breast Center at Jupiter Medical Center — Rendina Healthcare Real Estate

Reference: Jon Wainwright, 561-630-9684

Jupiter Medical Center's Margaret W. Niedland Breast Center was completed in the spring of 2015 and consists of a 26,500 square foot state of the art medical facility within the existing Jupiter Medical Park. Cotleur & Hearing was in charge of taking the project through its design phase, approvals, and into final completion. Ms. Plunkett was a key designer in developing the site plan and worked closely with the Town of Jupiter staff to work through tree mitigation and signage approvals.

Experience Summary

Mr. Augusti is a professional engineer and contractor with a proven track record of successfully completing projects safely, on time, and within budget. He specializes in water and wastewater treatment plant construction including pipeline and pump station elements, with significant experience in commercial and heavy civil construction projects.

As a General Contractor Mr. Augusti has a strong Project Management background in risk assessment, safety, constructability reviews, cost estimating and value engineering generation, scheduling, contract administration, quality control, change order management, and the execution of projects on-time and within budget.

As a seasoned project manager with both design and construction experience, Mr. Augusti possesses a demonstrated history of project planning, problem resolution, training, budgeting, and delivering high quality projects with zero lost time accidents. He has held roles which included contract administration, management of professional and technical staff responsible for design development and contract execution. He has also been recognized for his abilities in the areas of quality control, contract change order management, project scheduling, and consistent interpretation of contract documents.

Assignment

Project Delivery/Criteria Development

Education

M.S., Business Administration, St. Michaels College, Colchester, VT, 2001

B.S., Civil Engineering, Norwich University, Northfield, VT, 1996

Registration

Professional Engineer:

FL – 69011

DC – 907122

Certified General Contractor – FL 1522054

NCCER Certified Trainer

Experience

25 years

Joined Firm

2019

Relevant Expertise

- *Design Build Director/Leader*
- *Construction Management*
- *Engineering Inspections*
- *Civil Engineering Design*
- *Scheduling (P3, P6, Contract Manager)*
- *Estimating*
- *Quality Control*
- *Training*

Hialeah Reverse Osmosis Water Treatment Plant, Hialeah, Florida

On-site Construction Manager. Led the field efforts for this high-profile Design Build project. Responsibilities stretched from design reviews, document control, submittal tracking and expediting, to preparing RFI responses, coordinating and tracking all material testing to developing startup and acceptance testing procedures and carrying out liaison duties with owner's representatives and design staff. The role also included field inspection of all parts of this project for compliance with contract and building code standards, preparing and tracking deficiency logs, and developing and implementing corrective action strategies for non-compliant work. Held frequent formal and informal pre-task meetings with contractors and subcontractors to ensure a smooth construction process is achieved.

Altamonte Springs Water Treatment Plant II, Altamonte Springs, Florida

Project Manager. Managed the work in both the role of superintendent in the field and project manager. Total financial control of projects from the initial schedule of values, progress billings and project financial forecasts in monthly position reporting. Full responsibility for all efforts from purchase orders and subcontract negotiations, scheduling, estimating and coordination of projects with owners and design engineers. Implemented multiple value engineering and ODP initiatives providing significant savings to the client.

Markham Regional Water Treatment Plant, Phase IIA, Sanford, Florida

Project Manager. Managed the work in both the role of superintendent in the field and project manager. Total financial control of projects from the initial schedule of values, progress billings and project financial forecasts in monthly position reporting. Full responsibility for all efforts from purchase orders and subcontract negotiations, scheduling, estimating and coordination of projects with owners and design engineers. Implemented multiple value engineering and ODP initiatives providing significant savings to the client.

Ozone Treatment Facility, Fairfax County, Virginia

Project Engineer. Provided oversight of all submittal coordination, schedule assembly and maintenance, O&M assembly and review, spare parts collection and turnover, startup coordination, as-built drawing maintenance, engineering layout of all mechanical components, pipelines, structures, and critical tie points in the field. Sole responsibility for coordination of mechanical equipment which included Praxair Ozone Generators and accessories.

Tunnel Dewatering Pump Station and Enhanced Clarifier Facility, Blue Plains AWTP, DC Water, Washington, DC

Owner's Project Manager. Responsible for the completion of a 250 MGD pump station expandable to 500 MGD with enhanced clarification facilities. This project is the endpoint and discharge means for the entire DC Clean Rivers Tunneling program, valued at over US $ 2 Billion. Responsibilities include daily management of project staff, monitoring schedule, progress, reviewing requests for payment, evaluating Consultant and Contractor requests for contractual changes, coordinating efforts and resolving issues between internal and external stakeholders, preparing contract correspondence, and rendering accurate and timely contract-based decisions to enable the project to proceed.

Point Pump Station, DC Water Clean River's Project, DC Water, Washington, DC

Resident Engineer. Participated in initial negotiations and was instrumental in resolving disagreement among parties on contractual interpretation. Established and maintained positive working relationships with DC Water Stakeholders and EE Cruz Management. Provided oversight of all field activities, managed field inspectors, document control staff, subcontractors, and administered contract correspondence, submittal coordination, contract changes, document control, change negotiations and approval of Contractor pay requests. With the project representative, regularly reported status directly to the Director of DC Clean Rivers Project Director.

Blue Plains AWTP Construction Management, DC Water, Washington, DC

Senior Construction Manager. Assigned to the administration of the Blue Plains Construction Management team. Supported execution of Construction Management contract with DC Water. Responsibilities included: site supervision, review and coordination of major shutdown requests, development and execution of commissioning plans, schedule and payment reviews, change order negotiation, administration of contractual changes, as well as the assumption of various Resident Engineering roles when the need arose. Involved in problem resolution for priority items and was on call for any required response associated with the ongoing construction activities.

Nassau County Regional Membrane Reuse Facility, Yulee, Florida

Project Manager. Led the Design-Build construction team to completion of a challenging project. Managed the work in both the role of superintendent in the field and project manager. The project featured a first of its kind use of plate membrane technology. Full responsibility for all efforts from purchase orders and subcontract negotiations, scheduling, estimating and coordination of efforts with owners and design engineers. Assumed total financial and material control of the in-process project and successfully closed the job.

Yankee Lake Rerating, Seminole County, Florida

Project and Client Construction Manager. Responsible for overseeing professional services in connection with a phased rerating of Seminole County's Yankee Lake Water Reclamation Facility (WRF). Phase I will add 0.5 to 1.0-mgd of capacity with minimal capital improvements. Phase I also includes design of a biosolids dewatering building. Phase II will increase capacity to 5.0-mgd.

Canal Street WWTP, Leesburg, Florida

Project Manager. Responsible for the closeout of the construction phase services for major upgrades to this 3.5-mgd facility. The project included design and construction of modifications to the preliminary treatment structure with the addition of odor control systems; influent pump station; activated sludge aeration system increased secondary clarifier capacity; new intermediate pump station, new tertiary cloth media filters; new chlorine contact tanks; new effluent transfer pump station; new reclaimed water ground storage tank and distribution pump station; replacement of the gas chlorine system with a new bulk hypochlorite system; plant wide SCADA and electrical improvements; and miscellaneous site improvements throughout the facility.

Experience Summary

Reinhard Ruhmke is a Professional Geologist in the States of California, North Carolina and South Carolina with more than 30 years of experience investigating and remediating sites contaminated with fuel hydrocarbons, chlorinated hydrocarbons, metals, pesticides and PCBs. He has developed and implemented technical strategies as part of the Resource Conservation and Recovery Act (RCRA) and non-RCRA site closures, and has designed or managed a wide range of remediation programs for subsurface contamination. Remediation programs associated with subsurface contamination implemented or managed by Mr. Ruhmke include soil excavation, in-situ vacuum extraction and bioremediation of soil, ex-situ vapor extraction, ex-situ bioremediation, groundwater pump-and-treatment by carbon adsorption and air stripping, air sparging of groundwater, molasses injection and monitored natural attenuation. He has also participated in soil and groundwater investigations for existing and potential Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and Brownfield sites. Mr. Ruhmke has also been involved with hydrogeologic studies associated with open and closed landfills.

Assignment

Environmental Assessment

Education

B.S., Geology, San Diego State University, San Diego, California, 1988

Registration

Professional Geologist #2469, South Carolina, 2007

Professional Geologist #2085, North Carolina, 2007

Professional Geologist #6910, California, 1999

Certified Hydrogeologist #674, California, 1999

Experience

30 years

Joined Firm

2001

Relevant Expertise

- *Hydrocarbon Site Investigations and Remediation*
- *RWQCB and DTSC Negotiations and Site Closures*
- *Project Manager and Client Advocate for Various Types of Sites and Industries*
- *Soil and Groundwater Investigations for Existing and Potential CERCLA Sites*
- *RCRA Corrective Action Program Management*
- *Soil and Groundwater Remediation Programs*

Confidential Client, Investigation and Remediation of 1,4-Dioxane, Florida

Program Manager. Site had a release of chlorinated solvents and 1,4-Dioxane (14DX) to groundwater which contaminated a well field operated by a nearby municipality. Investigated the release under FDEP oversight while concurrently constructing a 14DX groundwater treatment facility at the municipality's water treatment plant capable of treating water up to 10MGD. This work is ongoing.

Confidential Client, Remediation of a closed oil field, California

Project Manager. Managing remediation of a former oil field covering over 1200 acres of undeveloped land as part of a Settlement Agreement between the former oil field operators and the property owner. The property owner identified over 300 areas where remediation is required before they can begin developing the property. Worked with the property owner and the small PRP group that included former oil field operators to remediate petroleum hydrocarbons to a level where the property could be developed for multi-use. Remedy included excavation and off-site disposal of over 200,000 cubic yards of soil.

Confidential Client, Remediation of Chlorinated Solvent Chemical Recycling Plant, Santa Ana, California

Project Manager. Managed Corrective Measures Study (CMS)/ Corrective Measures Implementation (CMI) project for remediation of chlorinated solvent chemical recycling plant. Site had highly contaminated soil (up to 11,000 ppm of trichloroethylene [TCE]) and dense non-aqueous phase liquid (DNAPL), and contaminated groundwater in multiple water-bearing zones. Soil generally had low permeability, high moisture content and was extremely heterogeneous throughout half-acre site. Pilot tests performed with mixed results for vapor extraction, permeability enhancement by hydraulic fracturing and soil washing. Human health risk assessment with remediation goals also performed. Remedial options evaluated and dual phase extraction system installed.

Confidential Client, Remediation of Chlorinated Solvent Release, Gardena, California

Project Manager. Managed fast-track project for remediation of soil contaminated with chlorinated solvents. Property had been sold and new owner wanted to redevelop property quickly. Project team, including regulatory

agency, worked effectively in remediating property so that owner would not lose funding. Soil remediated using vapor extraction technology. Human health risk assessment with cleanup goals also performed. In addition, groundwater contamination present beneath site. Several off-site investigations performed to identify off-site parties potentially responsible for contaminated groundwater migrating beneath site.

Confidential Client, Excavation and Off-Site Disposal of Lead Contaminated Soil, California

Project Manager. Managed excavation and off-site disposal of 5,000 yds3 of lead-contaminated soil at former battery recycling facility. Designed and implemented remediation plan that focused on directing money to cleanup—not just investigation—and allowed client to stay within state-guaranteed Brownfields funding limits. When completed, project became first successful Cleanup Loan and Environmental Assistance to Neighborhoods project in California. By using cost-effective (i.e., XRF) approach of confirming lateral and vertical extent of lead and other metals contamination while concurrent excavation and soil removal took place, strict cleanup standards were met, allowing property to be sold for beneficial redevelopment as single-family residences. Sophisticated statistical analysis used to verify when cleanup goals achieved. In addition, use of statistical analysis saved significant disposal costs. Using Bootstrap statistical method in conjunction with limited soil stockpile sampling, several soil stockpiles were characterized as California hazardous waste rather than RCRA hazardous waste and were removed from site and disposed of at greatly reduced cost.

Confidential Client, Excavation and Aboveground Treatment of Diesel-Contaminated Soil, California

Project Manager. Managed excavation and aboveground treatment of 3,000 yd3 of diesel-contaminated soil. Incorporated diesel-contaminated soil into on-site soil treatment unit using asphalt incorporation. Through use of remedial technology, paved 1 acre of facility, previously covered with dirt, which increased efficiency of truck traffic around facility. Since paving was deemed asset, client deducted remediation cost as tax expense.

Confidential Client, Chemical Oxidation of Jet Fuel-Contaminated Soil, California

Project Manager. Managed injection of chemical oxidant into shallow soil to remediate jet fuel-contaminated soil originating from tanker accident that spilled jet fuel into concrete storm channel. Oxidant reduced hydrocarbon concentrations to levels not considered by local health agency as threatening to environment, thus site closure obtained. Through use of remedial technology, client saved considerable engineering and remediation costs since State DOT requested 1,200 feet of concrete culvert removed, contaminated soil removed, and culvert replaced.

Pilot Demonstration, Vandenberg Air Force Base, Santa Barbara County, California

Task Manager. Responsible for two pilot demonstration projects for remediation of chlorinated solvents in groundwater by injecting molasses and nanoscale iron. Scope of work included injection well installation, calculating aquifer parameters, injection of materials and process monitoring.

Sewer Right-of-Way, Virginia

Project Geologist. Site investigation work related to a proposed sewer line installation adjacent to a former Manufactured Gas Plant (MGP). Soil and groundwater samples were collected and analyzed for the constituents of concern to determine if residual soil and groundwater contamination from the MGP had migrated beneath the sewer right-of-way. Aquifer analysis was conducted to determine if dewatering during construction would capture the contaminated groundwater beneath the MGP.

UST Investigation, Virginia

Project Geologist. Site investigation work related to a former underground storage tank (UST) identified during sewer pump station upgrade activities. Soil and groundwater samples were collected and analyzed for the constituents of concern to determine for the presence of residual soil and groundwater contamination from the former UST. In order to keep the project on schedule, soil remediation was proposed as part of construction activities and a Soil and Groundwater Management Plan was prepared to manage any contaminated soil or groundwater encountered during construction activities. Ultimately the former UST site was closed by the VDEQ.

Experience Summary

Dr. Celia Earle is a degreed environmental engineer, environmental chemist, and microbiologist, and thus has a unique profile in the environmental arena. She has a breadth of knowledge and experience that includes planning, design, and construction administration for water, wastewater and reclaimed water systems, non-revenue water reduction and management, energy efficiency assessments, condition assessments, compliance assessments, program management, design-build delivery and various feasibility studies and investigations. She has consistently served as the firm's client service manager for the City of Hollywood, as well as the project manager for the City of Hollywood projects including water treatment plant expansions, buried infrastructure. ocean outfall-related studies, master planning, and water supply planning,

Assignment

Utility Systems & Consulting/Community Development/Funding Support/AWIA/Compliance

Education

BS Environmental Engineering University of Florida

BS Microbiology & Cell Sciences University of Florida

MS Environmental Engineering University of Florida

PhD Environmental Chemistry University of Florida

Certifications

CSI-Certified Construction Documents Technologist (CDT)

Risk Assessment Methodology for Water (RAM-W^{SM})

Experience

25 years

Joined Firm

2011

Relevant Expertise

- *Drinking Water*
- *Reclaimed Water*
- *Infrastructure*
- *Master Plans*
- *Feasibility Studies*

Turnkey System for VOC Contamination in Production Wells, City of North Miami Beach, Florida

Project Manager responsible for the turnkey implementation of a system to remediate VOC contamination in three production wells. Air strippers were utilized and the system was so successful in removing the VOCs that the City implemented them on a permanent basis.

Filtration System Improvements for District 1A Water Treatment Plant, Broward County Water and Wastewater Services, Florida

Project Manager responsible for evaluation of existing filters, filter underdrain comparisons, investigation for implementation of air-assisted filter backwash, filtration media recommendations, and rehabilitation recommendations for structural and aesthetic defects in filter and clearwell walls.

Springtree Biscayne Aquifer Well Rehabilitation, City of Sunrise, FL

Project Manager for evaluation of the Springtree wellfield, to determine the approach to be used for increasing the wellfield's yield. This included well performance testing, development of a hydraulic model and basis of design report (BODR), and preparation of specifications for the acidization and testing of the wells. Project Cost: $265,000

3B and 3C 4-Log Evaluation Broward County Water and Wastewater Services' (BCWWS), Broward County, Florida

Project Manager responsible for the development of a conceptual-level analysis of specific alternatives for providing 4-log virus treatment at the 3B and 3C facilities; had previously developed this for the County's 3A facility. The 3B and 3C water storage and pumping facilities receive and distribute treated water from the City of Hollywood, which relies on compliance monitoring for ground water rule compliance. Each service area has a storage tank and high service pump station, and the 3C tank has permanent booster chlorination and ammoniation facilities. Each site is relatively constrained, with limited space available to perform breakpoint chlorination to achieve the required CT for virus reduction, with the 3B site being somewhat larger than the 3C site.

Nanofiltration Element Replacement Project, City of Hollywood, Florida

Project Manager responsible for the selection and installation of new nanofiltration membrane elements (14 mgd production capacity) at the City of Hollywood Water Treatment Plant. Project included development of water quality targets, selection of candidate membrane elements using manufacturers' software, design and operation of single-element pilot tests, preparation of contract documents, and construction administration services.

Potable Water Main Replacement Projects, City of Hollywood, Florida

Project Manager responsible for the design, permitting, and construction management services for water distribution system improvements for approximately 29,000 linear feet of new potable water main. This project

involved work within a busy Florida Department of Transportation (FDOT) right-of-way, advanced permitting requirements, complex maintenance of traffic (MOT) considerations, the use of trenchless construction methods such as horizontal directional drill (HDD), and work with existing large diameter pre-stressed concrete cylinder pipe (PCCP). A second project that is in process involves the surveying, geotechnical investigations, design, permitting, bidding, and limited construction administration services for the replacement of approximately 60,500 linear feet of water mains. Included is the replacement of all water mains located within the Hollywood Boulevard right-of-way including FDOT permit applications for Roadway Right-of-Way construction. It also includes the design of five horizontal directional drills (HDDs).

Design of Potable Water Pipes at Canal Crossings, City of Pompano Beach, Florida

Project Manager responsible for project management, data collection, preparation of contract documents, permits, engineer's opinion of probable construction cost, and bidding support.

Twin Lakes Neighborhood Improvements, Broward County Water and Wastewater Services, Broward County, Florida

Project Manager responsible for the development of contract documents for the Twin Lakes Neighborhood. This included sewer, stormwater, sidewalks, landscaping; everything except for water, which is handled by another City. This also included permitting services.

Broadview Estates Sanitary Sewer System Design, Broward County Water and Wastewater Services, Florida

Project Manager responsible for the development of sanitary sewer design and permitting for Broadview Estates that was to be a part of a complete bid package. Water portion was done by County.

Wastewater Flow Transmission Project, City of Miramar, Florida

Project Manager responsible for development of contract documents for approximately 29,000 feet of 24-inch to 30-inch force main in the City. Duties include design, specification preparation, permitting, bidding assistance, and construction administration.

West Water Treatment Plant Expansion, City of Miramar, Florida

Project Manager responsible for development of the BODR, detailed design, bidding services, and construction services for expansion of the West Water Treatment Plant. This expansion involved design and installation of Floridan Aquifer wells, and design and implementation of a 2.5 mgd reverse osmosis system.

Alternative Water Supply Master Plan, Broward County Water and Wastewater Services, Florida

Project Manager for development of a scenario-based alternative water supply master plan for the County. This included development of water demand forecasts, needs estimation, development of various scenarios based on specific criteria, assessment of alternative water supply sources, evaluation/development of potential regionalization options, and mapping of the alternatives via a “what-if-then” model.

Design for District 2 Wells 8 and 9, Broward County Water and Wastewater Services, Florida

Project Manager responsible for the development of contract documents for the replacement of wells 8 and 9. This also included design of monitoring wells, permitting services, and bidding services.

Reverse Osmosis System Expansion: Trains C and D, City of Hollywood, Hollywood, Florida

Project Manager responsible for the design and construction administration services for two new 2.0 mgd capacity brackish water RO trains at the City of Hollywood water treatment plant.

Ocean Outfall Legislation – Reuse Compliance Strategy, City of Hollywood, Florida

Project Manager responsible for the development of an integrated Ocean Outfall Legislation strategy that has resulted in agreement on a feasible reclaimed water compliance approach that maximizes the use of effluent that is not impacted by brackish groundwater influences, as well as leverages contracted reuse opportunities. Brown and Caldwell, working in concert with the City and FDEP, resulted in the elimination of the aquifer recharge element of the original plan. In addition, the actual reuse to be implemented was limited to only the amount determined to be technically, environmentally and economically feasible. This is significant as the City has now realized an estimated cost savings of approximately $200 Million from its baseline plan of approximately $300 Million.

Mark S. Drummond, P.E., BCEE

President

Education

B.S. – Civil Engineering, Florida International University, 1996 (Minor in International Relations)

Registration

Professional Engineer: Florida (License No: 57428)

Professional Engineer: Jamaica (Registration No: PE/01/0583)

Certified NASSCO PACP, MACP, LACP

Certified SAVE VMA

Mark Drummond is a civil / environmental engineer experienced in water and wastewater treatment process design, water distribution systems, wastewater collection and transmission systems, water reuse systems, hydraulic modeling, water supply projects, horizontal directional drilling design, sanitary sewer evaluation surveys, management consulting, information management systems, and permitting.

Project Manager, 17.5 MGD Sodium Hypochlorite Disinfection Facility, City of Riviera Beach, Florida. Mr. Drummond is the Engineer of Record for the design of sodium hypochlorite (NaOCl) disinfection facilities for an existing 17.5mgd conventional lime softening Water Treatment Plant. This design entails the conversion of an existing gaseous chlorine disinfection to a sodium hypochlorite and includes new: NaOCl storage and chemical feed facilities; chemical piping, valves and appurtenances; flow meters for measurement of WTP flow and flow pacing of NaOCl chemical injection; re-carbonation system for pH control and new motor control center to consolidate various electrical equipment into the new facility.

Project Manager, Packed Tower Aerator Design Evaluation, City of Riviera Beach, Florida. Mr. Drummond provided the base design criteria required to renovate and provide media replacement of the four packed tower aerators for the 17.5mgd Water Treatment Plant.

Project Manager, 12 MGD Aguadulce Surface Water Treatment Plant, IDAAN, Aguadulce, Panama. This project included the design of a new 12mgd Surface WTP including, surface water intake from the Santa Maria river, raw water transfer pump station, flocculation and coagulation basins, dual media self-backwashing filters, solids handling and backwash recycle water basins, finished water storage and high service pump station to distribute water to remote storage tanks to serve 50 cities/towns through 200km of transmission pipeline.

Technical Advisor, Pacora and Penonome Surface Water Treatment Plants, IDAAN, Panama. This project included the analysis of the current designs and recommendations for improvements for the 12 MGD Pacora Surface Water Treatment Plant (WTP) and the 6 MGD Penonome Surface WTP to resolve various treatment issues with flocculation, coagulation and filtration systems.

Project Manager, WTP Hydraulic Profile Analysis, City of Riviera Beach, Florida. This project includes the development of a Hydraulic Profile depicting the process flow through the existing WTP and the analysis of the existing WTP hydraulics to identify issues and formulate recommendations for improvements to the existing WTP design and operation.

Project Manager, Preliminary Design of Lime Feed System, City of Riviera Beach, Florida. This project includes an analysis of the existing lime feed system, recommendations for improvements and the generation of a conceptual lime system improvement plan that defines the design criteria for the recommended improvements.

Project Engineer, West WTP Expansion, Phase II, City of Deerfield, Florida. Responsible for the design of a 9 MGD blending water treatment train including: lime softening unit, aerators, and associated chemical systems. Other responsibilities included the design of bulk storage tanks, piping, feed pumps, and injection points associated with the chemical systems of a new 10.5 MGD nanofiltration membrane plant.

Design Engineer, Rehabilitation of 16 MGD Water Treatment Plant, City of Lauderhill, Florida. Responsible for the design of lime sludge systems including vacuum filters, thickeners, and thickened lime transfer pumps; lime chemical feed ejectors; waste lime transfer pumps; and filter backwash pumps. Other responsibilities included the crosscheck of drawings and the writing and editing of specifications for upgrade modifications to the entire treatment plant.

Design Engineer, Preliminary Design for WTP Improvements, City of North Lauderdale, Florida. Mr. Drummond provided services to prepare a preliminary design for the design-build modifications being provided to the City's 7.5 mgd lime softening water treatment plant.

Project Engineer, Water Supply, Treatment and Distribution System Regulatory Review, City of Riviera Beach, Florida. This project provided a review of the existing and proposed drinking water regulations as they relate to operation of the City's water treatment and distribution system. A report summarizing existing and proposed drinking water regulations and identifying the City's current and potential near compliance status was provided.

Design Engineer, Evaluation of WTP Disinfection, City of Riviera Beach, Florida. Mr. Drummond provided the feasibility study to evaluate various alternatives to the existing disinfection system at the City's existing 17.5mgd lime softening water treatment plant.

Design Engineer, 2 MGD Concentrate Pump Station, City of Deerfield Beach, Florida. Mr. Drummond was responsible for the design of a 12-inch directionally drilled concentrate disposal water main for 2.0-mgd concentrate disposal pump station.

Project Engineer, Norwood-Oeffler Water Treatment Plant Concentrate Deep Injection Well Construction Review Report, City of North Miami Beach, Florida. This project included the review of technical details for the construction of a concentrate deep injection well and a dual-zone monitor well. A Construction Review Report was prepared that compared the construction, testing, and performance of the wells to the contract documents.

Project Manager, 38 MGD GTL WWTP Influent Bar Screen Rehabilitation Design Build, City of Fort Lauderdale, Florida. Mr. Drummond was the Engineer of Record for the design and permitting of the replacement of influent screening devices at the 38 mgd GTL Wastewater Treatment Plant. The rehabilitation included the design of four (4) new plate screens to replace all existing influent screening devices while keeping the WWTP in continuous operation.

Project Manager, LS 10 & 50 Rehabilitation and Replacement, City of Riviera Beach, Florida. Mr. Drummond is the Engineer of Record for the rehabilitation of an existing critical master submersible pump station and the rehabilitation and conversion of an existing 16mgd wet-pit / dry-pit master pump station to an above ground inline booster station.

Experience Summary

Mr. Kruljac has 22 years of construction experience with a strong background in industrial construction. Ian has 13 years of experience supervising mechanical and civil trades in maintaining and constructing refineries, chemical plants, power plants, food grade mechanical installations and civil highways. Ian is performing both construction management and cost estimating for many projects across the nation.

Assignment

Cost Estimating

Education

International Agriculture Economics, Lassen College, Susanville, CA

International Agriculture Economics, Texas A&M University

Experience

22 years

Joined Firm

2008

Registration/Certification

Journeyman Pipefitter

Journeyman Boilermaker

Journeyman Rigger

Certified Welder

Relevant Expertise

- *Estimating*
- *Construction contractor*
- *Construction management*
- *Petrochemical plants*
- *Process and mechanical systems.*
- *Troubleshooting*

Reclaimed Water Plant Expansion, Broward County Water and Wastewater Services, Broward County, Florida

Lead Estimator. Ian has prepared cost estimates associated with the design gates (30%, 60%, 90% and Final) for the expansion of the County reclaimed water plant from 10 mgd to 26 mgd.

Sawgrass WWTP Headworks Improvements, City of Sunrise, Florida

Lead Estimator. Ian has provided cost estimates associated with the design for the yard piping reconfiguration to provide a bypass to the facility's pretreatment structure and splitter box as well as for the new Bio-trickling Filter odor control system.

Sawgrass WWTP, High Level Disinfection System, City of Sunrise, Florida

Lead Estimator. Ian has prepared cost estimates for the facilities planning development of a for a 4-mgd AADF (expandable to 8-mgd AADF) High Level Disinfection Facility at the Sawgrass WWTP. The detailed design of the first phase is currently underway

Lift Station 107 Rehabilitation Design and Bidding Services, City of Sunrise, Sunrise, FL

Lead Estimator. Ian has prepared cost estimates for the design associated with converting a wet pit/dry pit station to a submersible lift station at a highly constrained site. The design addressed known performance issues at the station as well as enhancing the overall appearance of the site.

Lift Station 114, 123, 125, 132, and 148 Rehabilitation, City of Sunrise, Sunrise, FL

Lead Estimator. Ian has prepared cost estimates for the design associated with converting a wet pit/dry pit station to a submersible lift station at a highly constrained site.

Regional Sewer System Design, Confidential Client, San Francisco Bay Area, California

Lead Estimator. Ian prepared conceptual estimates for water supply, wastewater management and a water treatment facility for a more than $1 billion development.

Water Treatment Plant Design-Build, Turlock Irrigation District, California

Lead Estimator. In response to requests from the District, Ian prepared "scale reduction" estimates to allow the District to refine its project needs in light of pressing budget constraints.

Residuals Building, Baldwin Water Treatment Plant, Cleveland, Ohio

Lead Estimator. This 20,000-sq.-ft. multilevel masonry structure is on the National Historical Register. Ian carefully detailed this project's estimate to ensure the proper sequence, handling and dismantling of this facility. The estimate of probable construction cost was $4.1 million.

Laguna WWTP Cogeneration Plant Design, Santa Rosa, California

Lead Estimator. Ian performed a conceptual level estimate at approximately 10 percent design completion. In preparing the estimate, he identified and detailed the primary equipment, ancillary equipment and systems needed. The estimate of probable construction cost was $11.2 million.

Blue Plains Advanced WWTP Design, District of Columbia Water and Sewer Authority Cogeneration Facility, Washington DC

Cost Estimator. This project, originally designed by another engineering firm, was cancelled when the Authority received bids at twice the engineer's estimate of $322 million. BC redesigned this project and is constructing a Cambia system within the original budget. Ian developed a detailed estimate for the cogeneration portion of this project to replace the allowance that had been included in the original estimate.

Kentfield Force Main, Ross Valley Sanitary District, California

Lead Estimator. This project involves rehabilitating/replacing 7,500 feet of existing Techite pipe with about half the route in an existing levee along Corte Madera Creek. Project challenges include routing the pipe to minimize disruptions to residents, business, wetlands and the heavily traveled Sir Francis Drake Boulevard, and dealing with a narrow levee that was home to a popular pedestrian and bike trail. Ian worked with the project team from detailing the conceptual alternative routes through the final estimate at the 100-percent design completion level. Ian's work included developing planning-level schedules, reviewing constructability options, and assessing potential impacts on the environment and public.

North West Light Rail, Phoenix, Arizona.

Lead Estimator. This $27 million project had been under construction while engineering continued. The City "fast-tracked" this project but had been continuously negotiating with the general contractor. Ian reviewed the contractor's cost estimates and identified overlapping quantity costs. As a result, the City has been able to negotiate a lower overall project cost.

Tucson Interceptor, Tucson, Arizona

Lead Estimator. This project included the construction of approximately 22,000 LF of 60-inch and 72-inch HOBAS force main. The project cost was previously estimated at approximately $22.5 million. The City had negotiated with the general contractor prior to completing engineering design. Ian identified overlapping costs and irregularities in the contractor's estimate, which resulted in a nearly $5 million reduction in the negotiated project cost.

Kentfield Force Main Replacement Project, Phase 1, Ross Valley Sanitary District (RVSD), Larkspur, California

Construction Manager. Ian's duties for this project included managing submittals, meetings, change orders, RFIs, public interaction, resolution, environmental mitigation, and project site oversight. He worked with the engineers, owner representatives, and the contractor to maintain a constant flow of information and help ensure no work stoppages or delays occurred. Ian coordinated third party inspection services and project photo documentation. He also collaborated with multiple city, municipal, public utility and county agencies. Phase 1 included replacing the existing 36-inch-diameter Techite force main with 2,200 LF of 42-inch-diameter DR 21 HDPE piping. This phase also involved cleaning and CIPP installation for 3,400 LF of existing 30-inch-diameter non-reinforced concrete pipe, which was installed in 1922 for use to bypass flows during the force main replacement. The team also performed CPT testing and grout injection to stabilize an existing levee before Phase 2 work occurred. Due to environmental and wet weather constraints, the bulk of the work had to take place between July 1 and October 15.

Elizabeth A. G. Colomé,
President
Architect, LEED AP BD+C

Elizabeth Colomé established this firm in 1994, incorporated in 2000 as Colomé & Associates, Inc. This firm is dedicated to providing commitment to clients and attention to quality. Her experience includes educational, institutional, religious, civic and commercial architecture.

Florida Registration
1994 AR 0014839
2000 AA 0003439

Education

Bachelor of Architecture
Virgina Polytechnic Institute and State University, 1988

Master Certificate in Sustainable Construction
University of Florida, 2016

Professional Experience

School District of Palm Beach County

Continuing Service Minor Projects Contract 2012-ongoing
Projects include Modular Classroom Relocation, Restroom Buildings, and Renovations for Accessibility and Life Safety

St. Vincent Ferrer Catholic School Addition and Renovation

Delray Beach, Florida
Addition of 22,000 SF and Accessibility and Life Safety upgrades to the existing school constructed in 1955

Palm Beach County Continuing Service Contract

2007 - ongoing
Projects include Additions and renovations to existing Palm Beach County for WUD, Palm Tran, Fire Stations, and many others projects. Feasibility Studies, Site Analysis, Reports and Assessments.

Palm Beach County Canyon Branch Library

Boynton Beach, Florida
The design and construction administration for a 33,000 square foot library in western Palm Beach County. This project is currently in design.

Palm Beach County Palm Tran South

Delray Beach Florida
The design and construction of a three-story, 28,000 square administration building addition. This project is currently under construction.

Palm Beach County Palm Tran South

Delray Beach Florida
The design and construction administration of a three-story, 28,000 square administration building addition. This project is currently under construction.

West Settlers Mixed Use Building

Delray Beach Florida 2017
The design, competitive bidding and construction administration of a two-story building with offices and residential. This project received 2 Green Globes from the Green Building Initiative.

Banquet Hall
Palm Beach Gardens, Florida

PBIA 15 Restroom Renovations
West Palm Beach, Florida

PBSO District 4 Conference Room
Delray Beach, Florida

Colomé & Associates, Inc.

Florida Registration AA0003439

Architecture □ Planning □ Interiors

530 24th Street □ West Palm Beach, Florida 33407 □ Telephone: (561) 833-9147 □ Facsimile: (561) 833-9356 □ E-mail: colome@colome-arch.net

Diego M. Herrera, PE

Experience Summary

Diego Herrera has over 15 years of experience in project management, and civil and environmental design for water and wastewater projects in the public and private sector. Projects involved contract preparation for study and analysis, design, QA/QC, value engineering, permitting, bidding, construction administration, startup, and operation and maintenance. Mr. Herrera's primary areas of expertise include: design of storm water management systems for land development projects, permitting, construction oversight, and inspection; preparation and permitting of water supply plans, master plans, reports for municipalities; planning and design of raw water collection wells and water treatment plant improvements, water distribution systems, permitting, and construction oversight; analysis and planning of reuse water processes and design of reuse water distribution systems, permitting and construction oversight; study and analysis, planning and design of wastewater collection systems and pumping stations (low-pressure, vacuum, and conventional gravity), permitting, and construction oversight. Additionally, he has experience in design-build projects. He has successfully completed over 100 wastewater collection systems, pumping stations, and existing wastewater systems evaluations; over 50 raw water collection and water treatment plant processes evaluations, and water distribution systems; and over 20 projects involving reuse water study and analysis, reuse water treatment plant evaluations and upgrades, and reuse water distribution systems.

Assignment

Civil Engineering/Stormwater

Education

B.S., Civil Engineering, Military School of Engineering AJS La Paz, Bolivia, 2003

Registration

Professional Engineer #73143, Florida, 2011

ASCE Broward Branch, 2011

Experience

15 years

Joined Firm

August, 2017

Relevant Expertise

- *Water/Wastewater/Reuse Systems*
- *Drinking Water*
- *Pumping Systems*
- *Project Management*
- *Storm Water Analysis*

Water Supply and Water Treatment Plant Evaluation/Improvements

Replacement of Wellheads 5, 6, 8R, Coral Springs, Florida

Design Engineer. Design of 3 raw water wellheads and coordination of the installation of 3 new raw water supply wells for the City of Coral Springs' service area to supply the main water treatment plant. This project allowed the City to regain 3,000 GPM of raw water flow to meet potable water demand of residents. The total cost for this project was $800,000.

Water Treatment Plant Improvements – Phase II, Coral Springs, Florida

Design Engineer. Supported in the design of different improvements in the City's water treatment plant. Modeling of WTP pressures and flows in conjunction with raw water system. Project included the design and construction of a new filter backwash supply pump station, on-site process water distribution system modifications, rehabilitation of pre-aeration towers, replacement of filter effluent transfer pumps, clearwell assessment and demolition, emergency sludge lagoon assessment and repair, and storm water management planning. The total cost of the project was $3.6M.

Rehabilitation of East Booster Station, Coral Springs, Florida

Design Engineer. Rehabilitation of one of the City's booster stations that included replacement of split case high service pumps, new pressure sustaining valves additions to existing ground storage tanks, upgrade of existing building to house crew during emergency operations, electrical modifications and instrumentation add-ons, overall site upgrades, and addition of a new wastewater grinder station. The total cost of the project was $1.3M.

Rehabilitation of East Booster Station, Coral Springs, Florida

Design Engineer. Rehabilitation of the second of a total of 3 City's booster stations that included replacement of split case high service pumps, pressure sustaining valves additions to existing ground storage tanks, upgrade of existing building to house crew during emergency operations, electrical modifications and instrumentation add-ons, and overall site upgrades. The total cost of the project was $1.2M.

Water Treatment Plant Clearwell Addition, Tamarac, Florida
Design Engineer. Project included the demolition of the existing clearwell and the design of a new clearwell for the City of Tamarac. The design included modeling other WTP elements to be interconnected with the new clearwell. Design and modeling of filter effluent transfer pumps and filter backwash pumps. The total cost of the project was $2.2M.

Water Treatment Plant Washwater Recovery Basin, Tamarac, Florida
Design Engineer. Addition of a new washwater recovery basin to the existing WTP. This project included the design of 2 lift stations with submersible pumps for the removal of lime sludge and the transfer of washwater recovery. The total cost of the project was $1.6M.

Seminole Golf Club New Maintenance Building, Juno Beach, Florida
Design Engineer. The Seminole Golf Club is a private golf club that requested to have a new maintenance building in its premises. This building would need to be sized to store all the equipment normally used to maintain the golf course and adjacent areas. Services include wastewater collection through a pump station, water main systems, drainage culverts for road entrance expansion, and a storm management system. The total cost of the project was $2.1M.

Storm Drainage System for the Fountainhead Condominium, Lauderdale by the Sea, Florida
Project Manager. Provided services to design a storm water management system for a beach-front condominium located in Lauderdale by the Sea that complained having its underground garage flooded during the rainy season. Other improvements were requested from client such as the installation of a new generator that would be connected to the storm water drainage system and other electrical systems vital to the operation of the condominium during blackouts. The drainage systems consisted in the reconfiguration of the underground parking plumbing, storm water management system (including exfiltration trenches, pumping station, and 2 drainage wells for excess storm water discharge), new electrical panels, generator, and operations room remodeling to suit electromechanical improvements. This project included permitting through local agencies and assistance during construction. The total cost of the project was $1.5M.

Our Lady Queen of Peace Cemetery – Sacred Heart Expansion, Village of Royal Palm Beach, Florida
Project Manager. Expansion of one of the areas of the cemetery. This expansion comprised of storm water management design and permitting though local agencies. This project was managed taking in consideration slim timeframes the client had to place into service the new developed area. The total cost of the project was $120,000.

Our Lady Queen of Peace Cemetery – Westside Expansion/Phase II, Village of Royal Palm Beach, Florida
Project Manager. Managed the design of the expansion of the west and north areas of the cemetery. This expansion comprised of storm water management design and permitting though local agencies, and coordination with architect and local municipalities and agencies. The project included the design of a wastewater grinder station, irrigation systems, and water distributions systems. The total cost of the project was $1.5M.

Davis Road Storm Drainage System, Village of Palm Springs, Florida
Project Manager. The Village needed to have Davis Road drainage ditch re-evaluated. A conceptual design was proposed to have the ditch filled since debris from neighboring sites was being thrown into it, while a hard pipe drainage system would be installed as part of the fill. The concept allowed the Village provide storm water management to the residents and continue having a positive drainage outfall to the existing nearby canal. the design included hard pipe ranging from 24 to 54 inches in diameter, conflict structures, and connections to permitted systems in the area. The project included permitting and services during construction. The total cost of the project was $300,000.

ADAM C. SWANEY, P.E., VICE PRESIDENT
PROJECT ENGINEER

EDUCATION

Bachelor of Science, Civil Engineering, University of Florida, 2005

CERTIFICATIONS

State of Florida, Civil Engineering #72235

AFFILIATIONS & AWARDS

- LEED Accredited Professional, FL, 2009
- Young Engineer of the Year, American Society of Civil Engineers, Palm Beach Branch, 2008
- ASCE Younger Member Coordinator, Palm Beach Branch, 2006-2008

Mr. Swaney is a Senior Project Manager who works with both public and private sector clients. He is responsible for water distribution systems, sanitary sewer and stormwater design and modeling, site grading and various agency permitting. Throughout his career, Mr. Swaney has also worked on many roadway improvement projects, most recently designing all new roads on a land development project located across the C-51 Canal form Southern Boulevard that was recently annexed into the Village of Royal Palm Beach.

EXPERIENCE

Lakewood Road Sidewalks, Palm Springs, FL
Mr. Swaney was Project Manager, providing Construction Administration services for this project. The Village had funds allocated to improve pedestrian mobility, provide accessibility to parks and enhance neighborhood lifestyles. The new sidewalk was designed by Engenuity Group, including preliminary and final design, permitting, bidding and construction administration services.

Wellington Municipal Complex, Wellington, FL
The Project is described as a Design/Build of a municipal complex on a 6 acre site for the Village of Wellington. Project elements included design and permitting of a stormwater collection cistern, water, sewer, paving and grading improvements. This project achieved LEED Silver Certification.

Sunny Isles Beach Stormwater Detention Area Study, Sunny Isles, FL
Serving as Project Manager in the preparation of this conceptual drainage report, meeting with Owner and conferencing with City Manager, investigating permitting on existing FDOT detention areas in the general area of A1A and 189th St. Tasks included addressing possible expansion and renovation of the drainage areas and preparing preliminary drainage calculations.

Westgate Belvedere Heights CRA Drainage
Mr. Swaney is Project Manage, providing civil engineering services, in connection with the CRA's efforts to assess and improve drainage neighborhood-wide. He supervised the preparation of a comprehensive drainage study that included conceptual layout of inlets, culverts, detention areas and positive outfit to regional canal system. It involved coordination with CRA about the placement of detention areas and the preparation of drainage calculations in accordance with PBC and SFWMD criteria for water quality and conveyance. This study was then presented to the board

who approved the drainage project and tasked Engenuity Group with its civil design. Mr. Swaney is Project Manager for the development of this design project. Our scope will also include permitting and construction phase services that will be overseen by Adam.

Fire Station #2, Riviera Beach, FL
The old Fire Station No. 88 site is being repurposed into a new facility to be known as Fire Station No. 2. This site will consider shared access and parking with the City's Barracuda Bay Water Park. As Project Manager, Mr. Swaney is responsible for much of this project's development through the schematic design, design development, construction documents preparation, permitting and bidding phase, and construction administration & certification phases.

Riviera Beach CRA, 2600 Broadway Building Redevelopment, Riviera Beach, FL
In connection with the referenced project Mr. Swaney provided civil engineering services as Project Manager through the schematic design, design development, permitting, bidding and construction phases. The work entailed façade modification, site improvement, landscaping, construction and buildout for this 25,412 SF building that the CRA aimed to develop into first floor retail and second floor offices.

Cypress Lane Water Main Replacement, Palm Springs, FL
Project Manager, overseeing civil design, namely permitting, bidding and construction phase services. Responsibilities include gathering technical information and data for permit submittals, preparing bid documents and overseeing the bidding process. Managing the preparation of record drawings and engineer's opinion of probable cost, attending preconstruction meetings and preparing final drawings, conducting site visits and submitting all pay requests to the Village.

Village of Palm Springs Frost Lake Outfall Improvements, Palm Springs, FL
This drainage outfall connection in Palm Springs experienced a failure, which required replacement of the existing HDPE culvert with a 24" RCP outfall to restore the historical outflow capacity, and installation of a culvert to pass flow from Lake Frost north to an existing drainage ditch which outfalls to the L-8 Canal. Under our continuing services contract with the Village Mr. Swaney is serving as Project Manager as Engenuity Group is assisting in the preliminary design phase, preparation of drawings, specifications, and preparation of engineer's opinion of cost, bidding and construction phase services.

Earman River Intake Pump- North Palm Beach
The Village of North Palm Beach and Engenuity Group, Inc. worked together to demolish an existing lift station, and design a new dual- pump station, which included a new structured cover and faster pumps. Mr. Swaney prepared civil drawings, indicating drainage, grading, and pump station work. He also prepared a pollution prevention plan, and applications affiliated with the Village of North Palm Beach Drainage and South Florida Water Management District.

Boynton Beach City Hall Parking Imp.
Improvements were made to the parking lot of the Boynton Beach City Hall for which Engenuity Group proved professional engineering services in the Design and Permitting Phase with Mr. Swaney as Project Engineer. He oversaw the preparation of Drawing for the scope of paving and markings for the Contractor and for Permit Filing.

Experience Summary

Harry Tomlinson has 28 years of civil engineering experience with concentrations in geotechnical engineering and surface water management. Most of this experience is associated with solid waste management, contaminated site rehabilitation, and water resources. Harry has been involved in all stages of design, permitting, and construction of surface water storage and treatment projects; landfill development expansion and closure projects; waste transfer stations; old landfill reuse projects; and site remediation projects. Harry has extensive experience in the design and construction of geosynthetic enhanced soil systems including filters, drains, landfill caps and liners, and structural reinforcement. He is proficient in two-dimensional groundwater flow modeling and slope stability analysis. He has laboratory and in situ soil testing experience and extensive construction management experience.

Assignment

Geotech & Testing

Education

Georgia Institute of Technology, Atlanta, Georgia: M.S., Geotechnical Engineering

Georgia Institute of Technology, Atlanta, Georgia: B.S., Civil Engineering

Registration

Florida, P.E. Number 48249

Experience

28 Years

Joined Firm

2006

Relevant Expertise

- *Surface Water & Solid Waste Management*
- *Contaminated Site Rehabilitation*
- *Landfill Design*
- *Landfill Redevelopment*
- *Geosynthetic Enhanced Soil Systems*
- *Geotechnical Engineering*
- *Construction Phase Services*

Sawgrass WWTP, High Level Disinfection System, City of Sunrise, Florida

Project Manager. Construction services associated with a 4-mgd High Level Disinfection Facility at the Sawgrass WWTP.

Georgia Pacific Oxidation Pond Containment Modification, Palatka, Florida

Lead Geotechnical Engineer. Led the design effort for restoration and improvement of a 900-acre system of eight interconnected industrial wastewater treatment ponds for a paper mill in Palatka. He performed seepage and stability analysis on the existing embankments containing the ponds and performed iterative analyses to design enhancements to the existing embankments. Harry designed a phased construction process for a new embankment to separate two ponds and allow dewatering and reconfiguration of the pond system. Harry authored plans and specifications for the pond system enhancements and served as engineer of record for the Civil discipline of this project.

Ash Monofill Closure, Miami-Dade County, Florida

Project Manager and Lead Geotechnical Engineer. Designed the cap for a 10-acre closure for Cell 19 of the Resources Recovery Facility ash landfill in Miami-Dade County. Harry was responsible for design of the barrier and drainage layers within the cap, the global and veneer stability analysis for the closure design, and value analysis for selection of cover soil and drain material. The municipal solid waste incinerator ash landfill has 3H:1V slopes and limited space for cover swales or benches.

C-44 Reservoir S-401 Pump Station Construction Management, South Florida Water Management District, West Palm Beach, Florida

Project Manager. Provide support and augment staff in the construction management of the S-401 Pump Station for the C-44 Reservoir/STA Project. The project includes the construction of a 21,000-square foot, fully operational, three story pump station building with four 275 cubic feet per second (cfs) electric pump systems and the remaining 600 feet of the C-44 Intake Canal.

East Coast Protective Levee Rehabilitation Project, South Florida Water Management District, Broward and Miami-Dade County, Florida

Construction Management Project Manager. Responsible for providing Construction Management inspection services and Construction Quality Control (CQC) for a 41-mile long, levee rehabilitation project consisting of toe filter construction, slope re-grading and restoration, riprap erosion protection and road improvement. This project was designed and managed by SFWMD to meet requirements for FEMA flood protection Levee certification. The project is being constructed under three different contracts by two different contractors. Mr.

Tomlinson provides supervision of the inspection team and serves as a geotechnical expert on an as-needed basis.

C-44 Reservoir and STA - Microwave Communication Tower Project, South Florida Water Management District, Martin County, Florida

Construction Management Project Manager. Responsible for providing Construction Management and Construction Quality Control (CQC) for a 300-foot-tall microwave communication tower, appurtenances, and entrance road. This project consists of a contract for procurement of the microwave communications equipment and another construction and installation contract. Mr. Tomlinson provides supervision of the Lead Construction Manager and inspection team and serves as a geotechnical expert on an as-needed basis.

S-6 Pump Station - Microwave Communication Tower Project, South Florida Water Management District, Palm Beach County, Florida

Engineering During Construction Project Manager. Responsible for providing Engineering During Construction for a 200-foot-tall microwave communication tower, appurtenances, and associated microwave data transmission system improvements in the area. This project includes adoption of a design performed by another engineering firm, review of all submittals, change orders, requests for information, periodic construction observation, and final certification. Mr. Tomlinson provides supervision of the team of reviewers and is the engineer of record for the civil engineering discipline.

Compartment B Buildout, Palm Beach County, Florida

Engineer of Record and Project Manager. Performed technical and management roles during design and construction phases for this Everglades Restoration Project, which consisted of three major storm water pumping stations (3,200 cfs combined capacity), over 30 miles of levee, and 20 flow control structures.

Everglades Agricultural Area Reservoir A1, Palm Beach County, Florida

Construction Management Lead Engineer. Responsible for initiating the Construction Management and Construction Quality Control (CQC) Program for construction of a 21-mile long, zoned-fill, earth dam with roller compacted concrete armoring. This earth dam was a $450 million component of the 26,000-acre EAA Reservoir A1, a CERP project. Mr. Tomlinson wrote the CQC Plan, negotiated the scope of work and budget, and assembled a team of over 15 professionals to provide CQC testing and documentation. The team provided Quality Assurance inspection and testing services during production of aggregate for the dam and construction of test pads for drainage layers and RCC armoring. The team also developed a GIS referenced database for test analysis, storage, and reporting. The project was canceled before construction of the major components of the dam started and Mr. Tomlinson also managed the project closeout.

Pace Landfill Redevelopment, Miami, Florida

Lead Engineer. Provided geotechnical engineering and surface-water management related services associated with redevelopment of an 18-acre closed, unpermitted, landfill. Mr. Tomlinson identified surface-water management alternatives for potential development of the property and evaluated the previous geotechnical investigations performed at the site. Without performing additional investigation, Mr. Tomlinson was able to provide the landowner with information necessary to support his negotiations with potential buyers. After the site was conveyed to a developer, Mr. Tomlinson continued with the project as the geotechnical engineer and consultant regarding solid waste and landfill gas related issues. He performed a detailed subsurface investigation for the proposed development of an upscale shopping center, designed several innovative foundation alternatives, designed a dynamic compaction program to lower the site elevation and mitigate settlement, designed and implemented a dynamic compaction pilot study, implemented pile load tests and a test program to evaluate the feasibility of using auger cast piles through the waste layer, was involved in the design of stormwater drainage wells, and designed a landfill gas mitigation and monitoring system for the site. Mr. Tomlinson was the certifying engineer for the Construction Quality Assurance program performed during the site preparation phase of construction and for the installation of the gas mitigation and monitoring system.

Gregory J. Stelmack, P.E
RADISE International, L.C.
Senior Project Manager

Mr. Stelmack, PE, has over 30 years of experience and an extensive history of work involving all types of Civil Engineering and Infrastructure related projects. He has served as the Engineer of Record on 100's of projects, and currently acts in a Quality Assurance (QA) role, overseeing RADISE's Materials Engineering Services Business Unit and supporting the Geotechnical Business Unit. He has served as Sr. Project Manager and Sr. Geotechnical Engineer for numerous large scale and high-profile water resource related projects for both private and public clients, including: The South Florida Water Management District (SFWMD), Florida Department of Transportation (FDOT), the United States Army Corps of Engineers (USACE), and numerous City and County Agencies.

Mr. Stelmack is an expert in providing geotechnical and materials engineering; materials testing and inspection; and CEI services for earthwork/reservoirs, pump stations, commercial structures, roadway/bridge structures and interchange projects. He has provided quality assurance/quality control for a wide variety of water resources, commercial, industrial, transportation, retail and institutional projects. His skill set includes planning, design, permitting and construction management of new and rehabilitation projects. He is experienced with both standard and specialty field/laboratory testing equipment and specializes in providing design recommendations for deep and shallow foundation systems (i.e. commercial structures, bridge structures, transmission and communication towers, substations, water and wastewater treatment plants, dams, highways, road development and design, embankments and retaining structures).

Mr. Stelmack prepares and reviews geotechnical and materials engineering and inspection reports, coordinates and supervises engineering staff and drilling personnel, and conducts foundation observations, foundation design reviews and geotechnical instrumentation monitoring.

PROFESSIONAL REGISTRATION AND CERTIFICATIONS

- Registered Professional Engineer, Florida #70556 (2009)
- CTQP Drilled Shaft Inspection
- CTQP Pile Driving Inspection

EDUCATION

BS in Civil Engineering - University of Wisconsin, Madison 1989

AFFILIATIONS

- Florida Engineering Society (ACEC)
- American Society of Civil Engineers
- Palm Beach County Chamber - Government Affairs Committee
- Society of American Military Engineers
- Construction Specifications Institute
- Knights of Columbus

CAPABILITIES

- Water Resources Engineering
- Water Control Structures
- Geotechnical Engineering
- Project Management
- Construction Materials Testing
- Construction Engineering Inspection
- Construction Engineering
- Structural Engineering
- Quality Control
- Design Recommendation & Review

REPRESENTATIVE EXPERIENCE

Materials Testing Continuing Services Contract, FDOT D4/D6, Districtwide, FL. Project Manager - As Prime Consultant for this ongoing contract, the work includes providing districtwide materials field and lab testing services.

Materials Testing Continuing Services Contract, FDOT Turnpike, Districtwide, FL. Project Manager - As Prime Consultant for this ongoing contract, the work includes providing districtwide materials field and lab testing services.

Miscellaneous Geotech & Materials Testing and Inspection - FDOT D2, D4, D5, D6, D7, Turnpike, FL. Project Manager – as a Sub these ongoing contracts providing geotechnical engineering, materials testing and inspection services.

S-842 (Broward Boulevard) - Structure Investigation for Bridge Replacement, FDOT D4, Broward County, FL. Project Manager - Oversight including field exploration/testing and laboratory testing. Construction of two replacement bridges, resurfacing, restoration and rehabilitation, and the replacement of the substandard barrier wall.

SR-817 (University Drive) from Nova Drive to I-595 Ramp, FDOT D4, Broward County, FL. Project Manager - Provided roadway soil survey and structures investigation, testing for drainage features and mast arm design.

I-75 Express Lanes – Segment E, FDOT D4, Broward County, FL. Project Manager. Provided geotechnical engineering services for the improvements along the I-75 (SR9) corridor. The length of the project was about 12 miles from the Miami-Dade County/Broward County line to North of I-595 Interchange in Broward County.

SR-9/I-95 PD&E, south of High Meadows Road to North of Becker Road, FDOT D4, Martin and St. Lucie Counties, FL. Project Manager - Project included approximately 13 miles of roadway soil survey and testing for drainage features.

I-95/SR-9 PD&E Study, North of Becker Road to south of SR-70, FDOT D4, St. Lucie County, FL. Project Manager - Project included approximately 13½ miles of roadway soil survey and testing for drainage features.

I-95 Additional Auxiliary Lanes from S. of Glades Road to N. of Yamato Road, FDOT D4, Palm Beach County, FL. Project Manager - Project consists of approximately 6 miles addition of 2 auxiliary lanes, 2 new interchanges, 25 bridge expansions and new bridges.

82nd Avenue from South of 26th Avenue to CR 510 (Wabasso Road), FDOT D4, Indian River County, FL. Project Manager - Design and construction of four new bridges with drainage improvements and a new roadway along 82nd Avenue in Indian River County. The length of the roadway is approximately 7.5 miles through citrus groves and pasture land.

Kingfisher Bridge and Bulkhead Walls Replacement FDOT D4. Project Manager - Field investigation and geotechnical recommendations for replacing the existing bridge and bulkhead walls (designed as king-post pile and panel system). The replacement foundation system involved pre-stressed square concrete driven piles.

Ranch to ZZ-Haul Road Construction, FDOT D4, Palm Beach County, FL. Project Manager - Construction of an unpaved haul road, for the Ranch ZZ Right-of-Way Improvements Project. Geotechnical Engineering Services including field exploration, testing and inspection as well as laboratory testing. Provided engineering oversight and observation of construction to verify conformity to project specifications.

Andrew Nixon, PE
RADISE International, L.C.
Project Manager

Mr. Nixon has 15+ years of experience including providing Environmental, Geotechnical and Construction Materials Testing Services for low and high-rise structures, single family residential developments, bridges, piers, buried structures, transmission towers, silos, roadways, etc.

He prepares and reviews geotechnical and materials engineering inspection reports, coordinates and supervises engineering staff and drilling personnel, and conducts foundation observations, foundation design reviews and geotechnical instrumentation monitoring.

Mr. Nixon's skills include also completing and supervising pile inspections, helical pier inspections, fireproofing inspections, load tests, and monitoring specialty ground improvement techniques such as vibrocompaction, vibro-replacement and dynamic compaction. He has conducted and supervised several Preconstruction Video Surveys and Vibration Monitoring Programs.

He has provided oversight of field and laboratory testing programs during the construction phase of a variety projects and supervised other engineers in the Construction Materials Testing Department. The testing programs typically included the performance of earthwork inspections, field and laboratory testing of soils, and field sampling of concrete. Mr. Nixon has also inspected and supervised testing programs during the construction of various roadway projects.

PROFESSIONAL REGISTRATION AND CERTIFICATIONS

- Professional Engineer, Florida, #71458
- OSHA 40-hour Health and Safety / OSHA, 29 CFR 1919.120 (HAZWOPER)
- Qualified Stormwater Management Inspector, Inspector # 27919

EDUCATION

B.S. Ocean Engineering, Florida Atlantic University, Palm Beach County, Florida

AFFILIATIONS

- Florida Engineering Society
- National Society of Professional Engineers
- Florida Engineering Leadership Institute Alumni
- American Society of Civil Engineers

CAPABILITIES

- Project Management
- Cost Estimating
- Geotechnical Engineering
- Earthwork Inspection
- Construction Materials Testing
- Quality Control
- Vibration Monitoring
- Design Recommendation & Review
- Foundation System Design
- Environmental Engineering
- Phase I & II Environmental Site Assessments
- Report Preparation
- Site/Contamination Assessment Reports
- Remedial Action Plans
- Tank Closure Assessments

REPRESENTATIVE EXPERIENCE

FDOT Broward MPO – Lauderdale Lakes Greenway (NW 39th Street), Broward County, Florida
Senior Project Engineer – Provided geotechnical engineering services for the design of decorative lighting on east side of SR-5/US-1 from 11th street to 27th street, and the design of noise wall along I-95.

FDOT SR-25/US-27 from the Broward/Palm Beach County Line to MP 12.599, Palm Beach County, Florida
Senior Project Engineer – Provided geotechnical engineering services for roadway improvements, which included milling, resurfacing, shoulder widening, and installation of rumble striping, replacement of guardrail and upgrading signing and pavement markings.

SFWMD L-8 Reservoir Project, Palm Beach County, FL
Provided subsurface explorations and geotechnical engineering services for the proposed reservoir project, which involved the installation of facilities to allow filling of the L-8 Reservoir with water from the adjacent L-8 Canal, and the pumping of reservoir water into the L-8 Canal through a separate pump station as needed. Also, provided construction engineering and inspection services for the SFWMD during the construction phase of the project.

USACE Herbert Hoover Dam Rehabilitation Project, Palm Beach County, FL
Senior Project Engineer – Provided subsurface explorations geotechnical engineering services and materials testing services for the Contractor.

Village of Wellington Roadway Improvement Projects, Wellington, Florida
Senior Project Engineer - Inspected various roadways for the Village Wellington to identify roadways in disrepair; provided geotechnical engineering services and pavement evaluations; managed the testing and inspection programs during repairs/repaving projects.

Palm Beach County – Continuing Services contract for Geotechnical Engineering, Material Testing and Inspection Services, FL
Senior Project Engineer - Provided geotechnical and environmental engineering for this continuing contract. Relevant projects included: Acreage Branch Library - Government Center Chiller Replacement - Historic Courthouse Renovation - Palm Beach County Courthouse - South County Courthouse Parking Garage - Jupiter Library Expansion.

South Florida Water Management District, FL
Senior Project Engineer – Provided geotechnical and environmental engineering services for multiple SFWMD projects. Projects include levees, reservoirs, water control structures and water quality projects.

Florida Power & Light, South Florida
Senior Project Engineer - Provided geotechnical engineering services for a variety of projects including transmission and cell towers, substations, clean energy centers (power plants), as well as various improvement projects to Corporate Headquarters in Juno Beach.

Ballpark of the Palm Beaches, West Palm Beach, Florida
Senior Project Engineer – Provided geotechnical and environmental engineering services for the construction of a spring training facility on a former landfill site.

Village at Mangonia Lake Project, West Palm Beach, FL
Senior Project Engineer - Provided geotechnical engineering services for the construction of a multifamily residential development. Provided recommendations and supervised the implementation of the Vibrocompaction soil improvement technique to allow the support of the mid-rise buildings on shallow foundations.

City of West Palm Beach – Multiple Roadway and Drainage Improvement Projects, West Palm Beach, FL
Senior Project Engineer – Provided geotechnical and environmental engineering services for various roadway and drainage improvement projects throughout the City.

Experience Summary

Mr. Abordo has over 45 years of electrical engineering design experience. His experience includes design of power systems and control components for water and wastewater treatment facilities, membrane and ozone generation facilities, emergency power generation and distribution, pumping stations, and water supply and distribution. Mr. Abordo's experience encompasses all electrical engineering components of a project, including: studies, planning, conceptual designs, detailed designs, project management, construction services, startup, commissioning, design-build, and design-build-operate and engineer-procure.

Assignment

Electrical/I&C

Education

BS, Electrical Engineering, University of the Philippines

MS, Electrical Engineering, University of the Philippines

Registration

PE, Florida # 48046

Experience

45 years

Joined Firm

2013

Relevant Expertise

- *MV and LV Power Distribution Design and Construction*
- *MV and LV Standby Power Generation Design and Construction*
- *Pumps and Motor Controls*
- *Switchgear and Motor Control Centers*
- *MV and LV Variable Frequency Drives*
- *Overhead Power Distribution up to 69kV*
- *Short Circuit Studies*
- *Electrical Power Distribution Planning*

Sawgrass Water Treatment Plant, City of Sunrise Utilities Department, Sunrise, Florida

Lead Electrical Engineer. The Sawgrass Water Treatment Plant is a $15M, 18-mgd membrane softening (nanofiltration) facility with an initial installed capacity of 12 mgd. This project included several 250HP 480V motors for membrane feed pumps and high service pumps with variable frequency drives, two 1500-kW standby generators and 480-volt metal enclosed paralleling switchgear. Mr. Abordo provided inspection, construction management and start up services for the parallel standby generators and the associated low voltage generator and utility switchgear.

City of West Palm Beach WTP Electrical/Generator Design, City of West Palm Beach Utilities Department, West Palm Beach, Florida

Lead Electrical Engineer. Mr. Abordo served as the lead electrical engineer responsible for the preliminary design, and final design of the $15M electrical improvement project at the Banyan Road WTP. The project involves installation of new double-ended MV main switching center, 2-7500kVA primary unit substation transformers, MV automatic transfer switches, 3-2500kVA emergency generators, pad mounted transformers and LV switchgear.

Pinehills Water Treatment Plant Expansion and Southeast Water Treatment Plant, Orlando Utilities Commission (OUC), Orlando, Florida

Project Electrical Engineer. Mr. Abordo was responsible for the electrical design and construction management portion of this $15M project involving an engineer, procure, construct and manage (EPCM) design-build approach. Both projects were ozone water treatment plants with (4) 250kW ozone generators treating hydrogen sulfide and providing primary disinfection. These projects required 4.16kV MV and 480V LV unit substations and switchgear to provide power to several high capacity ozone generators for water treatment. These projects were completed on time and on budget.

Storm Water Treatment and Pumping Stations, South Florida Water Management District, West Palm Beach, Florida

Lead Electrical Engineer. Mr. Abordo served as the lead electrical engineer for the joint venture design with Burns and McDonnell on the $200M storm water treatment area and two large pumping stations. Storm water treatment STA 3 / 4 and STA 5 were the largest in the world at the time of construction. The project involves multiple automated gate controls and control buildings, and pumping stations with several 1000HP Fairbank Morse engine driven pumps. The project is one of several projects for the Everglades Restoration Project financed by the State and Federal Government.

Water Reclamation Facilities Upgrade, City of Cape Coral Department of Public Works, Cape Coral, Florida

Lead Electrical Engineer. Mr. Abordo served as the program lead electrical engineer for this $873M design-build program involving two major wastewater treatment plants expansions and a new RO water plant and several raw water wellsites, which are already in operation. The electrical portion of the projects involved major upgrades for the 480Volt main switchgear and standby power for water, wastewater, and reclaimed water, collection, distribution, storage, treatment elements and full capacity standby power generation. Typical motor horsepower ranges from 100 to 600HP, 480V motors with variable frequency drives. The major electrical works include planning, design, construction services, and startup of multiple 2250kW standby generators, storage and high service pumping systems, headworks facilities, and liquid and solids process trains. The new Reverse Osmosis (RO) water treatment plant was designed with medium voltage (4.16kV) power distribution and 480V double-ended unit substations. The new well sites for the new RO Plant have portable generator hook-ups. Mr. Abordo has also served as the lead electrical engineer for the new biosolids/sludge drying facility for the City and the new North Cape wastewater reclamation facility with membrane biological reactor (MBR) technology.

North Regional WWTP Reclaimed Water Plant Expansion, Broward County Water and Wastewater Services' (BCWWS), Broward County, Florida

Lead Electrical Engineer. BCWWS' existing reclaimed facility to increase its firm rated capacity from 10 mgd to approximately 26 mgd. This project is a result of the Ocean Outfall Legislation. The expansion will treat secondary effluent to meet High Level Disinfection (HLD) standards as defined by the Florida Department of Environmental Protection (FDEP). The proposed expansion is estimated at $53 million construction cost and includes construction of a new filter feed pump station, additional filters, chemical storage and feed, chlorine contact basins, reclaimed water pump station, electrical power distribution and requisite back-up emergency power. Additional elements include integration of existing/aging infrastructure with proposed infrastructure, maintenance of operations during extensive electrical/structural/process tie-in, design process to handle wide-ranging operating conditions from startup to buildout, and coordination between BCWWS operations and engineering teams and eight subconsultants working on various elements.

NDWWTP Plant Wide Electrical BODR, MDWASD, Miami, Florida

Lead Electrical Engineer. The original R&R report recommended replacement of all of the transformers in the north and south sections of the Main Electrical Switchgear Building, the replacement of portions of the 5 kV feeders, the replacement of the generator bus and generator housing and with the replacement of the lightning protection system. In May 2014, MDWASD issued a directive that all new critical electrical equipment shall be located at a minimum of 16.0 ft. NGVD at the NDWWTP to protect the equipment from projected Sea Level Rise (SLR) and storm surge levels. In 2015, this elevation was revised to 17.1 NGVD. Therefore, a brand new electrical/generator building for the NDWWTP is needed since the existing main switchgear building has a finished floor elevation of 11.0 NGVD and does not meet the new requirement. The BODR presents design criteria for the new facility including new transformers, switchgear, and generators enclosed within a new structure, as well as a control room, break room and restrooms.

City of Sunrise Sawgrass WWTP High Level Disinfection Project, Sunrise, Florida

Lead Electrical Engineer: Mr. Abordo served as the lead electrical engineer for the $100M Tertiary Filtration System and Pumping Station Project involving new double-ended 480V switchgear, variable frequency drives for pumps, motor control centers and new remote terminal unit (RTU) for the existing SCADA. The project involves sand filtration system, chlorination system, reuse water pump storage, new electrical and chemical buildings, and site lighting and power distribution.

Experience Summary

Hector Serrano brings over 17 years of electrical engineering experience. Areas of expertise include the design of power systems, control and security components for water and wastewater treatment facilities and pumping stations, emergency power generation and distribution, and water supply and distribution. He has spent the majority of his career in South Florida and is currently working on key projects for SFWMD. Hector has is committed to helping STOF with their upcoming projects.

Assignment

Electrical/I&C

Education

BS/BSc, Electrical Engineering, Florida International University

Registration

Professional Engineer: FL #77767

Experience

17 years

Joined Firm

2016

Relevant Expertise

- *Power semi-conductor devices (i.e., thyristors, insulated gate bipolar transistors, MOSFETs, diodes)*
- *Electronic components*
- *A.C./ D.C. circuits, power supplies, stepper motors*
- *Embedded Software Development for MCUs*
- *IP66,67/NEMA equivalent enclosures for wet locations*

North Regional WWTP Reclaimed Water Plant Expansion, Broward County Water and Wastewater Services' (BCWWS), Broward County, Florida

Electrical and I&C Engineer. BCWWS' existing reclaimed facility to increase its firm rated capacity from 10 mgd to approximately 26 mgd. This project is a result of the Ocean Outfall Legislation. The expansion will treat secondary effluent to meet High Level Disinfection (HLD) standards as defined by the Florida Department of Environmental Protection (FDEP). The proposed expansion is estimated at $53 million construction cost and includes construction of a new filter feed pump station, additional filters, chemical storage and feed, chlorine contact basins, reclaimed water pump station, electrical power distribution and requisite back-up emergency power. Additional elements include integration of existing/aging infrastructure with proposed infrastructure, maintenance of operations during extensive electrical/structural/process tie-in, design process to handle wide-ranging operating conditions from startup to buildout, and coordination between BCWWS operations and engineering teams and eight subconsultants working on various elements.

Miami-Dade Pump Station Improvement Program, Task 1, Miami-Dade, Florida

Project Engineer. Responsible for assessing and evaluating the condition of existing electrical equipment in sewage lift stations. Electrical equipment starting at the utility service entrance, onto the pump control panels (pump motor controllers, well level sensing instruments, telemetry panels) and ending at the electric pump motors.

Concentrate Recovery Pilot Plant Membrane Skid, Sawgrass Water Treatment Plant, Sunrise, Florida

Field Engineer. Developed electrical plans for the temporary power supply, installation and operation of a cost effective alternative water supply Experimental Pilot Study Program. Also provided electrical design support to the team responsible for the Reverse Osmosis (RO) process of the Pilot Plant. Provided onsite troubleshooting and startup services to onsite pilot plant engineer and operator for the electrical portions of the skid mounted plant's chemical metering pumps, transfer pumps, Clean-In-Place (CIP) cartridge filter, 1st and 2nd stage RO pressure vessels and in-line 1500W heating element used for the CIP filter.

SCADA (I&C) Extension of Staff, South Florida Water Management District, Palm Beach County, Florida

Project Manager. In this 12-month assignment performs work associated with installation contract deliverables, SCADA integration, and site inspection. This includes reviewing design documents and drawings for upcoming projects, performing field inspections of SCADA related components during construction of District projects, verifying conformity to drawings and specifications, managing field installation of RTUs and peripheral components, performing system administration functions, managing appropriate computer

resources to support information needs within the SCADA Design and Installation Unit, and research and development of instrumentation and other SCADA components in laboratory.

Grand Coulee SCADA Replacement, US Bureau of Reclamation, Grand Coulee, Washington

Design Engineer. Responsible for the preparation of installation drawings for the replacement of existing legacy type RTUs (Remote Terminal Units) at the Grand Coulee Hydro-electric Dam with the more modern Generic Data Acquisition and Control System (GDACS). Duties for the preparation of installation drawings for the power circuit-breaker DC controls and protective relaying components of 11.95kV and 115kV switchyards which distribute power from hydro-electric power generation units.

Department-Wide Instrumentation, Control and Computer Systems Program of Water and Wastewater Services, Detroit Water and Sewerage Department, Detroit, Michigan

Field Engineer. Provided onsite design and construction management support. Assisted in the retrofitting of an 859-Million Gallon per Day (MGD) wastewater treatment plant computer control system, providing a new department-wide SCADA system that enabled remote monitoring and control of the treated water system (TWTS), wastewater collection system (WWCS) and storm system. Detailed design and construction of a plant-wide Distributed Control System (DCS).

Experience Summary

Tonya has over 20 years of experience with environmental and water resources engineering and utility management consulting, including asset management. She has served public utilities and state agencies throughout Florida where she is known for providing creative solutions, high-quality work products, and exceptional client service. She is a frequent presenter at industry conferences and workshops; and is a published author.

Assignment

AWIA/Compliance

Education

MS Civil Engineering West Virginia University, 1997

BS, Civil Engineering, University, South Florida 1994

Registration

Professional Engineer, Florida, 2002

Experience

20 years

Joined Firm

2017

Relevant Expertise

- *Utility management consulting*
- *Asset management*
- *Compliance*

Statewide Water Conservation Performance Measurement System, Florida Department of Environmental Protection (FDEP) Office of Water Policy, Tallahassee, Florida
Project Manager. Developed a standardized statewide metric and performance measurement/improvement system. The system is used to measure the economic performance of water conservation best management practices and to measure the efficiency performance of water utilities.

Web-based Interactive Tracking Tool, St. Johns River Water Management District, Palatka, Florida
Project Manager. Designed an ArcGIS cloud mapping and database tool for utilities to target water, wastewater, and energy conservation opportunities, and track customer water-conservation compliance and program implementation. The design included utility-centric optimization routines that accounted for projected revenue losses resulting from water-use reductions and reductions in water and wastewater O&M expenses. The tool is currently being used by the City of Mt. Dora.

Marshall Street WRF ATS Replacement, Clearwater, Florida
Project Manager. Project included developing multiple design options for the replacement of two ATS units/switchboards.

Asset Management Engineering, Tampa Bay Water, Florida
Project and Client Manager. Project included updating the Agency's asset risk assessment process, setting risk-based condition assessment frequencies, providing rehabilitation/replacement modeling updates with connections to Maximo, and a migration plan to retire the Agency's applications previously used to collect and store condition assessment data by first moving historical data into Maximo.

CMOM Plan, Pinellas County, Florida
Project Manager. Project included documenting County's CMOM programs through review of existing materials and interviews with wastewater utility staff and leadership. SSO trend analyses were used to evaluate effectiveness of CMOM programs in mitigating SSO root causes for various asset types, and recommendations for strengthening programs including enhancements to ArcGIS and Maximo systems were provided. The CMOM Plan was delivered to the FDEP well ahead of the required deadline.

CMOM Program Assessment, Sarasota County, Florida
Project Manager. Project included evaluation of SSO data to identify SSO root causes for various asset types, an assessment of County's existing CMOM programs, business process mapping, recommendations for strengthening programs including enhancements to ArcGIS and Maximo systems, and a roadmap for implementing recommendations.

State Expenditure Plan, Gulf Consortium, Florida
Project Engineer. Performed 30% engineering reviews and developed project descriptions for septic-to-sewer programs throughout Florida's Gulf Coast.

Florida's 23 Gulf Coast counties formed the Gulf Consortium to meet requirements of the RESTORE Act to develop a State Expenditure Plan for economic and environmental recovery of the Gulf Coast in Florida following the Deepwater Horizon oil spill.

Odor Control Improvements at Stonecrest WWTF, Marion County Utilities, Ocala, Florida
Project Manager. As owner's advisor, developed design criteria package for treatment unit covers and odor control equipment. The odor control equipment component also included performance specifications.

Development of Asset Management System, Florida Rural Water Association (FRWA), Statewide
Project Manager and Subject Matter Expert. Designed an asset management system with interoperability with EPA CUPPS, Trimble, ArcGIS Online, and an ESRI-alternative asset-management web application. Project included development of a standardized ArcGIS inventory geodatabase with water, wastewater, and reclaimed water feature datasets which included non-spatial asset classes; design of a cloud application for collecting and managing asset inventories, work-order management; cloud computing of asset end of life and R&R projections with risk-based prioritization. User groups include FRWA circuit riders and their member utilities. The project was funded by FDEP's CWSRF and DWSRF programs through FRWA and the resulting cloud tool is being implemented by utilities across Florida.

Stormwater Asset Management Plan – Phase I, City of Largo, Florida
Project Manager and Subject Matter Expert. Developed the City of Largo's stormwater asset management geodatabase and condition-assessment protocol. Led condition assessments of assets. Project also included development of work activities such as annual NPDES inspections for use by Streets and Stormwater maintenance staff. The project resulted in a robust geodatabase for managing infrastructure locations and attributes; and related tables for collecting, managing, and evaluating predictive, preventative, and corrective maintenance data. After populating the geodatabase with existing historical data, published the database on ArcGIS Online so that non-GIS City personnel could view and edit the data. Provided a Largo-specific ArcGIS Online user's manual and training for City maintenance and engineering staff; and management.

Stormwater Management Plan, City of Largo, Florida
Project Manager. Updated City's comprehensive Stormwater Management Plan per its NPDES MS4 permit.

Tampa's Lowry Park Zoo Water Resources Master Plan, City of Tampa, Florida
Project Manager and Subject Matter Expert. Developed an integrated Water Resource Master Plan for all phases of Lowry Park Zoo (Old Zoo, Wallaroo, and Africa). The plan recommended procedures to maximize efficiency of Zoo's storm and industrial wastewater operations and included conceptual designs of stormwater recharge and reuse projects in Old Zoo that would minimize pollutant loading to Hamilton Creek, an impaired waterbody for fecal coliform.

Tampa's Lowry Park Zoo Africa Basin Stormwater System Assessment, City of Tampa, Florida
Project Manager. Performed an assessment of Zoo's stormwater infrastructure in the zoo's Africa basin and evaluated stormwater management practices to identify root causes of stormwater system performance issues. Developed an ArcGIS geodatabase which was published on ArcGIS Online to be consumed by the ArcGIS Collector App in support of field data collection.

Africa Basin Inlet Retrofit Program, Lowry Park Zoo, Tampa, Florida
Project Manager. Developed engineered solutions to improve stormwater system performance and reduce pollutant loadings to the Hillsborough River.

Verna Raw Water Main, City of Sarasota Utilities, Sarasota, Florida
Project Manager. Developed a condition assessment project for a 17-mile DIP raw water main. Project included evaluating corrosion-control strategies to extend the service life of the pipeline.

Lift Station 89, City of Sarasota Utilities, Sarasota, Florida
Project Manager. Reviewed preventative and corrective maintenance reports for lift-station and identified appropriate corrective measures that resulted in significant cost savings to the City. Managed the design phase of the project.

Experience Summary

Dr. Gregg Jones has 34 years of experience in numerous water resource disciplines including hydrogeology, hydrology, water quality, geochemistry, and water supply and water conservation planning. His diverse public and private-sector experience ranges from hands-on technical work to high-level water policy development to the oversight of large technical departments. He has excellent written, verbal, and public communication skills and specializes in presenting complex technical information to non-technical audiences. He is a recognized expert in karst geology and spring systems of the southeastern U.S. and has extensive experience in groundwater-quality monitoring and analysis.

Assignment

Hydrogeology

Education

PhD, Geochemistry, University of South Florida

MS, Hydrogeology, Geophysics, University of South Florida

BS, Geology, Florida Atlantic University

Registration

Professional Geologist, Florida

Experience

34 Years

Joined Firm

2018

Relevant Expertise

- *Hydrogeology*
- *Hydrology*
- *Water quality*
- *Water supply*
- *Water conservation*

Development of Saltwater Intrusion Minimum Aquifer Levels, Northwest Florida Water Management District, Havana, Florida

Water Resources Technical Director. Developed strategies to minimize the impact of saltwater intrusion in the Floridan aquifer in the western portion of the Florida Panhandle. The project was a five-year effort divided into three phases. Monitor well construction and testing to characterize aquifer hydraulic characteristics and water quality, construction of sophisticated regional groundwater flow and solute transport models to predict how current and projected groundwater withdrawals will affect the movement of saltwater in the Floridan aquifer and use of the results of the modeling to maximize groundwater withdrawals while minimizing the inland movement of saltwater in the aquifer.

Water Supply Plan, Withlacoochee Regional Water Supply Authority, Lecanto, Florida

Water Resources Technical Director. Developed the Authority's 2015-2035 Water Supply Plan. A complex series of tasks was required to complete the plan including 1) population and water demand projections, 2) assessment of the quantity of water to be conserved or made available through conservation, reclaimed water, surface water, seawater, and groundwater, 3) modeling to delineate areas where Upper and Lower Floridan aquifer wellfields could be developed, 4) development of water supply options to use reclaimed water, river water, desalinated seawater, and groundwater, and 5) development of planning-level estimates of required infrastructure, costs, customer bases, and permitting requirements for the water supply options.

Water Resource Assessment, Suwannee River Water Management District, Live Oak, Florida

Water Resources Technical Director. Assessed the effects of projected groundwater and surface water withdrawals on proposed and established minimum flows and levels for lakes, wetlands, streams, and springs. The assessment included an evaluation of all potential sources in the District that could provide water for various users and the development of project concepts to utilize those sources.

North Area Water Supply Environmental Impact Statement, US Bureau of Reclamation, Bismarck, North Dakota

Water Resources Technical Director. Assessed the ground and surface water resources of northwest North Dakota and conducted an alternatives analysis to determine the water supply potential of numerous aquifers and the Souris River. Assessed the reliability of the river to supply water to recharge water supply aquifers in the region and completed a feasibility analysis that determined the costs of the recharge facilities.

Upper Santa Fe River Basin Water Resources Assessment, Suwannee River Water Management District, Live Oak, Florida

Program Manager. Led a team of hydrogeologists and engineers that used sophisticated statistical analyses and groundwater flow modeling to assess how regional groundwater withdrawals were impacting lakes, wetlands, streams, and springs in the Upper Santa Fe River Basin.

General Electric vs. the Saratoga County Water Authority, Saratoga County, Saratoga County, New York

Project Role. As part of litigation over PCB contamination of the Hudson River, provided extensive analyses on the availability and quality of Hudson River water and the factors involved in determining the water supply withdrawal location and distribution system configuration. Provided expert witness testimony during a deposition.

Recovery Strategy for the Northern Tampa Bay and Southern Water Use Caution Areas, Southwest Florida Water Management District, Brooksville, Florida

Department Director. As director of the Water Resource Assessment Department, Dr. Jones worked as part of the executive team at the District to formulate recovery strategies for areas where excessive groundwater withdrawals had caused rivers and springs to cease flowing, lakes to dry up, and saltwater to intrude into coastal aquifers. The strategies involved regulations to roll back groundwater withdrawals; incentives such as funding to develop surface water and reclaimed water to replace groundwater, and conservation to increase the efficiency of water use by agricultural and public supply users. Dr. Jones conducted extensive outreach to educate groups of stakeholders on the need for the recovery strategy and to solicit their input on proposed solutions. He presented regularly to local governments, elected officials, and the District's Governing Board to brief them on the status of the effort.

Evaluation of Saltwater Intrusion in Aquifers in the Coastal Regions of Florida, Georgia, South Carolina, North Carolina and Virginia, Northwest Florida Water Management District, Havana, Florida

Program Manager. As manager of the Water Quality Monitoring and Analysis Program at the District, led efforts to determine the cause of rapidly increasing nitrate levels in five major spring and river systems. Responsible for the establishment of river sampling stations and monitor well networks, analysis and mapping of aquifer flow systems, sampling of rivers, springs and wells for a comprehensive list of water quality parameters, analysis of water quality trends and relationships, inventories of nitrate sources and loading assessments in the recharge area, identification of travel times and nitrate sources using isotopic ratios, and development of strategies to reduce nitrate levels.

Development of an Untreated Aquifer Storage and Recovery (ASR) System, City of North Port, Florida

Water Resources Technical Director. Working with a team of hydrogeologists and engineers to develop an untreated ASR system to provide potable water to residents of the City of North Port. The system, which is currently in the cycle testing phase, is designed to capture urban stormwater runoff in the wet season, provide only minimal filtration, followed by injection and storage in a saline portion of the Floridan aquifer. The project involves water use and Underground Injection Control (UIC) permitting, monitor and ASR well design and construction, and cycle testing oversight

Development of an Aquifer Recharge System, Confidential Client, Southeast Orlando, Florida

Water Resources Technical Director. Developing an aquifer recharge system that will be used to supply a city-size development with water for landscape irrigation. The development is located in the Central Florida Water Initiative area where permits for new quantities of groundwater, especially for landscape irrigation, are very difficult to obtain. The team must develop an innovative system that will capture and inject minimally treated surface water into the upper Floridan aquifer during the wet season and recover it for irrigation use during the dry season. The project is currently in the permitting phase and will eventually require groundwater modeling, monitor and production well construction and testing, and cycle testing.

Experience Summary

Brice Wimsatt has experience with the State Revolving Fund (SRF) Davis Bacon compliance support, environmental sampling and remediation. Brice also has experience with wastewater sampling and characterization laboratory analysis.

Assignment

Hydrogeology

Education

B.S. Geology, Florida Atlantic University, Boca Raton, FL

Certifications

OSHA 40-hr HAZWOPER certification

OSHA 8-Hour HAZWOPER Refresher Training

First Aid & CPR Certified

MSHA Certification

OSHA 8-Hour Site Supervisor Certification

Construction Management Certification

Experience

4 years

Joined Firm

2017

Relevant Expertise

- *Sedimentary geology*
- *Contaminant remediation*
- *Drilling and borehole-logging*

Environmental Services

Phase I and II Environmental Site Assessments (ESAs), DR Horton, within Florida

Geologist. Conducted environmental site evaluations to determine potential environmental liabilities associated with property acquisitions and divestitures, researched and reviewed the site's historical and regulatory background. Remedial field operations including groundwater and soil sampling.

Groundwater Investigation, XL Environmental Inc., Orlando, Florida

Geologist. Remedial field operations including well installation, soil and groundwater sampling. Installation of data loggers and collecting data.

City of Sanford Sewer Rehabilitation, Florida

Geologist. Conducted site inspections and reports. Reviewed before and after sewer lining videos, looking for irregularities in the lining. Preparing quarterly reports.

Albertsons Remediation, Clearwater, Florida

Geologist. Remedial field operation including soil sampling.

Confidential Client, Florida

Geologist. Conducted pilot to remove 1,4- Dioxane from municipality water supply. Responsibilities included pilot construction, water sampling, data analysis, daily operations oversite, peroxide residual testing and borehole-logging of an existing well.

Remodel Regulatory Compliance and Permitting, Confidential Client, Nationwide

Compliance Auditor. The program was established to provide operations support to a nationwide retailer for their Store Remodel programs in a 17 State region across the US. Construction site walk-throughs are completed to assess health and safety work practices and ensure environmental compliance.

SRF Compliance Support, Water Looping Project, Orange City, Florida

Geologist. Conducted site inspections, reports and labor interviews to ensure payroll was in compliance with Davis Bacon.

Davis Bacon Compliance, Pipe Bursting, Orange County, Florida

Responsible for overseeing and submitting Contractor and Subcontractor payrolls associated with Davis Bacon. Conducted site inspections, reports and labor interviews.

Florida City Gas, Hialeah, Florida

Geologist. Remedial field operation including stockpile soil sampling.

North District Wastewater Treatment Plant (NDWWTP) Chlorine and Toxicity Study, Miami Dade Water and Sewer Department (MDWASD), Miami, Florida

Geologist. The North District Wastewater Treatment Plant (NDWWTP) is one of three regional treatment facilities that treat the wastewater collected from Miami-Dade County. The plant has a permit-ted surface water discharge limit of 100 million gallons per day (MGD) and a current annual average flow of approximately 80 MGD. The facility operates under a Florida Domestic Wastewater Facility Permit issued by the Florida Department of Environmental Protection (FDEP). Testing will be performed to evaluate the minimum and maximum TRC limits at the chlorine monitoring location that will provide the disinfection requirements for fecal coliform and enterococci while maintaining whole effluent toxicity limits.

Confidential Project, BAE Systems, Tennessee

Geologist. Performed onsite performance testing on WWTP upgrades at the facility, which included laboratory testing and conducting a pilot study.

Lift station 53 Rehabilitations, West Palm Beach

Geologist. Reviewed shop drawings.

Collection System Odor and Corrosion Study, Orange County Utilities, Orlando, Florida

Geologist. The project includes investigation of the main contributors to wastewater collection system odor and corrosion through desktop sulfide generation modeling and to evaluate the effectiveness of treatment options. Brice assisted in field sampling efforts of the wastewater collection system used in model calibration.

Experience Summary

Mr. Campos is a business consultant working with utility managers to find the most effective ways to manage their utility. He has over 19 years of experience in environmental and business consulting and data management with water and sewer utilities. Mr. Campos has worked with municipal and federal clients to develop solutions to their business problems through information system development, program development, organizational change and/or process improvement. Mr. Campos has experience implementing and applying various utility management frameworks, including asset management, CMOM and Effective Utility Management. Mr. Campos leads Brown and Caldwell's Asset Management Community of Practice, which is focused on optimizing our clients' decision-making throughout the lifecycle of an asset by analyzing existing business practices and developing plans for improvement.

Assignment

Asset Management

Education

B.S. Environmental Engineering, Massachusetts Institute of Technology, Cambridge, Massachusetts

Registration

Professional Engineer

North Carolina, 036773, 2010

Experience

19 years

Joined Firm

2006

Relevant Expertise

- *Asset Management*
- *Utility Management Consulting*
- *Business Process Improvement*
- *CMOM*
- *Data Management*
- *Business Case Evaluation*

Asset Management Program, City of West Palm Beach, Florida

Project Manager. Conducted asset management program evaluation (AMPE) and effective utility management (EUM) assessment to identify key improvement areas for strengthening the City's program. Developed an action plan that outlined the strategy for phased implementation of improvement activities. Led implementation of the action plan, including development of a replacement planning model, business case evaluation framework, gravity sewer & force main criticality models, and a prioritized comprehensive CIP. In anticipation of the City's implementation of Infor EAM and Oracle CIS, led documentation of work management & customer service business processes.

Asset Management Plan, Timpanogos Special Service District, Utah

Asset Management Lead. Timpanogos Special Service District (TSSD) needed support to implement an asset management program to guide and prioritize future maintenance and capital expenditures. Assisted with developing system-wide organizational objectives and level of service criteria. Conducted likelihood and consequence of failure evaluations for the collection system and wastewater treatment plants. Coordinated desktop and visual condition assessment of critical assets. Identified Rehabilitation and Replacement (R/R) needs for TSSD based on asset condition and consequence of failure. Developed a prioritized Capital Improvement Plan (CIP) to address known risks and R/R needs within the plant. Conducted an R/R Assessment to evaluate anticipated wastewater funding needs over the next thirty years.

WWTP Condition Assessment and Asset Management Based CIP, Central Valley Water Reclamation Facility, Utah

Asset Management Lead. BC performed a condition assessment of the Central Valley Water Reclamation Facility (CVWRF) and applied asset management principles to rank and prioritize identified R/R projects based on criticality, condition, and consequence of failure. BC collaborated with management and operations staff to plan and perform visual condition assessment of the CVWRF unit processes. BC conducted interviews with operations staff to help identify problem and high-risk areas and to guide the field surveys and data collection efforts. Following the assessment, BC identified potential R/R projects that would positively influence the desired level of service for the identified major asset categories. These projects were then grouped for sensible delivery as part of a short-term and long-term CIP.

WWTP Condition Assessment, City of Roseville, California

Asset Management Lead. Conducted a risk based prioritization of Dry Creek and Pleasant Grove Treatment Plant in support of prioritizing condition

assessment activities and developing a rehabilitation or replacement plan for the next 20 years.

WWTP & Lift Station Rehab/Replacement Plan, City of West Palm Beach, Florida

Asset Management Lead. As part of the condition assessment of the City's critical lift stations and WWTP, lead development of a Rehab/Replacement plan for use by the City in their capital program. Facilitated the use of mobile tablet technology for data collection for ease of post-assessment data processing.

Saluda River Basins SR03, SR10, and SR12 SSES and Rehabilitation, Columbia, South Carolina

Data Manager. Supported data management efforts for condition assessment of the gravity sewers in three sewer sub-basins for the City of Columbia. Field work included MACP inspections of over 700 manholes, smoke testing nearly 200,000 feet of gravity sewer, and CCTV inspections of 100,000 feet of sewer line. The results of the inspections were used to identify and prioritize repairs to aging infrastructure and reduce rain induced inflow and infiltration.

Collection System Asset Inventory and Condition Assessment, City of Columbia, South Carolina

Data Manager. Supported efforts for the condition assessment and data management of the City's manholes on sewer lines 15-inches and larger. Included ensuring over 2,400 manhole inspections were MACP compliant, developing a customized defect coding and prioritization procedure, and incorporating survey grade information for use in developing a hydraulic model of the City's trunk sewer system. Information collected during this program was used to prioritize rehabilitation and set capital project budgets.

Asset Management Program, Largo, Florida

Business Consultant. Conducted Asset Management Program Evaluation (AMPE) to identify key improvement areas for strengthening City's program. Based on results of AMPE, developed work plan that outlined strategy for phased implementation of improvement activities. Developed Asset Plan templates for several asset classes.

Asset Management Program Implementation, City of Asheville, North Carolina

Project Engineer. Assisted in implementation of asset management program that included development of asset classes and asset inventory for integration into asset management system, establishing performance measures and implementing CMMS. Provided oversight during implementation of CMMS as part of client's asset management program. Provided support and oversight to client when dealing with CMMS Implementation consultant. Ensured that all products developed under the asset management program were incorporated into CMMS.

CMOM Program Assessment, Sarasota County, Florida

Business Consultant. Assessed the County's existing CMOM activities/processes for its collection system against program elements of an effective CMOM Program. Conducted interviews with County staff and evaluated the County's sewer overflow and work order data to identify patterns in the root causes of sewer overflows. Identified opportunities for improvement and developed a roadmap to implement the improvements.

Sanitary Sewer Management Systems Improvements, City of Largo, Florida

Business Analyst. Conducted interviews to document MOM and concurrency/ capacity management programs. Developed business process maps based on client interviews. Evaluated ability of current information management practices and systems to meet consent order requirements. Developed business processes into user requirements for a Work & Asset Management System.

Water Main, Gravity Sewer & Force Main Criticality Assessments, City of West Palm Beach, Florida

Task Manager. As part of the development of the City's Water & Sewer Master Plan, led the development of the GIS-based water main, gravity sewer & force main criticality assessments. The criticality assessments prioritized the City's pipe assets for condition assessment and rehabilitation/replacement by identifying pipes that potentially posed an elevated risk to the City with regard to likelihood and consequence of failure.

Experience Summary

Bob Hrabovsky is a professional engineer with experience in management, structural design, and construction of public utility and public works facilities. He provided structural engineering and design for everything from water and wastewater treatment plants and infrastructure to solid waste facilities and roadway construction. Over the last couple of years, Mr. Hrabovsky has served as Structural Engineer of Record on numerous large-scale Wastewater Treatment Plants and Everglades Restoration Program projects.

Assignment

Structural

Education

B.S., Civil Engineering, University of Pittsburgh (Cum Laude)

Registration

PE 43312, Florida, 1990

Experience

35 years

Joined Firm

1996

Relevant Expertise:

- *Structural engineering associated solid waste projects, including landfill closure and transfer and maintenance facilities.*
- *Structural engineer of record for numerous Water Resources and Everglades Restoration projects.*
- *Structural engineer of record for wastewater and water treatment plant improvements.*
- *Engineer of Record for infrastructure projects.*
- *Construction Manager for numerous wastewater treatment plants*

Big Coppitt Wastewater Treatment Plant, Florida Keys Aqueduct Authority, Big Coppitt Key, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction for the $11 million greenfield 0.3 mgd average daily flow advanced water quality wastewater treatment plant on Big Coppitt Key for the Florida for the Florida Keys Aqueduct Authority. This plant employs sequencing batch reactor technology and nitrogen removal tertiary filtration along with on-site reclaimed water production and storage.

North District WWTP (NDWWTP) Headworks Upgrades, Miami-Dade Water and Sewer Department, Florida

Structural Reviewer. Responsible for the structural design review of the headworks renovation including replacement of old bar screens, compacting and sludge degritting equipment, electrical gear, ventilation and odor control facilities.

NDWWTP Disinfection System Upgrades, MDWASD, Miami, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services during conversion of the disinfection system at the NDWWTP from chlorine gas to bulk sodium hypochlorite. The project also includes the addition of a new Electrical/Control Room Annex Building at a finished floor elevation of 18.5 NGVD to house critical electrical and instrumentation equipment to meet SLR requirements.

Sawgrass WWTP Headworks Improvements City of Sunrise, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction of the rehabilitation of the screenings and grit facility (Preliminary Treatment structure), splitter box and slab-on-grade for a new Bio-Trickling Filter Odor Control System.

Sawgrass WWTP, High Level Disinfection System, City of Sunrise, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services for the facilities planning development of a for a 4-mgd AADF (expandable to 8-mgd AADF) High Level Disinfection Facility at the Sawgrass WWTP. The detailed design of the first phase is currently underway

Springtree WWTP Headworks Design, City of Sunrise, Sunrise, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services for the plant expansion.

LS 114, 123, 125, 132 and 148 Rehab, City of Sunrise, Sunrise, Florida

Structural Engineer of Record. Responsible for the structural design for the rehabilitation of lift stations.

Lift Station 5 Replacement, City of Orlando, FL

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction of new $6.9 million 20-MGD submersible type pump station on the empty City owned land parcel adjacent to the existing lift station which will be demolished. The new lift station will be housed in a building with three rooms including a ventilated and screened pump room, an air-conditioned room for electrical and controls and a ventilated room for generator. Also included are a foundation for the fuel tank and a foundation for the odor control system.

Wet Weather Monitoring and Pumping System, City of Largo, FL

Structural Engineer of Record. Responsible for the structural design and office engineering during construction of an enhanced collection system and lift station replacement project $1.1 million Final Design (4 Lift Station Reconstruction, 2 Lift Station Rehabilitations and approximately 60,000 linear feet of Force Main), Bid Phase Services and Limited Construction Phase Services.

Water Conserv II WRF Master Pump Station and Flow Equalization, City of Orlando, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction of new $1.1 million 60-MGD wet-pit/dry-pit master pump station, new 3.5 MG circular pre-stressed concrete ground storage tank for flow equalization, conversion of existing plant master pump station into new equalization pump station and new influent junction box routing flow from influent sewer to new pump station.

Indian Head Sewage Treatment Plant Design/Build, Naval Facilities Engineering Command (NAVFAC), The Haskell Co., Indian Head, Maryland

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction of new $13.9 million 0.5-mgd Enhanced Nutrient Removal (ENR) sewage treatment plant (STP) for the Navy. The new STP replaced similarly-sized existing STP that could not be cost effectively upgraded to achieve Chesapeake Bay nutrient requirements of 4 mg/L TN and 0.3 mg/L TP. The new STP included headworks (screening and grit removal), influent pump station, continuous inflow SBRs, upflow denite filters, UV disinfection, effluent aeration tank, and administration building.

Existing Wastewater Treatment Plant Upgrades and Expansion, North Port, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction for the $23 million 7.0 mgd upgrade to a reclaimed water plant that will now feature deep bed tertiary filters with control/blower/electrical building, clearwell, mudwell, a second chlorine contact basin, 2.5 mg storage tank, effluent and internal pumping systems. Additional upgrades included revising course bubble aeration system to a multistage BNR system with additional tankage, a fourth clarifier and expansion of the pretreatment and other ancillary systems throughout the plant.

Wastewater Treatment Plant No. 3, Winter Haven, Florida

Structural Engineer of Record. Responsible for the structural design and office engineering services during construction for the $15.5 million 7.5 mgd upgrade to a reclaimed water plant that will now feature automatic backwash filters, a new chlorine contact basin, conversion of the existing chlorine contact basin into a dechlorination/reaeration basin, effluent and internal pumping systems. Additional upgrades included revising course bubble aeration system to a four-stage Bardenpho process within the existing tankage. Design included significant additions to the electrical and ancillary systems throughout the plant including three electrical buildings and two generator systems. This was a Construction Manager at Risk project with The Haskell Company.

Mason Farm WWTP Upgrade and Expansion, Orange Water and Sewer Authority (OWASA), Chapel Hill, North Carolina

Structural Engineer of Record for Filter Complex. Responsible for the structural design and office engineering services during construction for the filter complex structure that was part of a $40 million 14.5 mgd upgrade. Facility became a reclaimed water plant that will now feature deep bed tertiary filters, UV disinfection, post aeration, as well as combination gravity and pumped discharges and a river outfall structure. The associated building for this complex included blowers pumping, electrical room and storage area.
pumps.

Melissa M. Jauregui

Experience Summary

Ms. Jauregui is well trained in techniques of water resources engineering, civil and sustainable engineering principles, design reviews, pollution control systems, data analysis and research, permitting, report preparation, and leadership. Competent in Microsoft Office 2013, GIS, and AutoCAD. Furthermore, Ms. Jauregui has recently worked the PMCM Team as a Design Engineer assisting MDWASD with the implementation of the Consent Decree Program. Ms. Jauregui has extensive knowledge on the Miami Dade-EPA Consent Decree Project deliverables.

Assignment

Permitting

Education

MS Environmental Engineering, Florida International University,

BS Environmental Engineering, Florida International University,

Registration

Professional Engineer, FL

Experience

8 years

Joined Firm

2016

Relevant Expertise

- *Design reviews*
- *Water resources*
- *Consent Decree*

MDWASD's of Wastewater Treatment Plants (WWTP) Improvement Miami-Dade, Florida

Project Management.

The Consent Decree requires Miami-Dade County to improve their three (3) main Wastewater Treatment Plants, North District WWTP, Central District WWTP and South District WWTP. These plants combined flow is approximately 300 Million Gallons per day (MGD). Their current conditions are proposing a risk to their daily operations. Projects within the plants are challenging due to the complexity of the process and equipment. The PMCM team is managing over 52 Projects within the
plants under the frame of the Consent Decree. Ms. Jauregui works as an Assistant Project Manager for the WWTP improvements under the frame of the USEPA Consent Decree (CD). Ms. Jauregui is responsible for complex design reviews, invoicing reviews, design deliverables tracking, and project progress control. She maintains constant communication between the client and the design consultant firms.

MDWASD's Installation of 60-Inch Force Main from PS 0536 to SW 88th Street Basis of Design Report (BODR) Miami, Florida

Design Engineer. Ms. Jauregui worked as a Design Engineer for the BODR. According to the USEPA CD Miami Dade is required to install a 60Inch FM from PS 0536 to SW 88th Street to increase the hydraulic flow in the system and reduce pressure differential between PS 0536 and PS 0559. The BODR analyzed three (3) different alternatives by comparing construction cost, public impact, schedule, pipe material, constructability, hydraulic impact, traffic impact, maintenance and accessibility, permitting, and easement acquisition. Hydraulic modeling was prepared to confirm BODR results. Recommendation were provided and approved by MDWASD.

Miami-Dade Water and Sewer Department (MDWASD) $91M Program and Construction Management (PMCM) for the Wastewater System Priority Projects Miami, Florida

Project Engineer. The PMCM Team was selected by the Miami Dade Water and Sewer Department (MDWASD) to provide Program and Construction Management Services related to the Wastewater System Priority Projects. Services provided include, but are not limited to, program management, construction management, development coordination, public outreach, engineering analysis, hydraulic modeling, scheduling, cost estimates, inspections and document control. Ms. Jauregui is worked as a Junior Engineer for the PMCM Team within the Wastewater Collection and Transmission System (WCTS) Task. The WCTS Task is assisting the Department with the coordination and management of ninety-three (93) Force Main and Pump Station Projects, from conception to closure, including the following phases: Engineering Design, Permitting, Procurement, Construction, and Certification.

Replacement of Water Mains and Service Conversions in the Shenandoah Area Phase B, Miami, Florida

Project Engineer. The project consists in the replacement of the existing undersize and deteriorated water mains in order to improve system pressure and provide fire flow protection, and for water service conversions (transfer of services from the rear to the front of the properties) in the Shenandoah Area (Phase B) in the City of Miami. Ms. Jauregui is the Project Manager for the Utility coordination, baseline selection and AutoCAD file production including but not limited to Base map, individual drawing sheets displaying plan and profile of the existing conditions.

Florida Department of Environmental Protection FDEP, City of Coral Gables Consent Order, Coral Gables, Florida

Project Engineer. Pump Station Improvement for about twenty-two (22) lift stations within the City of Coral gables, including I/I and lateral repairs. Responsible for reviewing and conduct compliance inspections for project completion. Responsible for conducting coordination meetings to review CO status and upcoming deliverables.

Florida Department of Environmental Protection FDEP. USEPA Consent Decree, Miami, Florida

Project Engineer. Consent Decree requires Miami-Dade to develop, submit, finalize, and implement plans for the continued improvement of its WCTS and WWTPs to eliminate, reduce, prevent or otherwise control SSOs; to correct effluent limit violations; and to properly manage, operate and maintain its WCTS and WW TP. Ms. Jauregui was the Engineer responsible for monitoring Miami-Dade's compliance with the terms of FDEP Consent Order OGC No.03- 1376(A), conduct compliance evaluation inspections at domestic wastewater treatment plants in Miami-Dade County, review wastewater facility permits and corresponding engineering plans and specifications, generate Inspection Reports, Non-Compliance Letters, Warning Letters, Consent Orders, and Case Closeout Forms per Florida State Statutes and Rules, conduct industrial wastewater/storm water compliance evaluation inspections, track and manage compliance/enforcement activities pertaining to Miami-Dade County domestic wastewater systems, review monthly Discharge Monitoring Reports "DMRs," Whole Effluent Toxicity Tests, and Groundwater monitoring reports, document and track sanitary sewer overflow and spill occurrences in Miami-Dade County. Joint efforts and collaborations working alongside delegated agency, Miami-PER training Dade County DERM.

Florida International University FIU – Applied Research Center Miami, Florida

Project Engineer. The DOE-FIU Science and Technology Workforce Development Program is an innovative program between the U.S. Department of Energy's Office of Environmental Management (DOE-EM) and Florida International University's Applied Research Center designed to create a "pipeline" of minority engineers specifically trained and mentored to enter the Department of Energy workforce in technical areas of need. Ms. Jauregui worked on uranium remediation of the 200 Area at the Hanford site in Washington State specifically on the vadose zone. Worked in radioactive lab and utilized a Kinetic Phosphorescence Analyzer (KPA) to assess uranium levels in water samples, created technical report of findings and presented data to researchers, scientists and DOE personnel. Ms. Jauregui work on uranium absorption was chosen to be presented at the Waste Management conference in Phoenix, AZ.

Experience Summary

Ms. Redmond is an environmental professional in natural resource consulting and regulation who specializes in managing complex projects relying on consensus-building approaches to maximize the end results. She is an authority on environmental regulation spanning the areas of watershed-scale regulatory and planning solutions, all aspects of wetland mitigation, watershed-level cumulative impacts and habitat assessment, ecosystem services assessment, and frameworks for restoration planning. Ann is BC's Subject Matter Expert for ecosystem restoration, Section 404 permitting and wetlands/habitat mitigation.

Assignment

Environmental Ecology

Education

M.S., Biological Sciences/ Ecology, Florida State University, 1984

B.S., Biological Sciences/ Botany, Florida State University, 1977

Continuing Education and Certifications

Certified Environmental Professional (CEP), National Association of Environmental Professionals, 2007

Environmental Assessment & Statement of Findings for Corps of Engineers regulatory decision documents Workshop, U.S. ACOE-Jacksonville District, 2001

Environmental Enforcement Negotiation: The Basics. National Enforcement Training Institute, U.S.E.P.A. Tallahassee, FL, 1996

Hydrogeomorphic Wetland Functional Assessment Training, US Environmental Protection Agency, 1995

Habitat Evaluation Procedure Certification, US Fish and Wildlife Service, 1989

Experience

38 years

Joined Firm

2011

Relevant Expertise

- *Ecosystem Restoration*
- *Natural Resource and Ecosystem Services Assessments*
- *Watershed Planning*
- *Project Strategy*
- *Mitigation and Species Banking*
- *Environmental Permitting*
- *Interagency Team Permitting*
- *Environmental Assessment*

North Lake Okeechobee Nutrient Reduction Planning, Confidential Client, FL

CSM/PM/Regulatory Lead. Manage target basin, treatment technology and site selection; feasibility study for phosphorus and nitrogen reduction; and strategy planning toward development of watershed-scale nutrient reduction north of Lake Okeechobee. Managed client meetings, soils sampling, and Phase I ESA assessment.

Natural Recovery Evaluation, Confidential Client, OH

Technical Lead. Work with the client team to document and validate the natural recovery process occurring at a RCRA site to support development of a closure plan strategy to enhance that process, develop the site for future ecological and recreational use, and build support with local communities and state regulators. Initial qualitative site assessment completed.

Mitigation Bank Permitting, Confidential Client, Coastal AK

CSM/Regulatory Analyst. Working with the local permitting team to provide direction on the mitigation credit aspects of the project due to our knowledge of the new functional assessment method in Anchorage District. Participated in agency field review of wetlands delineation and quality, managed development of credits assessment, drafted and collaborated on mitigation bank prospectus documentation and agency negotiations.

In-lieu-fee Mitigation Permitting, Confidential Client, Coastal AK

CSM/Regulatory Analyst. Worked with the local permitting team to provide direction on the mitigation credit aspects of the project due to our knowledge of the new functional assessment method in Anchorage District. Participated in agency field review of wetlands delineation and quality, managed development of credits assessment, drafted and collaborated on in-lieu-fee documentation.

Subject Matter Expert/Quality Assurance Reviews, Various Clients, National

Regulatory Analyst/ Restoration Ecologist. Provide expert advice and quality assurance reviews of our clients' restoration projects, including planting plans, species lists, site conditions, documentation, wetland functional assessments, and mapping products.

Lakes Eva & Henry Restoration Study, City of Haines City, FL

Lead Environmental Scientist. This regional integrated water resource project is evaluating the projects proposed to develop feasible solutions for connection of Lakes Henry and Eva through wetlands rehabilitation. Specifically reviewing the option to rehydrate wetlands and/or implement upland application of nutrient-rich water from Lake Eva with ancillary benefits of alleviating flooding, increasing local ground water recharge, and improving water quality. Developed planting plan and costs.

Remediation Area Pollinator Meadow, Confidential Client, NJ

Restoration Ecologist. For a remediated area on a legacy property, worked with client to develop a 2-phase landscaping plan for a pollinator-focused wildflower meadow, including phase 2 water and woody vegetation windscreen features. This area will be integrated into Phase 3 work to address onsite NRD wetland and habitat obligations. Phase 1 plantings have been installed.

Compensatory Mitigation Program, Confidential Client, western US

Technical Lead/Regulatory Analyst. Working with a municipality to determine the extent of their potential future aquatic, wetlands and species impacts and developing a programmatic compensatory mitigation plan to provide functional offsets for future impacts.

Wetland Mitigation Compliance Monitoring – Hillsborough County, FL

CSM/Project Manager/Technical Lead. Conducted detailed field assessments, updated UMAM scoring, and performance monitoring on a 140-ac. wetland mitigation site. Provided recommendations to client regarding ongoing activities, including geo-referenced site photos, and assessments of compliance with both permit criteria and ecological goals in a detailed report.

Wetland Mitigation Compliance Strategy – Hillsborough and Pinellas Counties, FL

CSM/Project Manager/Technical Lead. Conducted field assessments and reports on the compliance status of eight wetland mitigation sites, totaling >350 ac. Provided recommendations to client regarding ongoing activities, including geo-referenced site photos, and assessments of compliance with both permit criteria and ecological goals.

Conservation Bank Assessment, Butte County, CA

Regulatory Analyst. For an agricultural client reviewed the terms and compliance status of a permitted conservation bank site in support of potential acquisition for expansion of their crop production. The specific parcels under consideration were permitted future, unimplemented phases of the bank. Our review of the baseline and ongoing monitoring reports focused on vernal pools and presence of vernal pool species. Written findings were provided.

DSAY Assessment, Confidential Client, Coastal AL, LA, MS

CSM/Regulatory Analyst. Examined Phases 1-3 early restoration projects (barrier island and marsh restorations) for the Deepwater Horizon spill for a private client to determine how the DSAY numbers had been derived. The NRDA documentation that would explain how the DSAYs had been determined was requested of, but not disclosed by, the Trustees. This initial assessment was enumerated in a Technical Memo that addressed several scenarios and several factors, including how each related to the DSAY assignments.

Mitigation Compliance Plan – Confidential Client, OK

Regulatory Analyst/Restoration Scientist. Developed a plan to address tree survival compliance issues at a stream mitigation site. Plan included an updated species list for trees and shrubs, planting plan and procedures, and management and monitoring plans. Negotiated the plan with the USACE.

Ordot Dump Closure Plan Regulatory Activities, Guam

Regulatory Analyst/Restoration Ecologist. Lead scientist for development of a channel relocation and wetland restoration and mitigation plan to accommodate the closure of a superfund landfill site. Advised project team on regulatory issues associated with obtaining USACE permits to implement the closure plan. Annual monitoring and reporting is ongoing.

Chef Menteur Mitigation Bank, Orleans Parish, LA

CSM/Project Manager/Regulatory Analyst. Assessed the long-term conservation context of this 17,000-ac. coastal marshland property, which includes a 1038 ac. mitigation bank, in relation to other local, state and federal conservation objectives. Assessed the feasibility of restoration on this subsiding wetland landform over a 20-50-year time horizon, as well as locations within the property. Performed state and federal Wetland Valuation Assessments (WVA) on the property addressing multiple potential future conditions over 50 yrs. with USGS-modeled predictions for the watershed. Worked with agencies regarding WVA assessments.

C. ANDRE RAYMAN, P.S.M., PRESIDENT
PROJECT SURVEYOR

A Higher Standard of Excellence
engenuity group inc.
ENGINEERS • SURVEYORS • GIS MAPPERS

EDUCATION

Bachelor of Science, Surveying and Mapping, University of Florida, 1988

CERTIFICATIONS

- State of Florida, Surveying and Mapping, LS #4938

AFFILIATIONS & AWARDS

- Florida Surveying and Mapping Society Palm Beach Chapter, Vice President (2006-2007), President (2007-2008)
- Florida Association of Cadastral Mappers
- American Congress on Surveying & Mapping
- Forest Hill High School Engineering Academy Adviser (2007-2012)
- FES Mentor Program at Florida Atlantic University (2011-2013)
- Palm Beach County League of Cities, Associate Member (2004-present)
- Florida Atlantic University Geomatics Engineering Advisory Committee, Executive Chair (2010-2016), Board Member (2010-present)

Mr. Rayman is a Registered Land Surveyor in the State of Florida and has over 32 years of experience in the surveying field. He is a fourth generation land surveyor and has been with Engenuity Group since 1988. He is an expert in topographic, boundary, and tree surveys as well as basemaps, right-of-way maps and sketch and descriptions. He has 3 decades of experience in data quality control / quality assurance, collection analyzation, and has used that knowledge and experience to provide our clients with a service tailored to their needs.

EXPERIENCE

City of Riviera Beach

- Right-of-way maps and parcel maps for Riviera Beach, 13th Street, 11th Street and Avenue C. (Port of Palm Beach)
- Boundary survey of City Hall
- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of West 36th Street
- Boundary Survey at 1101 W. 13th Street
- Topographic Survey of 13th Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic Survey of proposed Public Works complex
- Riviera Beach Storm water data collection for GIS
- Topographic Survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23rd Street
- Topographic Survey of utility plant for design
- Inner City Golf Youth Museum Boundary, Topographic & Tree Survey
- Topographic Survey of Ave S and 23rd St.
- Topographic Survey of W 37th St. from Ave F to Broadway
- Topographic Survey of W 37th St. from Ave H to F and Ave F from W 37th St. to W 34th St.
- Topographic Survey of W 35th St. from Ave J to H and Park Manor
- Topographic Survey of E. Industrial Way & Center Industrial Way
- Topographic Survey of W 36th & 37th St. from Ave J to H
- Boundary Survey of Timber Pine Park
- Ave J ROW abandonment replat & legals
- Boundary Survey of 1600 N Australian Ave

JENNIFER C. MALIN, P.S.M., PROJECT MANAGER

A Higher Standard of Excellence
engenuity group inc.
ENGINEERS • SURVEYORS • GIS MAPPERS

EDUCATION

Bachelor of Science, Surveying and Mapping, University of Florida, 2003

CERTIFICATIONS

- State of Florida, Surveying and Mapping, LS #6667
- Qualified Stormwater Management Inspector

AFFILIATIONS & AWARDS

- Florida Surveying and Mapping Society member since 2005 (No. 8481)

Mrs. Malin is a Registered Land Surveyor in the State of Florida with over 15 years of experience in the field. She has been working at Engenuity Group, Inc. since 2003 and has a superior understanding of surveying and mapping concerns in South Florida. She is a seasoned AutoCAD Drafter who always produces the highest quality deliverables in a timely manner. Ms. Malin is the Director of our survey department, overseeing every aspect of daily operations.

EXPERIENCE

City of Riviera Beach

- Sketch and descriptions for access easements for Utility Plant
- Topographic Survey of 13th Street (Dixie Highway to Avenue P)
- Topographic Survey of Blue Heron Blvd/Avenue P intersection
- Topographic survey of Avenue T and RC-5 Canal
- Topographic Survey of Avenue S and 23rd Street
- Dune Walkover Topographic Survey
- Underground Utility Locating and Topographic Survey for Watermain Replacement Project
- Topographic Survey Southshore Boulevard Phase III
- Topographic Survey of Big Blue Trace and Paddock Drive
- Topographic Survey of Pierson Road

Village of Wellington

Since the initial award of our continuing services contract in 1999, Engenuity Group has completed a variety and number of projects for the Village, including the following, which Ms. Malin assisted completing:

- Topographic Survey for Big Blue with Sketch and Descriptions of encroachments
- Topographic Survey for Rustic Ranches
- Topographic Survey for 50th Street South
- Topographic Survey of Fairlane Farms Road
- Topographic Survey of Flying Cow Road
- Topographic & Boundary Survey of Wellington Landings Middle School
- Establish Controls and obtain topographic data of Acme Road Driveway Connection
- Topographic Survey of 130th Ave S and 50th St S Horse Crossing
- Topographic Survey of Stribling Way & Fairlane Farms Road
- Boundary Survey, Alta Survey, Fema Certificate of Lake Wellington Professional Center

- WWTP Sketch & Description, Topographic, Boundary & Construction Surveys
- Town Center Boardwalk Topographic Survey
- Folkstone Circle from Carlton St. to Yarmouth Ct. Topographic Survey
- Tiger Shark Cove Basketball Courts Topographic Survey
- South Shore Blvd Force Main Replacement Phase 1

Village of Palm Springs

- Boundary & Topographic Survey of Foxtail Palm Park
- Prepared a Sketch & Description for Cross Street Right-of-Way
- Topographic Survey of Village Property @ 3859 Kirk Road
- Prepared Legal Descriptions for Lift Stations on Lake Worth Rd. & Price St.
- Topographic Survey for 4 Lift Stations included in 2017 Improvements Package
- Topographic Survey for New Sidewalk on Lakewood Road
- Boundary & Topographic Survey for Fitness Pavilion
- Topographic Survey for 4 Lift Stations included in 2018 Improvements Package
- Topographic Survey for Cypress Lane Stormwater Improvements
- Sketch & Descriptions for Lakewood & Coconut Roads
- Palm Springs CRA boundary surveys
- Sabal Palm Parks Restroom Addition Boundary, Topographic & Tree Surveys

Village of Royal Palm Beach

- Boundary Survey and plat for Golf Course Phase 1, 2 &3
- Topographic Survey and Asbuilts for Golf Course Lots
- Topographic Survey for Bridge Slope Stabilization at 13 sites
- Topographic Survey for Commons Park Amphitheater
- Construction Staking and Controls for Crestwood Blvd N Streetscape Phase II
- CAD Drafting services 2013-2018

City of Greenacres

- Original Section Drainage Improvements
- Clearing and Reconstruction of the Alleyways between Perry Avenue and Fleming Avenue
- Topographic Survey of Raulerson Drive and LWDD L-12 Canal
- Topographic Survey of 57th Street
- Sketch and Legal Description of 3 parcels on 10th Ave N.
- Sketch of easement and legal description of Liberty Park Elementary School
- Asbuilts and Controls with elevation for Ramblewood Harwich Court Subdivision
- Establish Controls, gather topographic data and prepare record drawings for Bowman Street Drainage Improvements Project
- Construction Layout, Asbuilts and Controls, Record Drawings for 1st Street Drainage
- Boundary Survey of 301 Swain Blvd
- Topographic Survey of Ira Van Bullock Park
- Gather topographic data and prepare base map for Jennings Avenue
- Topographic Survey for Palm Beach Villas II Lake Bank
- Sketch & Description and ROW dedication for Bowman St.
- GIS Services

SECTION C

Past Experience

FOCUSED on Riviera Beach

Proven Partnership.
Trusted Solutions.

Past Experience

C

Delivery and Performance, You Can Count On

Our team offers an unparalleled blend of proven knowledge of the City and a demonstrated commitment as a responsive partner to advancing the interests of the City as its Owner's Advisor, a role we've practically served in since for the past year.

Working alongside the City as an "extension of its staff" to address its widely variable challenges over the past year, Brown and Caldwell (BC) has developed an important understanding of the challenges faced by the City that is unrivaled. Given the unique and diverse challenges faced by the City, from early on in our engagement, we elected to maintain our independent objectivity by focusing our support on advisory consulting, planning, criteria development and implementation oversight. Through this initial action, we chose to function in your Owner's Advisor, a role that is fully aligned with the goal of this RFQ. In doing so, we have had the opportunity to support the City in diverse Owner's Advisory services that position us to maintain continuity as we broaden our support beyond the Riviera Beach Utility Special District (RBUSD) to a City-wide role. The team we've assembled provides important continuity and experience in planning through engineering/delivery oversight of diverse municipal projects – water and wastewater utilities to public safety facilities, libraries and recreational facilities.

A Proven Owner's Advisor Partner

For several decades, BC has won many awards for Owner's Advisory services rendered in support of delivering major capital projects across the U.S. In Florida, we enjoy an outstanding reputation as the go-to firm for the development of **impactful solutions, responsive service and effective delivery oversight**. A few of our South Florida recent Owner's Advisory projects are highlighted below.

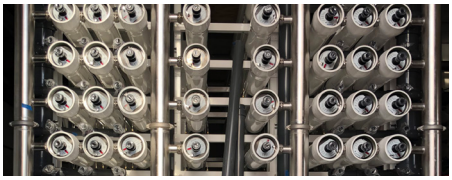
Section Contents

This section includes relevant examples of our team's past and current experience with projects similar to those anticipated under this contract.

FOCUSED on Benefits

Studies and BODRs Contract, Broward County Water and Wastewater Services

Developing design criteria packages for diverse water and wastewater infrastructure improvements to be design/implemented by others.



Membrane Water Treatment Plant Design Build Owners Advisor, City of Miramar

Providing Owner's Advisory oversight of a design-build delivery of a new nanofiltration membrane water treatment facility.

Renewal and Replacement at the North District Wastewater Treatment Plant, Miami-Dade Water and Sewer Department

Providing engineering consulting services, as the Owner's Advisor, for the procurement of a Design-build contractor, for upgrades to the plant.

Our proposed team is comprised of professionals and firms with a successful track record of planning and delivering a wide variety of utility and other municipal facilities projects and is well positioned to support the City with diverse applications including the following:

1. Facility Planning & Improvement Decision Support
2. Site Planning and Development Review Approvals
3. Design Criteria Development of Diverse Applications and Technical Disciplines
4. Construction Oversight
5. Project Management Support
6. Enterprise Management Systems
7. Utility Infrastructure Evaluations and Improvements (treatment and buried infrastructure)
8. Technology Transfer and Staff Development
9. Environmental Site Assessment
10. Architectural Concept Development and Implementation of Diverse Municipal Facilities (public safety, administration, public works, recreation, utility operations, and other buildings/facilities)
11. Alternative Project Delivery Expertise

BC is uniquely the right fit (size, location, relevant experience, and staff expertise) for the City in meeting all anticipated requirements. We offer a well-established local team of professionals that you know and trust to work tirelessly to advance the City's interest.

BC's Florida municipal continuing contract clients

BC provides similar continuing contract services to more than 25 Florida public clients. A partial list and map is shown to the right. Our client focus is on cities, counties and governmental agencies. The list contains a broad array of municipal clients and three of the five Water Management Districts throughout Florida.

We have an excellent track record of delivering a wide variety of projects that include design criteria development, project management, construction oversight and application of our technical expertise to solve numerous challenges. Our firm-wide service areas and team experience align perfectly with the City of Riviera Beach's needs.

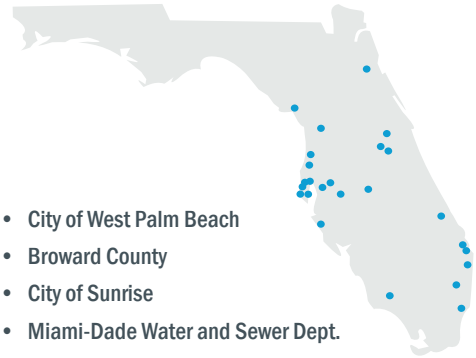
Our References

We have provided summaries of representative project experience that demonstrate the experience of our team with the types of projects anticipated to be completed by your Owner's Advisor. General reference contacts were provided in the previous section and project specific reference contact information is provided for each project summary. We invite you to contact all our references to hear firsthand from our clients about our successful delivery.

BC's National Recognition

- #5 ENR Top 20 Design Firms in Sewer
- #13 ENR Top 20 Design Firms Water
- #7 ENR Top 30 All-Environmental Firms
- #40 ENR Top 500 Design Firms

BC provides similar continuing contract services to more than 25 Florida cities, counties and utilities. A partial list is included below.



- City of West Palm Beach
- Broward County
- City of Sunrise
- Miami-Dade Water and Sewer Dept.
- Palm Beach County Solid Waste Authority
- Palm Beach County Water Utility Department
- East Central Regional Water Reclamation Board
- South Florida Water Management District
- Southwest Florida Water Management District
- City of Hollywood
- City of St. Petersburg
- Pinellas County
- Sarasota County
- Pasco County
- City of Tampa
- City of Clearwater
- City of Largo
- City of Haines City
- Orange County Utilities Dept.
- City of Sanford
- City of Tavares
- Reedy Creek Improvement District
- Hernando County
- Collier County
- Tampa Bay Water
- Indian River County

Brown and Caldwell's Service Areas

BC delivers full-service planning, engineering, construction, and program management solutions to meet our country's water and wastewater needs. We help utilities make confident decisions in building and maintaining infrastructure to provide reliable, resilient service and achieve the greatest return on the investment of resources. Key services and specialized expertise offered by our team are listed below.

Helping utilities deliver cost-effective, community-focused beneficial solutions since 1947

Public/Municipal Facilities
Site Planning & Development
Public Safety Facilities
Recreation Facilities
Office and Operations Buildings
Maintenance Facilities
Transportation Infrastructure

Drinking Water
Hydrogeology/Hydrology
Resource Investigation
Conservation Programs
Water Reuse
Aquifer Recharge
Reservoirs/Storage
Treatment Process Design
Groundwater Wells

Wastewater
Treatment Process Design
Solids Management
Industrial Pretreatment and Water Quality
Disinfection
Odor Control/Air Quality
Pilot/Treatability Testing

Water Resources and Stormwater
Integrated Planning
Watershed Planning/Management
Stormwater Management
Water Quality Management
Lake Management
Green Infrastructure
Ecosystem Restoration
Wetlands and Ecosystem Assessment
Conservation and Drought Planning

Conveyance Infrastructure
Pumping Station Design
Distribution/Collection Systems
Infiltration/Inflow Reduction
CSO/SSO Reduction
Condition Assessment
Rehabilitation/Replacement Programs

Program and Integrated Delivery
Program Management
Construction Management
Design-Build
Owner's Advisor

Utility Performance
Asset Management
CIP Planning/Prioritization
Regulatory and Enforcement Support
Business Process Optimization
IT and Business Visualization

Operations and Maintenance
Startup, Testing, and Commissioning
Decommissioning
Asset Optimization
Operations Management Services
Maintenance Improvement Initiatives
Staff Augmentation and Training

Planning/Technical Support
Treatability Studies
Treatment Plant Optimization
Hydraulics
Master Planning/Modeling
Capacity Assessment
GIS Development/Mapping
Electrical and Process Automation
Stakeholder Outreach

Compliance and Permitting
Permitting and Auditing
Environmental Impact Assessments
Environmental Monitoring
Modeling and Design
Regulatory Planning/Review

Energy and Sustainable Development
Energy Management/Alternative Energy
Triple Bottom Line Analysis
Low Impact Development
Water Footprinting
Greenhouse Gas Management
Climate Change Adaptation

Remediation and Waste Management
Site Investigation
Feasibility Studies
Remediation Design
Solid Waste Management
Risk Assessment
Decommissioning/Decontamination

Award-Winning Results

BC has helped our clients deliver many firsts for their operations, including the following notable achievements.

SDWWTP Co-Generation Facilities Design-build, MDWASD, FL.

DBIA Award

Biosolids Class A Demonstration Project, Columbus, GA.

IWA Superior Achievement Award and Project Innovation Award / Environmental Business Journal Project Merit Award: Water/Wastewater / AAEES Excellence in Environmental Engineering Grand Prize for Research / EPA National Clean Water Act Recognition Award / ACED National Honor Award / Georgia Grand Conceptor Award

Johns Creek Environmental Campus, GA. (Design-build)

DBIA National Award / ENR Best of the Best Award / Southeast DBIA Awards (2) / ACEC/G Engineering Excellence Grand Award / ACEC National Recognition Award / Environmental Business Journal Project Merit Award / Southeast Construction Award / IEC Excellence in Construction Award / ACI Georgia Award of Excellence

Indian Head WWTP DB Upgrade, MD. (Design-build)

DBIA Honor Award

DC Water Biosolids Program, D.C. (Owner's Advisor/DB)

AAEE Excellence in Engineering Grand Award / WERF Award in Excellence for Innovation / IWA Global Honour Award in Planning / WEF Fuhrman Medal for Research Collaboration

Utility Infrastructure Project Experience

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number and email address	Date of services provided	Relevance to Riviera Beach
Riviera Beach Utility Special District - Various Consulting Advisory Services Riviera Beach, Florida	Since Summer, 2019, BC has provided broad array of Owner's Advisor consulting services to RBUSD to support stakeholder engagement, O&M consulting support, conceptual planning and other areas of technical need. Through this role, Brown and Caldwell has maintained its independent objectivity and worked with stakeholders to further the interests of the RBUSD. Areas of advisory support services include: • Review unsolicited design-build-operate proposal for new WTP • Periodic updating and prioritization of the CIP with the objective of reallocating funds for new WTP and addressing critical priorities within utility infrastructure • Development of design criteria packages for prioritized improvements at the existing WTP • Phase 1 environmental assessment of potential development sites (new WTP, Solitron and other sites) • Support engagement and resolution of developer challenges • Engagement with business stakeholder to address water quality challenges • Conceptual planning of new WTP, public works and administration campus • Community engagement – participate public workshops with Council and community groups • Funding and financial consulting – strategy coordination with City's grant and rate consultants • FDOH compliance support Subconsultants: C Solutions; Colome & Associates	Riviera Beach Utility Special District 600 W. Blue Heron Blvd, Riviera Beach, FL 33404 Dierdre Jacobs (Interim Exec Dir) P | 561.845.4000 E | djacobs@rivierabeach.org	Summer 2019 - present	• Demonstrated ability to support widely variable Owner's Advisory consulting and engineering services • Demonstrated familiarity with City's infrastructure needs and priorities • Demonstrated effectiveness collaborating with City's staff across multiple departments
Development of Design Criterial Packages for Prioritized WTP Improvements Riviera Beach, Florida	Since 2019, BC has supported RBUSD in developing comprehensive solutions to the myriad of needs at its Water Treatment Plant (WTP). Our effort included the realignment of improvement priorities to address the most critical performance and reliability needs while seeking cost effective strategies for achieving the City's objectives. A key element of our efforts resulted in the development of a Design Criteria Technical Memorandum that established the criteria on which prioritized facility improvements would be implemented. The RBUSD's original direction was to advance permit modifications and bid support for a new Sodium Hypochlorite Building. However, given the extensive improvement needs at the WTP and dated lime softening technology, consensus was established between RBUSD, City Administration, and City Council to transition to a new WTP to best serve the long-term interest of the City. Thus, the project was modified to redirect effort from the Sodium Hypochlorite Building to interim improvements. The improvements were identified and prioritized in the Design Criteria Technical Memorandum with the intent to transition to a new WTP. By eliminating the dedicated sodium hypochlorite building and other modifications improvements, RBUSD realized significant cost savings. With the re-aligned improvement focus, the RBUSD targeted new or replaced chemical feed systems (lime, polymer, ammonia, chlorine, and carbon dioxide) together with improvements to flow metering, water quality monitoring and process control systems as well as electrical system improvements.	Riviera Beach Utility Special District 600 W. Blue Heron Blvd, Riviera Beach, FL 33404 Dierdre Jacobs (Interim Exec Dir) P | 561.845.4000 E | djacobs@rivierabeach.org	July 2019 - February 2020	• Served as Owner's Advisor for the development of design criteria package which serves as the basis for retaining two design-build entities to implement improvements • BC is equipped to provide support continuity for proposal/GMP negotiation and subsequent construction phases. • BC has a thorough understanding of the planned improvements and require no learning curve to continue supporting the City's needs.
Owner's Advisor Services for the Oxygen Generation Replacement System at the North District Wastewater Treatment Plant Miami, Florida	BC first evaluated the flows and loads into the North District Wastewater Treatment Plant (NDWWTP) and forecast the oxygen demand expected in the next thirty years. Then BC evaluated oxygen production equipment and worked with the owner to select two 100 ton per day cryogenic oxygen production plants. Following this selection, BC performed the preliminary planning and Basis of Design Report for the replacement of the existing plants. At completion of the Basis of Design Report, the owner selected a design-build delivery and assigned BC the task of Owner's Advisor for the procurement of a design-build contractor, including preparation of the Design Criteria Package (DCP) documents, Request for Design Build Solicitation (RDBS) documents for bidders, preliminary permitting assistance, and assistance evaluating submittals from bidders, for the upgrades associated with the High Purity Oxygen (HPO) system at the plant.	Miami-Dade Water and Sewer Department 3071 SW 38th Avenue Miami, FL 33146 Dan Edwards, Consent Decree Sr. Program Manager P | 786-552-8354 E | Daniel.Edwards@miamidade.gov	November 2018 - present	• Creation of design criteria package • Assisting with cost estimating, bidding procedures and selection of the design-build firm • Completed a preliminary design that worked with the owner's existing site plan. • Managed preliminary design and procurement tasks to fit schedule • Bundled oxygen production and oxygen train rehab into one design-build project
Owner's Advisory Services for Implementation of East Membrane WTP Miramar, Florida	The City of Miramar retained BC to provide Owner's Advisory oversight of a design-build delivery of a new nanofiltration membrane water treatment facility that was constructed to replace an aging lime softening WTP that was approaching the end of its functional useful life. BC's oversight role commenced partway through the construction phase and included the following services: • Assessment of Contractor's performance under the contract and identification of areas of performance requiring corrective actions • Periodic progress inspections and attendance of progress meetings • Negotiation support for the review and agreement on the Guaranteed Maximum Price (GMP) for Phase 2 construction package • Advisory consulting support to owner (various) In addition to the noted Owner's Advisory services in support of the new WTP construction, BC provided consulting support for updates to its Water Supply Facilities Plan, and pre-permit application meetings with the SFWMD to explore potential Water Use Permit modifications, responding to permitting challenges with development projects within the City and engagement of City stakeholders on various planning initiatives	City of Miramar 13900 Pembroke Rd. Miramar. FL 33027 Ronnie Navarro P | 954.883.6825 E | rsnavarro@miramarfl.gov	July 2018 - present	• Owner's Advisory support for design-build delivery of a new replacement membrane WTP comparable to the facility being considered by RBUSD. • Construction oversight • Stakeholder/regulatory engagement • Planning studies

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number and email address	Date of services provided	Relevance to Riviera Beach
PBCWUD West Region Treatment Facility Operations Building Replacement Concept Design Belle Glade, Florida	PBCWUD retained BC to assess its alternatives for replacement of an O&M/Administration Building at its West Region WWTF. The key objective of the ongoing project is the replacement of an existing building that has incurred significant mold damage that is costly to remediate. Key elements of this ongoing projection include: • Space planning to identify the range of functional uses for the proposed building and conceptual layout for efficient use of work environment. • Site investigation and facility siting – conducted to assess the optimal placement of the proposed building and field investigation of existing conditions that could impact siting and cost • Resiliency consideration – develop recommended finish floor elevations and other requirements to enhance protection against natural hazards • Alternative Evaluation – conduct an objective process for prioritizing and applying evaluation criteria to alternatives to support alternative selection and buy-in by key stakeholders • Alternative Recommendation - develop final implementation recommendations Subconsultant: Colome & Associates	Palm Beach County Water Utility Department 8100 Forest Hill Blvd West Palm Beach, FL 33413 Craig Irwin (Program Manager, Stantec) P | 561.493.6024 E | cirwin@pbcwater.com	2016-present	• Planning and conceptual design for new Utility Operations and Administration Building • Design Criteria Development • Demonstrated Experience working with select subconsultants
Water and Wastewater General Engineering Consulting (GEC) Services West Palm Beach, Florida	The City retained BC to serve as one of its GEC Consultants. In that role, BC has provided wide-ranging services in support of the operation, planning, design and construction oversight of upgrades to its water and wastewater system. Examples of the diverse projects conducted under this contract include: • Condition assessment of Master Pump Station #5 and influent gravity sewer • Lift station rehabilitation design to convert to submersible configuration; including station relocation and sewer realignment • Water System Capacity Analysis Report • Lift Station (LS) 5 system modeling and force main size analysis to determine required upgrades for reconfigured operation • Hydraulic modeling of Ibis collection system basin to troubleshoot operation challenges • Design of major water main tie in in a high-risk corridor using trenchless technologies • Design of force main relocation using trenchless technologies	City of West Palm Beach 401 Clematis Street, 2nd Floor West Palm Beach, FL 33402 Laura Le, PE P | 561.494.1093 E | LLe@wpb.org	November 2014 to 2019	• Construction oversight • Demonstrates ability to successfully deliver diverse utility buried infrastructure assignments • Condition Assessment of collection system and master pump station • Collection system modeling capability
Water and Wastewater Master Plan – As-Needed Services West Palm Beach, Florida	The Master Plan included a task for as-needed services that was used to provide continuing support in a variety of areas related to planning effort, implementation of subsequent recommendations and stakeholder engagement. Examples of tasks conducted include: • Conducted modeling of the 42/48 inch ECR forcemain and all connected LSs to develop a coordinated operating strategy to maintain flows within the required range to support transmittal of condition assessment device • Developed presentation materials for City's use in engaging community and civic groups to communicate improvement initiatives to stakeholders • Worked collaboratively with City's O&M staff to conduct LS basin reviews and modeling to guide areas to target for sanitary sewer evalutaion study (SSES) investigation. • Conducted modeling analysis to assess the impact and corrective measures for alternate failure scenarios of the City's intracoastal waterway crossings • Conducted modeling support in reviews of new development requests • Provided modeling support of routine O&M troubleshooting, assessing the impact of construction related outages and developing corrective measures. • Conducted multi-hydrant fireflow analysis that successfully eliminated 78% of indicated deficiencies.	City of West Palm Beach 401 Clematis Street, 2nd Floor West Palm Beach, FL 33402 Laura Le, PE P | 561.494.1093 E | LLe@wpb.org	February 2015	• Experience with diverse practical modeling applications that optimizes operation, reduces operational and construction risks, and results in capital cost savings • Support of SSES evaluations

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number and email address	Date of services provided	Relevance to Riviera Beach
Broward County Water and Wastewater Services' (BCWWS) Studies and BODR Contract (comparable to Owner's Advisor role) Pompano Beach, Florida	Broward County retained BC to serve as its Studies and BODR consultant. In this role, BC is the "go to" firm when conditions emerge that requires investigation and for the independent development of preliminary design criteria for projects to be implemented by one of the County's design consultants. In this role, BC serves as the County's trusted advisor on a wide range of matters across its utility enterprise and brings its technical resources to bear in establishing the technical requirements for planning and capital improvements. Examples of projects undertaken in this role are summarized below (some projects are defined in further detail): • AWIA mandated water system Risk and Resilience Assessment and Emergency Response Plan • District 1A and 2A WTPs – Chemical Feed Systems Upgrades BODR (i.e. design criteria development) • District 3B Tank/Repump Station – Chlorine and Ammonia Feed Systems BODR (design criteria) • District 3A/B/C Repump Stations 4 log Implementation BODR • Master Pump Station Ragging Study • Master pump stations improvements BODR (design criteria) • District 3B/C Septic Tank to Sewer Conversion Feasibility Study • District 3A Collection System Modeling • District 1A rTCR Compliance Analysis – to address total coliform occurrence and low chloramine residuals • Staffing Analysis of Customer Service Center • North County Regional Reuse Feasibility Study • Alignment and Preliminary Engineering Study for Force Main Crossing of Intracoastal Waterway • Coastal Brackish Groundwater Infiltration Study and Mitigation Plan • NDWWTP Effluent Pump Station Electrical System Upgrades BODR • Alternative Water Supply CIP Assessment and Update • Annual Reports (several years) – required by bond covenants	Broward County Water and Wastewater Services 2555 W Copans Road Pompano Beach, FL 33069 Greg Balicki P | 954.831.0903 E | gbalicki@broward.org	2014 - present	• Comparable Owner's Advisory role for water and wastewater utility infrastructure • Demonstrated ability to effectively address diverse technical issues with utility infrastructure • Design criteria development for treatment, pump stations and buried infrastructure assets that is consistent with Owner's Advisor role • Satisfy Consulting Engineering requirements (to assess condition of infrastructure and adequacy of reserves) of Bond Covenants
District 1A and 2A Facilities Chemical Feed Systems Upgrades Broward County, Florida	BCWWS Districts 1A (16 mgd) and 2A (40 mgd) Facilities utilize conventional lime softening of the Biscayne aquifer water supply for the removal of hardness and dissolved organics. Certain chemical systems (ferric chloride, polymer, fluoride, and certain portions of the sodium hypochlorite system) at both facilities require varying degrees of rehabilitation. Also, BCWWS is considering converting both facilities from anhydrous (gas) ammonia to either 19 percent aqua ammonia or liquid ammonium sulfate (LAS) to reduce the risk profile of its facilities. BC evaluated the potential conversion from gas to liquid ammonia conversion at both facilities, and developed a Basis of Design Report covering rehabilitation of the ferric chloride, fluoride, polymer, and sodium hypochlorite systems at the 2A facility. BC worked closely with both operations and engineering staff to develop recommendations that were favorable to all stakeholders.	Broward County Water and Wastewater Services 2555 W Copans Road Pompano Beach, FL 33069 Greg Balicki P | 954.831.0903 E | gbalicki@broward.org	July 2015 - January 2016	• Demonstrates experience conducting R&R assessments of chemical feed systems used in a lime softening facility • Chemical feed systems are comparable to planned upgrades to City's WTP
Evaluation of Alternative Intracoastal Waterway Crossings Broward County, Florida	In the vicinity of the Hillsboro Mile area, BCWWS operates four retail lift stations discharge to a Master Pump Station (MPS 220). From there, the wastewater is re-pumped through a 16-inch force main (FM) that crosses the Intracoastal Waterway (IWW) to emerge in the City of Lighthouse Point. The FM is the only transmission main in place to cross the IWW. The County has concerns regarding the condition of the FM and potential environmental impacts that could occur should there be a failure that releases raw sewage to the IWW. Though the FM had been recently re-lined; the County's objective was to establish an alternative means of transmitting wastewater from the barrier island. BC evaluated several conceptual routing alternatives to establish a feasible redundant FM transmission corridor.	Broward County Water and Wastewater Services 2555 W Copans Road Pompano Beach, FL 33069 Greg Balicki P | 954.831.0903 E | gbalicki@broward.org	December 2015 - March 2016	• Infrastructure evaluations • Similar to intracoastal water way crossings that are included in RBUSD's capital improvement program
Lift Station Rehabilitation and Upgrades Sunrise, Florida	BC serves as one of the City's GEC Consultants. In this capacity, we have implemented a wide range of projects including major WWTP upgrades, design of a new reuse treatment facility, water use permit support services, lift station assessment/upgrades, construction administration. This summary describes our lift station design services: • Worked with the City's field staff to identify their top concerns for each station, which included ragging, hydraulic limitations, and access issues. • Conducted hydraulic modeling, field evaluation of lift station flows and land uses in each service area, and other site-specific factors • A structural assessment of one major LS interior pipe column support system due to severe corrosion on the columns. The support columns appeared to be unsound, and the integrity of the top slab system was questionable. This resulted in the closing of the street and emergency/fast track design implementation of improvements required to permit reopening of the roadway. Improvements were implemented while the LS remained operational • Developed optimized engineering design that focused on the site-specific needs of each of six lift stations	City of Sunrise 777 Sawgrass Corporate Parkway Sunrise, FL 33325 Tim Welch P | 954.888.6037 E | twelch@sunrisefl.gov	2010 - present	• Construction oversight • Demonstrated ability to successfully implement emergency/fast track structural rehabilitation of lift stations • Developed standardized upgrade packages to facilitate efficient delivery

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number and email address	Date of services provided	Relevance to Riviera Beach
Plant Wide Electrical Improvements – BODR Miami, Florida	BC completed a Basis of Design Report for a brand new 44,000 square foot Electrical Switchgear/Generator facility to serve the entire North District WWTP. The existing electrical service facilities, including the main switchgear building, power distribution and standby power facilities, have exceeded their useful life. More critically, the existing electrical facility and standby generators are at one of the lowest elevations at the plant site and significantly below the required elevation to meet recently developed sea level rise and storm surge requirements memorialized in the Ocean Outfall Legislation Compliance Plan. This project consisted of developing the electrical, structural, architectural, civil and building mechanical basis of design criteria to replace the existing Main Electrical Switchgear Building and Standby Generators with a brand new Electrical Switchgear/Generator Building. The proposed building will house 10 (ten) 2865kW emergency generators, a main switchgear room, transformer rooms, a control room and a break room. Subconsultant: C-Solutions performed independent value engineering of this project on behalf of Miami-Dade.	Miami-Dade Water and Sewer Department 3071 SW 38th Avenue Miami, FL 33146 Humberto Codispoti, PE P | 305.275.3124 E | HCP@miamidade.gov	April 2014 – September 2016	• Development of design criteria • Electrical improvements at WTP

Comprehensive National Owner's Advisor Projects

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number, email address	Date of services provided	Relevance to Riviera Beach
Owner's Representative Services during Design of the Biosolids Improvement Project West Palm Beach, Florida	BC provided Owner's Representative services to ECRWRF staff and the ECR Board on a $100 million Biosolids Improvement Project involving new anaerobic digesters, gravity belt thickeners, centrifuges and truck load-out facility, odor control facilities and a new septage/FOG receiving station. BC services on the project included formal Value Engineering Reviews at 30 and 60 percent design and peer reviews of design documents at 30, 60, 90 and 100 percent design. BC assisted the City and ECR Board with pre-qualification of General Contractors to bid on the project, including preparation of the technical elements of a Request for Qualifications (RFQ) and review of Contractor responses to the RFQ.	East Central Regional, City of Lake Worth 301 College Street Lake Worth, FL 33460 Brian Sheilds, ECR Board Chairman P | 561.586.1675 E | bshields@lakeworth.org	April 2013 - October 2014	• Creation of design criteria package • Assisting with cost estimating, bidding procedures and selection of the design-build firm • Construction oversight
Pure Water Soquel Program Soquel, California	BC is providing Owner's Advisor services for Soquel Water District to protect the Mid-County Groundwater Basin from seawater intrusion; this involves two progressive design-build capital projects (conveyance and an AWT) estimated at a combined value of $120-150M. The program also involves a 20-year O&M contract procured as O&M at Risk or "OMAR." BC's OA services include assessing project delivery options that align with the District's objectives and developing an outcome-focused procurement plan involving both design-build and long-term, at-risk operations delivery methodology to achieve date certain completion and implementation of the program. BC also developed procurement documents and provided day-to-day procurement support for three of the four projects in the PWS program: 1) treatment facilities 2) conveyance system, and 3) long-term operations of the new advanced water purification facility. In December 2019 and January 2020, the District selected its design-build and O&M teams for the Treatment Project, the Conveyance Project and the long-term Operations firm, with BC assisting with the evaluation process and selection workshops.	Soquel Creek Water District 5180 Soquel Drive Soquel, CA. 95073 Melanie Mow Schumacher, PE P| 831-824-9369, Ext. 153 E | Melanies@soquelcreekwater.org	June 2018 - present	• Owner's Advisor services, including industry outreach, delivery model analysis and selection, RFQ/RFP development for a utility infrastructure design-build project, and operations management-at-risk (OMAR) project. • Performance-based design criteria align requirements of the approved Environmental Impact Statement and regulatory mandates while maximizing the opportunity for innovation by the design-builder.
Mountain Home Air Force Base Water Supply Idaho	BC served as the Owner's Advisor to the State of Idaho for the $35M high profile Design-Build-Operate Mountain Home Air Force Base water supply project, which is intended to reduce reliance on declining aquifers by providing a new source of supply from the Snake River. The infrastructure project was envisioned to include a new 6 MGD water treatment facility, raw water pump station, intake structure, and 14-mile transmission pipeline. BC helped to balance prescriptive and performance based requirements in the Design-Build-Operate (DBO) contract as the project required an aggressive focus on schedule to secure beneficial water rights in 2021. The selected procurement process involved a two-step procurement with a Request for Qualifications (RFQ) and Request for Proposal (RFP). Each step balanced the technical needs of the State and collaboratively reduces risk to the DBO entity thereby improving the price of the project. BC completed a market analysis to engage prospective firms; drafted and issued the SOQ, supported the State's selection of shortlisted qualified entities, facilitated risk transfer and scope refinements and began preparation of an RFP. The SOQ provided specific requirements for the DBO entity to meet to qualify for the shortlist. This screening allowed the State to establish important criteria for DBO entity's past history, liquidity, insurance, and expertise in drinking water design and construction fields.	Idaho Water Resource Board 322 E Front Street, Suite 648 Boise, Idaho 83702 Randy Broesch P | 208.287.4879 E | randall.broesch@idwr.idaho.gov	April 2017 - June 2019	• Market analysis • Life-cycle cost analysis • RFQ development and issuance • Confidential 1:1 meetings with design-builders • RFP preparation
Blue Plains Advanced Water Treatment Plant Biosolids Program Management Washington DC	The $470M biosolids program at Blue Plains, the largest advanced wastewater treatment plant in the world (370 mgd average, 1 billion gpd peak) makes Blue Plains one of the greenest and most sustainable wastewater facilities in the world—and the entire program pays for itself through operational savings and power generation. BC has led all program areas, including studies, pre-design, design, procurement, project delivery as well as startup and commissioning, coordinating closely with DC Water, the construction manager, and other parties. The program involved design-bid-build, design-build, and design-build-operate project delivery methods. Alternative delivery has reaped benefits for DC Water, including transferring elements of risk and achieving significant cost savings, BC's on-site team has managed contractors and vendors to keep the program on schedule and on budget.	DC Water 5000 Overlook Avenue SW Washington, DC 20032 Chris Peot, Director, Resource Recovery P | 202.787.4329 E | cpeot@dcwater.com	2009 - 2015	• Owner's Advisor/Program Management services for a large, multi-year program

Non-Utility Infrastructure Project Experience

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number and email address	Date of services provided	Relevance to Riviera Beach
Fire Station No. 8 *(Brown & Phillips)* West Palm Beach, Florida	Brown & Phillips was contracted to perform construction staking and record drawing services for the completion of a new West Palm Beach fire station located at the northeast corner of Northlake Boulevard and Memorial Park Road. Construction staking consisted of the building pad, building corners, curb & edge of pavement, storm drainage, dry retention, utilities, sidewalk, fuel tank, transformer, light poles, and offsite median. When the slab was set, Brown & Phillips located all corners and elevations along with verifying the distances between them. An as-built survey was produced for the stem-wall (slab tie-in survey) which showed the location of the slab in relation to the lines between the property corners. As-built information was obtained on the paving, grading & drainage and on the water & sewer. We produced record drawings which showed the constructed improvements as an overlay on the proposed positions. Additional services included preparing legal descriptions and sketches for utility easements and abandonment of an FPL easement.	D. Stephenson 6241 North Dixie Highway Fort Lauderdale, FL 33334 Stan Francis, Project Manager P | 954.315.7020 E | sfrancis@dstephenson.com	December 2017 - April 2020	• Utility construction project • Surveying services • Record drawings • FPL coordination
Palm Tran South Expansion *(Colome & Associates)* Delray Beach, Florida	This project involved a three-story building expansion, renovations to an existing one-story administration, storage and workshop buildings, as well as a new parking lot for staff and the general public. The scope included modifications and replacement of some components at the existing fuel island. Colome & Associates assisted with site plan approval, provided schematic design, design development, construction and permit assistance, and bidding and construction administration for the project.	Palm Beach County Facilities Development & Operations 2633 Vista Pkwy, West Palm Beach, FL 33411 Jim Daley P | 561.233.0200 E | JDaley1@pbcgov.org	Completed 2021	• Architecture, design, permitting and construction services for a municipal project
West Regional Operations Center *(Colome & Associates)* Palm Beach County, Florida	The West Regional Operations Center complex is a total of four buildings. The administrative/warehouse shop-building area provides office, and repair and maintenance spaces. The building is designed to meet the Commercial - Florida Green Building Coalition standards for certification. Colome & Associates worked closely with PBCWUD to provide an aesthetically pleasing building design which met their functional needs to service the Glades area. Scope for this project included conceptual and schematic design, design development, cost estimating, bidding and construction administration services.	Palm Beach County Facilities Development & Operations 2633 Vista Pkwy, West Palm Beach, FL 33411 Fernando Del Dago P | 561.233.0200 E | FDelDago@pbcgov.org	Completed 2017	• Architecture, design, permitting and construction services for a municipal project
WTP 11 Membrane Building Addition and Storage Building *(Colome & Associates)* Belle Glade, Florida	This project included construction of a new membrane building addition of 2,300 SF and interior renovation of 2,431 SF including a new stand alone air conditioned storage building of 2400 SF with mezzanine. Colome & Associates provided conceptual design, schematic and design development, assistance with creation of construction documents, bidding assistance and construction administration services. This project was completed using the CM at Risk project delivery method.	Palm Beach County Facilities Development & Operations 2633 Vista Pkwy, West Palm Beach, FL 33411 Fernando Del Dago P | 561.233.0200 E | FDelDago@pbcgov.org	Completed 2018	• Architecture, design, permitting and construction services for a municipal project • New construction • Construction manager at risk delivery experience
Summit Library Children's Areas *(Colome & Associates)* West Palm Beach, Florida	This project included the renovation of an existing library. Colome & Associates provided advisement for the reconfiguration of the existing children's and teen areas including improving life safety, accessibility, layout and finishes. Scope items included replacement of roof, replacement of existing generator, reworking fire alarm system and mechanical system, and exterior painting of existing buildings. Services provided included conceptual design, schematic and design development, assistance with creation of construction documents, bidding assistance and construction administration services.	Palm Beach County 2633 Vista Parkway West Palm Beach, FL 33411 Bobby Jagoo P | 561.233.0202	Completed 2018	• Architecture, design, permitting and construction services for a municipal project
Palm Beach Sheriffs Office Evidence Facility *(Cotleur & Hearing)* West Palm Beach, Florida	Cotleur & Hearing was retained by Palm Beach County to obtain zoning entitlements, site plan and landscape architecture approval to develop an Evidence Facility on the existing Palm Beach County correctional facility on Gun Club Road in Palm Beach County. Plans call for a 52,000 square foot single story building designed with 25-foot ceilings, tilt up wall construction with scored and corrugated finishing. Due to the majestic natural hardwood ecosystem that exists on the site, Cotleur & Hearing has incorporated their signature mitigation component to shape the Old Florida landscape with pockets of native upland habitat, consisting of enormous Live Oaks, Sable Palms with sawgrass understory, arranged to intersperse the property.	Palm Beach County 2633 Vista Parkway West Palm Beach, FL 33411 Audrey Wolf, Facilities Development & Operations Director P | 561.233.0200 E | Awolf@pbcgov.org	Completed 2017	• Landscape architecture, design, permitting and construction services for a municipal project • Zoning entitlements, site planning, landscape architecture, upland mitigation design

Project name / Location	Description of the project, including size and scope	Client name, address, contact person, phone number and email address	Date of services provided	Relevance to Riviera Beach
Fire Station #2 *(Cotleur & Hearing)* Riviera Beach, Florida	Cotleur & Hearing teamed up with REG Architects and the City of Riviera Beach to assist with the approval of a brand-new 12,490 square-foot Fire Station #2 (FS#2), located on Blue Heron Boulevard directly adjacent to the municipal Barracuda Bay Aquatic Complex. FS#2 will replace an existing 4,000 square-foot fire station which is over 40 years old and provide for much needed upgrades on the site. The project was approved at City Council in February 2019. The approval also included minor site upgrades to Barracuda Bay along with a 648 square-foot multipurpose room.	Riviera Beach 600 W. Blue Heron Blvd. Riviera Beach, FL 33404 Terrence Bailey, Director of Community Development P | 561.845.4060 E | Tbailey@rivierabch.com	Completion anticipated 2020	• Landscape architecture, design, permitting and construction services for a municipal project • Land planning services and landscape architecture
Rehabilitation and Replacement of Lift Station No. 10 and No. 50 *(C Solutions)* Riviera Beach, Florida	The City of Riviera Beach Utility District (RBUD) owns and operates 51 wastewater lift stations in its service area. Of these, five lift stations (LS) are considered master pump stations: LS50, LS47, LS1A, LS10 and LS12. C Solutions Inc. evaluated the conditions of both lift stations and made recommendations for the improvement and rehabilitation of both stations. For LS50, C Solutions recommended a small reconfiguration of the transmission system, finding that LS1A could pump directly to ECRWRF, and replacing LS50 with an above ground 5.8mgd inline booster station. This provided a large capital cost savings for the rehabilitation of LS50 while improving system reliability and greatly reducing operations and maintenance cost. For LS10, C Solutions recommended rehabilitating the existing wetwell and reconfiguring the station to a triplex submersible pump station with smaller pumps, to better handle the seasonal changes in flow on Singer Island. Following the approval of the recommendations, C Solutions provided the design, permitting and construction management for the rehabilitation of LS10 and replacement of LS50 with an above ground inline booster station.	City of Riviera Beach 600 West Blue Heron Boulevard Riviera Beach, FL 33404 Leighton Walker, Acting Executive Director P | 561.845.4185 E | lcwalker@Rivierabch.com	Completed March 2018	• Riviera Beach municipal project • Alternatives presented provided large capital savings • Design, permitting and construction services
The Old Fire Station #2 Survey and Civil Design *(Engenuity Group)* Riviera Beach, Florida	Engenuity produced a topographic survey of the old Fire Station #2 at Barracuda Bay, adjacent to this site, in 2018, under our continuing services contract with the City of Riviera Beach. The scope of this project is to repurpose the old Fire Station #2. Our engineering department is tasked with schematic design, design development, preparation of construction documents, permit application submittals, contractor bid coordination, construction observation, and construction contract administration.	Riviera Beach 600 W. Blue Heron Blvd. Riviera Beach, FL 33404 Terrence Bailey, Director of Community Development P | 561.845.4060 E | Tbailey@rivierabch.com	Ongoing	• Riviera Beach municipal project • Survey and civil design for utility project • Construction bidding, and administrative support
Palm Beach Gardens Emergency Operations Center *(Engenuity Group)* Palm Beach Gardens, Florida	Engunuity prepared drainage, grading, paving, wastewater collection, and water distribution construction drawings for this design build project. Obtained permit approvals for an 11,000 square foot emergency operations and communications center. Submitted the project for LEED Certification. The project was required to have secondary potable water and wastewater systems capable of providing continuous service to the building for 72 hours in the event of a utility service outage. A “limited use water system” utilizing an onsite well and a sanitary holding tank were employed to satisfy these requirements. Other design and construction challenges included relocation of existing utility services for the City’s existing Police Department Building.	PGAL Architecture 791 Park of Commerce Blvd, Suite 400 Boca Raton, FL 33487 Samuel J. Ferreri, AIA, Principal P | 561.988.4002 E | sferreri@pgal.com	Completed January 2013	• Local municipal, design-build project • Civil design • Permitting assistance
Congress Avenue, West 13th Street to Essex Lane *(Radise International)* Riviera Beach, Florida	RADISE Scope was to provide construction engineering and administration services related to the water and sewer components in connection with the Congress Avenue Infrastructure Improvements Project. Services include shop drawing review, construction inspection and testing, progress meeting attendance, processing of payment requests, RFI responses and change order assistance and contractor coordination.	City of Riviera Beach Utility Special District 600 West Blue Heron Boulevard Riviera Beach, FL 33404 John Armstrong, PE, Senior Utilities Engineer P | 561.329.7473 E | JArmstrong@rivierabeach.org	May 2019 - March 2020	• Riviera Beach utility project • Construction Engineering Inspection services including: Shop Drawing Review, RFI Review, Contractor Coordination, Utility and Pipe Replacement, Pressure Tests, FDEP DOH Clearance, Process Payment Request, Walk Through, Project Closeout & Certification
Benoist Farms Road *(Scalar Consulting Group)* Palm Beach County, Florida	The purpose of this project is to widen Benoist Farms Road from a two-lane rural roadway to a three-lane urban roadway. As part of this project, a single-span bridge (Pit Bridge) which connects the Solid Waste Authority property (currently leased by PBC Road and Bridge Division) to Benoist Farms Road, was replaced. Improvements also include new storm water management facilities, relocation of 200-feet of the Lake Worth Drainage District (LWDD) E-2 Canal (to the east) and signing and pavement markings.	Palm Beach County 301 N. Olive Avenue West Palm Beach, FL 33401 Antolina Michel-Diaz, Project Manager P | 561.684.4049	2016-2018	• Local, municipal project • Coordination with additional agencies
Prosperity Farms Road Bridge Replacement *(Scalar Consulting Group)* Palm Beach County, Florida	This Palm Beach County infrastructure sales tax project involves the complete replacement of the existing 80’-wide (+/-) bridge that traverses over the South Florida Water Management District’s (SFWMD) C-17 Canal. The bridge was originally constructed in 1958 and widened in 1991 as part of the Prosperity Farms Road widening project. The existing bridge is weight restricted (31 tons), explaining the need for replacement. The future bridge will provide three travel lanes, with provisions for future widening to five lanes. The bridge will also be raised to account for Sea Level Rise, as detailed by the National Oceanic and Atmospheric Administration (NOAA). An existing 12” water main, owned and maintained by Seacoast Utility Authority, and an existing 6” gas main, owned and maintained by Florida Public Utilities, run along the west side of the existing bridge. Both utility lines will require complete replacement due to the proposed bridge work. This will result in extensive utility coordination for this project. Scalar was responsible for project management, as well as roadway, traffic control, structures and drainage design. Additional components Scalar will be responsible for include signing and pavement markings and utility coordination.	Palm Beach County PO Box 21229 West Palm Beach, FL 33416 Maroun Azzi, PE, Engineering & Public Works Dept., Roadway Production Division P | 561.684.4150 E | Mazzi@pbcgov.org	2018-2019	• Local, municipal project • Coordination with additional agencies

SECTION D

Approach to Scope of Work

FOCUSED on Riviera Beach

Proven Partnership.
Trusted Solutions.

Project Understanding, Proposed Approach, and Methodology

D

Our understanding of the City's priorities coupled with our demonstrated ability to support your wide-ranging needs and construction oversight makes our Team best suited to serve as the City's Owner's Representative.

Your Owner's Representative role is one of trust that is built on the confidence that the City's best interest is being served by a team of professionals that have demonstrated competence and history of impactful service. In this role, we will partner with you to successfully navigate and administer the journey to realize the City's development priorities. Over the past two years since Brown and Caldwell (BC) has been supporting the City's varied needs, we have developed an in-depth and unsurpassed understanding of the City's varied needs, vision and improvements priorities. Examples of utility system priorities that require construction delivery support from your Owner's Representative include:

1. **Existing WTP Design-Build Improvements** // as your Design Criteria Engineer, BC is best suited to work on the City's behalf to guide evaluation of recently hired contractors guaranteed maximum price, design development and construction phase activities.
2. **Design Criteria Development** // other improvements driven by Consent Order and/or functional limitations that may require the development of design criteria packages.
3. **Buried Infrastructure Improvements** // much of the City's CIP is allocated to buried infrastructure improvements, among which the most critical being the replacement of the existing force main crossing of the intracoastal waterway

The most ambitious infrastructure redevelopment project is the implementation of a utility-public works campus that will house a new Membrane Water Treatment Plant (new WTP), a Public Works (PW) maintenance facility, and an Administration Building that will be shared by multiple City departments. The exhibit below is a conceptual plan that was developed by BC in collaboration with the City.

Section Contents

Detailed understanding of the Scope of Work and our positive commitment to timely perform the proposed contract work.

Your Owner's Representative will play a key role in realizing the vision of this campus:

- Site planning and approval
- Water use permitting
- Delivery approach & procurement support
- Reviews and approvals
- Construction administration
- Stakeholder engagement
- Funding and financing support
- Commissioning and acceptance

FOCUSED on Benefits

BC is FOCUSED on the City of Riviera Beach

To meet the variable and dynamic requirements that may emerge in the City, your Owner's Representative should truly serve as an extension of your staff with a commitment to the best long-term interest of the City of Riviera Beach. We view your diverse needs from your perspective, with the additional benefit of a broader portfolio of situations derived from other local and national experiences to help you effectively anticipate and respond to both opportunities and risks.

Simply stated – your Owner's Representative should be flexible, capable and committed. It's with this goal that we have assembled a team that you can trust to deliver. Examples of our team's track record of delivering impactful results that serve the best interest of our clients include the following:

1. **Mitigated compliance risks and led an initiative with FDEP to develop a strategy that saved an estimated $200 million. Currently designing and overseeing construction of elements of the $100 million compliance program (Hollywood).**
2. **Oversee criteria development through construction implementation (over $500 million) using multiple delivery methods inclusive of traditional and alternative project delivery methods (design-build, construction manager at risk, etc.) (Broward County, West Palm Beach, Palm Beach County, Hollywood, Miami-Dade WASD, others).**
3. **Delivery of major buried infrastructure planning, through construction oversight projects on-time and within schedule.**
4. **A team of subconsultants, including Riviera Beach small businesses, with a successful track record (that span nearly two decades) implementing projects within Riviera Beach that range from public safety facilities to award winning housing designs and places of worship.**
5. **Development of Design Criteria Package for design-build improvement at the Riviera Beach WTP. Other advisory services include participation in Developer engagement, community meetings, Council presentations, and representing the City's interests with discussions with key stakeholders.**

These examples illustrate our range of capabilities and the impactful results that can continue to be delivered to Riviera Beach, as well as the flexible approaches taken to adapt our management and delivery efforts to the specific needs of each assignment.

Experience + Trust + Responsive Commitment
= Outstanding Results

Alignment of Capabilities and Approach with City's Needs

BC has conducted assessments of the City's utility system needs. A summary of our understanding of the City's needs, our aligned approach and capabilities is presented below.

Existing and New Water Treatment Facilities

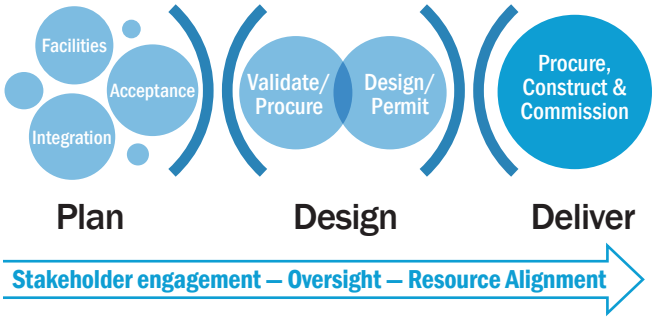
» Prioritized Needs / Issues: The City of Riviera Beach water treatment facility is aging and in need of significant investment to improve the reliability and performance of the process as well as overall operational safety and efficiency. In the two years since BC has served the City, we have assisted with critical operation improvements, compliance support and improvement planning efforts. The demands on the system to produce an aesthetically pleasing water supply exceeds the capabilities of the 1960's technology currently employed. Consequently, the City has set a direction to implement a modern membrane treatment facility that produces significantly improved water quality.

Aligned with the City's goal of developing a new WTP with modern treatment capabilities, near-term investments in the existing WTP are aligned with enhancing its reliability and performance with recognition that the plant may be retired within a 5 to 7-year horizon.

Consistent with this goal, BC has developed cost effective strategies for upgrading the existing treatment facilities and developed a Design Criteria Technical Memorandum that served as the basis for the City procuring the services of two design-build contractors to implement the identified improvements. If selected as the City's Owner Representative, among our initial tasks will be the oversight of efforts to implement improvements at the existing WTP.

The performance challenges of the existing WTP is readily evident to the City's water consumers relative to the elevated hardness and color that represent an aesthetic nuisance.

The planned improvements, while expected to make a significant impact, will be limited in scope due to limitations of the current lime softening technology. To achieve the longer-term water quality improvements, implementation of the new membrane WTP is an important and major investment. Key steps required to successfully implement in which your Owner Representative will play an important role is illustrated below.



As your Representative, we will support and advise you in:

1. Planning Phase – site plan approval, construction delivery approach, criteria development water use permitting, community engagement and funding
2. Design Phase – procurement, submittal reviews, project management, value analysis, bid phase coordination
3. Delivery – construction phase oversight through commissioning and warranty phase services

Our focused due diligence, practical experience with similar systems, and improvement approach will yield sustained benefits and improved confidence of the City's stakeholders.

Water Mains & Sewer Mains

» Water System Needs/Issues The City of Riviera Beach has approximately 186 miles of water transmission and distribution system pipelines that range in size from 1 to 30 inches and employ a variety of materials the most commonly used (60%) being asbestos cement (AC). Approximately 80% of the City's water infrastructure was installed prior to 1970 and will be approaching the end of its functional and reliable useful life over the next 20 years. Consequently, planned investments are focused primarily on the replacement of aging infrastructure, improving the reliability of critical water waterway crossings, and alleviating low pressure challenges in certain areas. The primary identified drivers for the City's pipeline replacement, repair or expansion needs are a result of:

- Enhanced Water quality
- Fire flow/protection
- Pressure adequacy
- Interconnects and looping
- Aged or deteriorated infrastructure
- Materials (AC, galvanized, cast iron)

A significant portion of projects in the City's CIP relate to the replacement of water mains as part of CDBG improvements or County right of way improvements. A major planned project is the addition of a third water main crossing of the Intracoastal Waterway to improve system resilience and service pressures in the northern reach of Singer Island.

» Sewer System Needs/Issues: As pipelines age, the probability of failure, as well as the influence of infiltration and inflow (I/I) from groundwater increases. There are a variety of ways to assess and minimize I/I through a collection system. The benefits of addressing I/I include decreased flow – avoiding the need to increase the capacity of downstream systems, reduced energy consumption at lift stations, and a reduction in sewer overflows. Furthermore, all infiltrated flow is subject to costly treatment and disposal.

The City has not conducted a sanitary sewer evaluation study (SSES) to assess the condition of its collection system and prioritize drainage basins for improvement. However, to address I/I, the sewer pipes that fall within the alignment of Public Works and other right of way improvements are routinely lined.

An outstanding major vulnerability to address is the replacement of the City's only force main crossing of the intracoastal waterway. The condition of this aging force main is unknown, and its failure could result in service interruption to the island as well as adverse environmental and economic impacts. Its replacement is a major capital project that is a high priority for expedited completion.

Approach: As your Owner's Representative, key areas of support that may be provided include:

1. Project management and technical oversight of design, construction and commissioning of the water and force main intracoastal crossings.
2. As-needed project management augmentation to alleviate peak workload demands for existing and future buried infrastructure projects.

FOCUSED on Benefits

BC ranks #10 in Trenchless Technology Top 50 Trenchless Design Firms in North America

We often utilize our trenchless technologies expertise in order to minimize disturbances to the environment, traffic, residents and congested urban areas. BC is employing trenchless methods in critical water main and force main projects for the City of West Palm Beach.

BC was able to eliminate almost 80% of identified fire flow deficiencies and associated CIP for the City of West Palm Beach by using multi-hydrant modeling analysis and engagement of the Fire Marshall.

The BC team includes an unparalleled depth and breadth of experience to serve Riviera Beach's needs.

West Region Operations Center, Palm Beach County Water Utilities Department

Complex of four buildings inclusive of maintenance facility, operations administration offices, generator building and warehouse shop area. Design for Florida Green standards (Colome & Associates)

Palm Trans South Expansion with Three-Story Building & Renovated Maintenance and Parking Facilities

(Colome & Associates)

Palm Beach Sheriff's Office Evidence Facility, zoning entitlements, landscape architecture, upland mitigation and site plan approval

(Cotleur & Hearing)

West Palm Beach Fire Station No. 8, construction staking and record drawing services for new fire station

(Brown and Phillips)

Riviera Beach Fire Station No. 2, land planning, landscape architecture and site plan approval services for proposed replacement station

(Cotleur & Hearing)

Supplemental Services and Community Development

» Potential Needs / Issues: Implementation of the City's capital program will require initiatives to secure financing (bond and/or low interest loans), pursuit of grant funding opportunities, proactive engagement of the community to build support, participation in public meetings, and supporting the City in its engagement with varied stakeholders. Your Owner's Representative should have the skill set to support the City in these areas.

» Approach: Our Project Director, Mr. Nigel Grace, with the support of our team of professionals, will lead our efforts to support the City in these supplemental areas. He is uniquely qualified to serve in this capacity due to his experience in pertinent areas that span over three decades. Specific elements of our approach include:

- **Financing & Grant Initiatives:** Collaborate with City's rate consultant on strategy, CIP validation, preparation of supporting Consulting Engineering Reports.
- **Grant Funding Initiatives:** Collaborate with City's grants consultant to refine funding strategies and support preparation of applications.
- **Community Engagement & Development:** Proactively support engagement of the public through workshops, public hearings and other meetings aimed at informing, responding to inquiries and building support.
- **Key Stakeholder Engagement:** BC will engage key stakeholders among other government agencies (e.g. regulators) and the business community to support the advancement of the City's priorities. A potential area of focus will be the engagement of the construction community to explore opportunities to leverage the City's investments to improve job skills and employment opportunities within the community.
- **Develop and Maintain Project Status Website:** The City's CIP includes diverse projects of interest to the public. We can support the development of an active website to promote transparency and accountability by keeping the public abreast of the status and major pending actions associated with each capital project.
- **Asset Management and O&M Development Systems:** With the major redevelopment of the RBUSD water treatment facility, a transformation in asset management and O&M skills will be required to effectively manage the new technology and preserve the life and function of its assets. As your Owner's Representative, we can support your needs in these areas.

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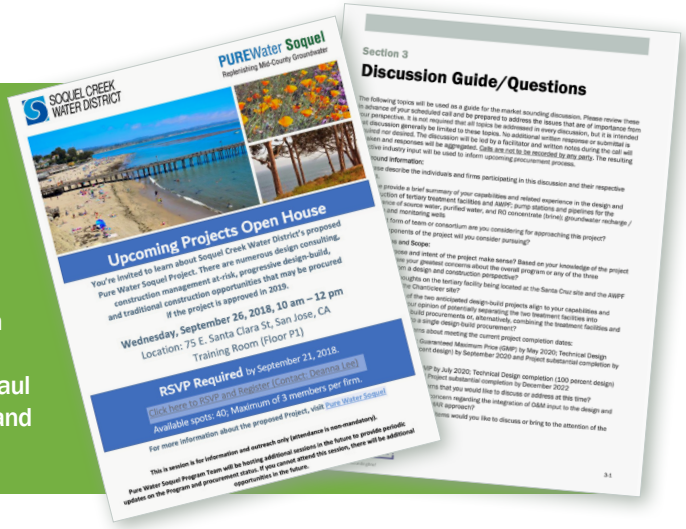
Community Partnership

Dr. Celia Earle believes in developing a strong partnership with Counties and Cities. She is servant leader and the Past Governor of the Florida District of Kiwanis International whose main mission to serve this children of the world. She performs numerous projects for the less fortunate throughout the year. She also founded and leads the annual Christmas in July program in Broward County that has provided personalized necessities to over 33,000 homeless children to date. BC is involved with Christmas in July and other projects performed by Kiwanis and have become a part of the fabric of the communities in which we work. Therefore, in addition to her technical role on this contract, Celia will work towards advancing community engagement and development initiatives with the City of Riviera Beach.

BC uses proactive outreach to get market input on specific procurement approaches prior to finalizing a Procurement Plan. For Soquel Creek Water District, BC facilitated an early open house followed by market sounding conference calls. Extensive market input influenced a shift in a major part of the program's procurement from CMAR to DB. Market outreach also provides an early warning for the industry to plan ahead and form teams. In addition to Soquel, BC has recently conducted market sounding for the City of Nampa (ID); Saint Paul (MN) Regional Water Services, Colorado Springs (CO) Utilities; and AlexRenew (Alexandria, VA).



Impactful Project Management Yields Successful Outcomes

Effective project management is a time-tested repeatable process for weaving together all the key ingredients that are essential to a successful project outcome – achieving the desired results on schedule and with optimal use of budgeted resources.

With the diverse capital improvement needs as well as development opportunities within the City, it is important that your Owner's Representative have the capability to equip and augment your resources to support effective project delivery from concept development through construction, acceptance and turnover. Examples of multiple project development and implementation phases in which we are well equipped to support the City as it advances its capital program are summarized below.

Project Development

- Planning/concept development
- Need assessment/ investigation
- Design criteria development
- Environmental assessment
- Site plan approval
- Scheduling & delivery planning
- Procurement support

Design Development

- Project management oversight
- Reviews & recommended approvals
- Budget & schedule controls
- Documents controls
- Advisory consulting
- Value analysis
- Permit coordination

Construction Phase

- Project management oversight
- Document controls
- Schedule controls & change management
- Construction observation
- Review pay applications
- Startup/commissioning observation
- Substantial completion inspections

Construction Acceptance

- Punch list & final completion
- Certifications and releases
- Testing approvals
- Record drawings approvals
- Closeout submittals approvals
- Reconciliation changes
- O&M resources
- Final acceptance

Warranty Phase

- Warranty period inspections
- Coordinate warranty repairs
- O&M training augmentation

Applications for the noted services range from the development through construction of utility infrastructure as well as other municipal (non-utility) facilities. The utility operating environment is a dynamic and complex interaction of physical assets, operating staff, performance enabling systems/protocols and changing external influencing factors. A well planned and executed project that meets or exceeds your expectations must apply consistent and proven management methods with an understanding of the dynamic environment, uncertainties that can impact project success, and the flexibility to adapt to changing conditions. Other municipal infrastructure, whether they be public safety facilities, libraries, government center or recreational facilities must similarly meet complex multi-functional demands with the added challenge of satisfying diverse expectations. In the demanding environment of public scrutiny, function and expectation must intersect to achieve satisfaction and acceptance or the project outcome.

The BC team has consistently demonstrated to clients like Riviera Beach, its ability to competently deliver effective results in wide-ranging situations. Our long-standing presence in the South Florida community delivering impactful results also gives us the credibility with key stakeholders to effectively support the advancement of the City's utility interests.

Our project management function is an essential framework that connects and coordinates the application of appropriately aligned and committed resources to clearly understood needs, to consistently deliver the quality of service and impactful results that will exceed your expectations. To work as intended, it requires a clear understanding of the City's priorities, leadership that can commit the appropriate resources of the firm, project managers who are not only skilled at their primary responsibilities, but possess a solid grasp of technical nuance, and discipline specialists who have the experience to consistently develop and deliver appropriate solutions to each challenge.

To this end, we have created a multi-disciplined team that is uniquely qualified to take on any assignment under this contract. Our team offers exceptional professional capabilities in the defined service areas as well as supplemental capabilities we believe will benefit the City. As your Owner's Representative, we will commit the resources of our Team to manage on your behalf, the successful delivery of your CIP priorities.

Approach to Serving Riviera Beach

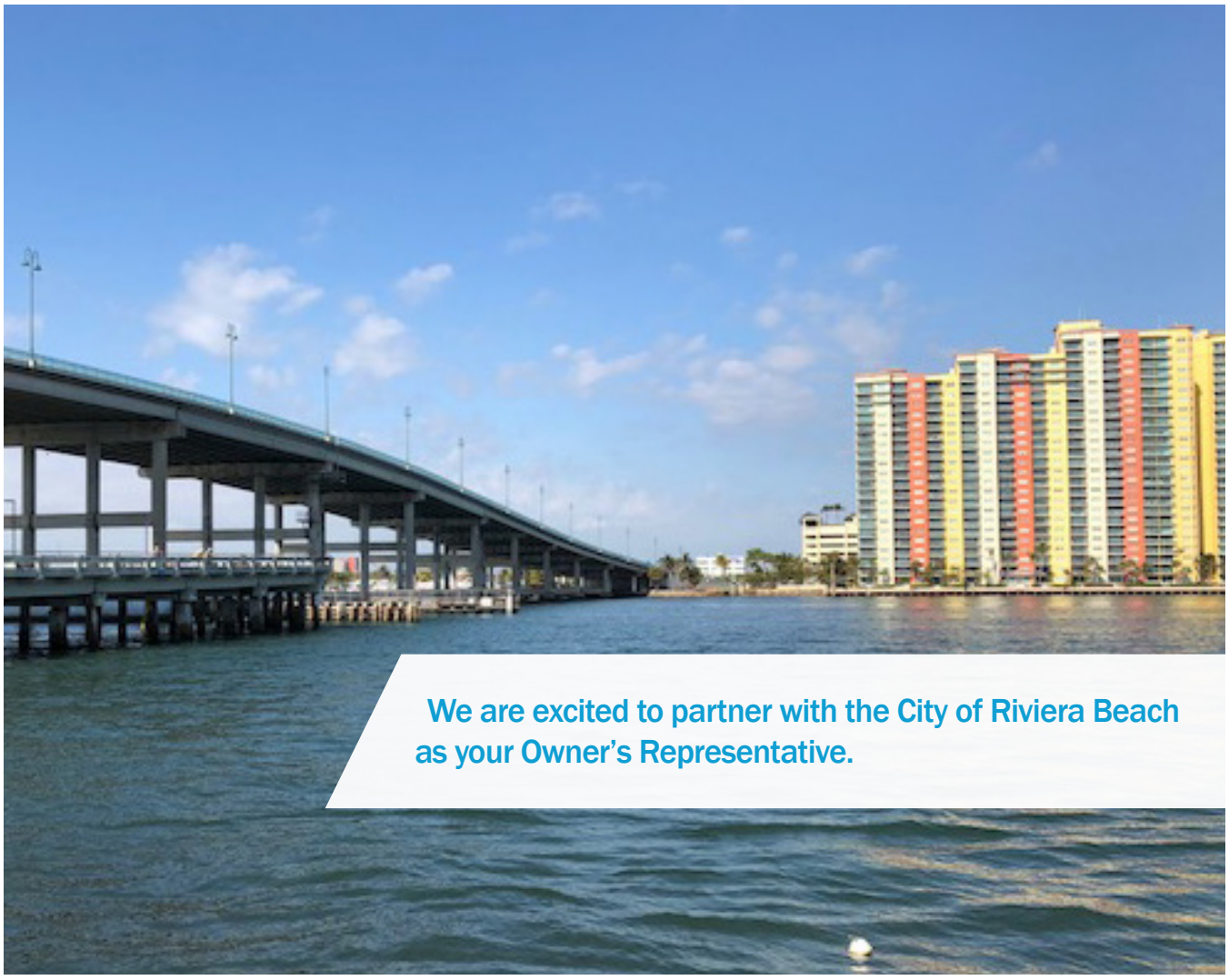
Our project approach is personalized to address the City's goal of retaining the services of an Owner's Representative to support the successful delivery of diverse projects.

We are committed to delivering outstanding results that meet or exceed your requirements on every assignment. Our team has worked diligently with the City over the past few years supporting various needs that demonstrate our commitment advancing your priorities in the most efficient, effective and responsive manner. If selected as your Owner's Representative, that demonstrated commitment will carry over to that role and be additionally enhanced by the strength and complementary expertise offered by our Team.

We offer you a team you know and trust who:

- ✓ Understands the progress to date, and will move forward without re-evaluating every key decision made
- ✓ Provides the required resources, capacity, and production processes to oversee the delivery of your capital program quickly, cost- effectively, and with high-quality results
- ✓ Offers experience working with the City in several areas to bring critical insights that add value to your program
- ✓ Brings a demonstrated ability to collaborate and successfully deliver similar projects

Our approach will fulfill these key needs and help you achieve successful results for the community.



Project Management and Team Controls

BC considers current and projected future workload when selecting the right team for each assignment. You have our commitment to diligently support your project implementation priorities with responsive and appropriately aligned capabilities.

Delivering Owner's Representative Services

BC supports the concept of extending the OA role through project delivery, engaging the same team throughout the project lifecycle. To be successful, your OA team must be present and on-the-ground, embedded with the City and design-builder during delivery. In BC's West Palm Beach, we have staff with local experience in supporting area clients with on-site construction services. BC has extensive experience with construction management (CM) in Southern Florida. Our diverse team has provided support services for numerous projects, the most notable for OCSD on projects such as P2-92 Sludge Dewatering and Odor Control, J-117 Ocean Outfall System Rehabilitation, and P2-98B Primary Clarifiers Replacement. Our services include field support for tracking and reviewing submittals and RFIs, attending construction meetings, verifying permits, providing field oversight, conducting inspections, invoicing, verifying progress reports, and providing commissioning and change order support, including engineering, CAD, and cost reviews.

Our local resources are supported by BC's broader DB capabilities, including:

- A full at-risk estimating team that can review change orders and design-builder costs when needed
- A nationwide CM practice that can provide supplemental field support as-needed such as in emergencies or overseeing tasks that require specialized expertise
- Our One Water team of treatment process specialists who can support performance-requirements validation, support process-related troubleshooting, and who have extensive relationships with equipment vendors

Jorge Jaramillo, PE
Project Manager

Nigel Grace, PE
Client Service Manager/ Project Delivery Officer/ Utility Systems & Consulting Lead

Mauricio Lara, PE, PMP
Project Manager

30 YEARS | 35 YEARS | 21 YEARS

Five-Step Work Order Management Approach

BC's work authorization management approach has been proven on hundreds of successful contracts. It is designed to ease schedule and budget management and build in consistency and accountability. BC will manage through knowledge of the City's priorities and expectations, clear reporting of budget & schedule performance, complete accountability, financial & resource balancing, and continuous reporting on project status.

1. Listen	2. Engage	3. Prepare	4. Execute	5. Closeout
BC leadership confirms understanding of project scope, goals, key stakeholders, and critical success factors with the City.	Nigel engages the appropriate Project Manager and discipline lead to commit the optimum delivery team to align with the City's project goals, objectives, and critical success factors.	Project leadership guides development of scope of services, Project Management Plan, QA/QC Plan, Health & Safety Plan, and Risk Management Plan	BC discipline lead uses WorkSmart to assist in the execution of the project, achieving stakeholder buy-in on critical design decisions and delivery.	Leadership and team measure and celebrate success. Honest feedback and performance evaluation improve future project delivery.

1. Listen

The first step in our work authorization management approach is simple: once a new work authorization is identified, BC will conduct a meeting with the City's team to review work authorization details to fully understand the assignment before taking action. For example: why was the project created, the purpose, what are the desired results, who are the stakeholders, and what are the expectations of the finished project?

Our leadership team will work with City staff to gain a clear understanding of drivers and desired outcomes, develop a collaborative mission, and reaffirm the critical success factors (CSFs) that are important to the stakeholders.

Development of the work authorization-specific CSFs at the onset of each work authorization assignment allows the BC team to work with City to identify the most pressing issues and concerns— and City's desired results beyond the scope of work. The CSFs become a part of the preliminary scope statement so that the hand-off to the appropriate project manager and team is seamless. Typically, if we focus our solutions on meeting the CSFs, the project is a success.

2. Engage

Step two involves engaging the right team—from assigning the most fitting project manager, to drawing from the best technical expertise early in the project when it can make the most impact, to collaborating with the right stakeholders throughout the course of the project. Once BC has committed a project team, the team will remain intact for the life of the project. We have found that having a committed team from beginning to end results in all team members having a clear understanding of the objectives and allows BC to deliver the work authorization assignment in the most cost-effective manner. After initial mobilization, BC will continue to engage all team stakeholders to ensure effective communication and responsiveness through the phases of the project.

3. Prepare

Creating a Rock-Solid Scope, Schedule, and Budget

Our assigned project manager will utilize our internal project management system, called WorkSmart, to access financial and schedule information each week (or daily for small, rapid burn projects) to monitor actual expenditures and progress against what was planned. WorkSmart is based on the Project Management Institute's Project Management Body of Knowledge, and is fully integrated with our company's accounting system. WorkSmart tracks a job—from before the proposal is submitted to the client—through project close-out. This multi-faceted tool integrates everything in one place, from the scope of client service, project team communications, document sharing and resource allocating, to evaluating risk, managing schedule, and monitoring budget.

After our project team has developed the work plan, BC conducts multiple reviews for consistency, accuracy, and adequacy. We first conduct discipline reviews to garner strong buy-in by key staff that will be leading or working on portions of the work authorization assignment. Principal-In-Charge, Albert Perez will then check the alignment of the budget with the scope to promote the financial success of the work authorization assignment. These reviews will happen before presenting the fee to the City, including proposals, amendments, change orders, or other changes to the contract cost.

Completing these reviews is more than just a requirement; it is the way BC proactively keeps focus on your priority, balances resources, and avoids preventable scope creep and change orders.

Implementing World-Class Controls

Once the scope, schedule, and budget are submitted to the City for baseline approval and the work authorization assignment is authorized, the assignment's selected project manager will complete the launch of internal project controls by creating a profile in our project delivery system, WorkSmart. This profile will include critical milestones, work task/staff loaded budgets, quality control accountability measures, communication plan, health and safety plan, risk management controls, and other requirements that are necessary to promote a successful delivery.

Preparing Required Plans

During the initial stage, the project manager will also collaborate with City's staff to prepare required plans for the assignment. After the plans are approved by the City, BC's project manager will upload them to the WorkSmart Profile where they will serve as guides to the team to maintain compliance with the City's project delivery requirements and keep the work authorization assignment on track.

FOCUSED on Benefits

- Well planned and organized progress meetings with timely follow-up
- Monthly reports that concisely and accurately communicate progress and status
- Accurate monitoring and forecasting of the contract scope, schedule and budget
- Excellent document management and tracking
- Timely and accurate invoices that allow prompt payment

Worksmart™ – "Best in Class Project Management"

Our WorkSmart platform is the system that ties all the elements of our Project Management program together to yield consistent results that will surpass your expectations.

The project will be managed using our internal WorkSmart program. WorkSmart simplifies, automates and coordinates project financials, schedule, the QA/QC process and invoicing. By integrating planning and tracking tools with relevant project requirements, WorkSmart helps project teams deliver projects on time, on budget and helps apply project management principles consistently across all projects.

BC's WorkSmart™ System Provides Project Controls

BC invested in and implemented a fully-integrated project delivery system called WorkSmart to simplify, automate, and coordinate project financials, schedules, QA/QC processes, and invoicing.

This system serves as a dashboard control tool, allowing our team to run queries and present data to the City on a real-time basis for any task at any time. Accessed via BC's company intranet, WorkSmart is a proprietary project management platform that integrates with our firm's accounting, staffing, and resource scheduling systems. This system is used by all BC project managers to implement the firm's best processes and practices across projects nationwide.

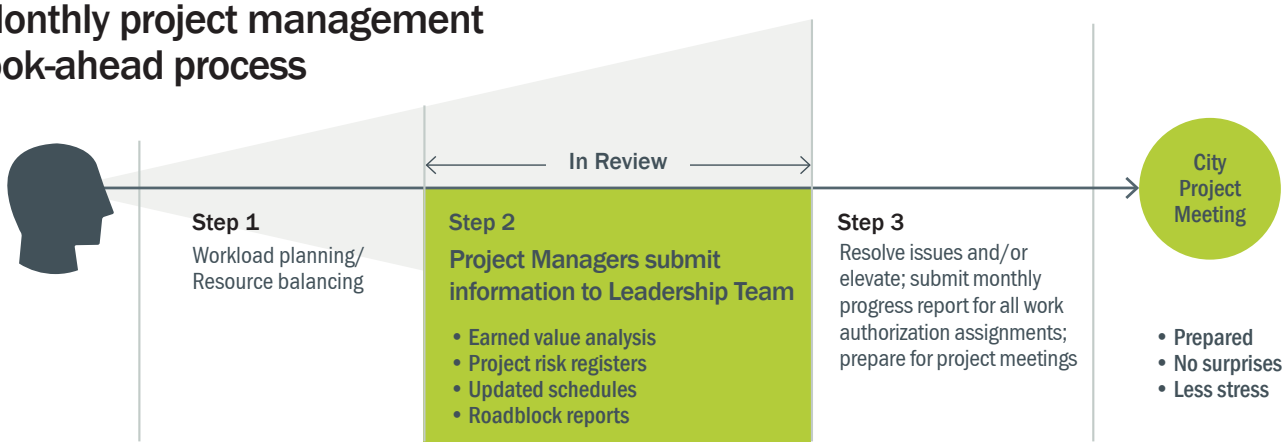
A single gateway through which all project attributes are entered and updated, WorkSmart employs an interactive web-based question and answer tool to identify requirements for independent reviews, QC checks, applicable BC standards, expert involvement, and more. Our project managers use this tool to document each project's characteristics, requirements, and critical success factors.

This system additionally provides a single location for reviewers to coordinate and collaborate with the project manager and team. Quality reviewers and other internal stakeholders have full access to create, submit, and modify new project-specific requirements throughout the life of the project. A notification system keeps the entire team up-to-date on changes and new requirements related to each project, providing an easy means to communication, which ensures a cohesive and successfully delivered project.

BC's integration of planning and tracking tools with relevant project requirements through the WorkSmart platform allows BC project managers to deliver projects on time, within budget, and at a level of quality that exceeds client and industry standards.

4. Execute

Monthly project management look-ahead process



Many collaboration tools, such as our risk register, are used to proactively anticipate and mitigate potential impacts to each project. Risk management discussions are included in meeting and workshops, especially constructability reviews and studies that incorporate significant uncertainties. This standardized approach, a key element of our ability to consistently deliver impactful results, is discussed further on the following pages.

Overall Contract Administration

Responsible for the management of the overall GEC Contract, Matthew Schultz, PE, will lead the ongoing contract administration effort, which includes reporting of budget and schedule performance up to the City and internal financial and resource balancing to confirm that every work authorization assignment is on track.

Project Management Plan (PMP), Quality Management Plan (QMP), Risk Register (RR), and Health and Safety Plan (HSP)

BC will follow standard BC procedures to develop a PMP, QMP, RR, and HSP that will facilitate development of successful, quality City projects that proactively anticipate and mitigate surprises before they impact budget and schedule.

Forecasting, Monitoring, and Reporting

Tactics to monitor all concurrent work authorization assignments and forecast scope, schedule, budget, and risk factors include holding well-run weekly and month-end close meetings with key input by the task managers. This allows our leadership team to proactively anticipate and resolve issues. BC's monthly progress reports will follow the City's outline and include all information needed for monthly reports, including scope, schedule, and budget data.

Accountability

Clear performance expectations will be set to define clear roles and responsibilities, coach task managers on City's priorities, and motivate project teams to accomplish the work. Nigel will keep his finger on the pulse of all work authorization assignments, keeping each project manager focused and supported with the appropriate resources, and each team moving forward efficiently. Weekly project delivery officer briefings, roadblock reports, and month end close meetings with monthly progress reports are all accountability touch points. He will hold project managers accountable for executing the planning, design, and/ or construction phase work, but ultimately, he will serve as the single point of accountability to the City.

Scalability

Our approach is completely scalable and flexible. For example, depending on forecasted work authorization assignments, Nigel may lead individual work orders on his own.

Weekly project delivery officer briefings, roadblock reports, and month-end close meetings with monthly progress reports are all accountability touch points.

5. Closeout

In the closeout phase, the leadership team, project team, and stakeholders will measure and share feedback to improve future project delivery as well as celebrate success. BC believes that proper project closeout will provide information and data for use in future pursuits and projects, allowing all stakeholders to further benefit from a project long after its completion.

Contract and administrative closeout

BC will complete internal closeout procedures including:

- Prepare a complete set of indexed project records for archiving by the appropriate parties
- Archive final project deliverables
- Meet with the project team to capture lessons learned
- Update project-specific or program-wide historical databases
- Notify the accounting department to close the project from all time and expense charges and submit a final invoice

Final project documentation, closeout, and follow-up is initiated 1 to 4 weeks after final project deliverables are submitted.

Feedback and knowledge transfer for continual improvement

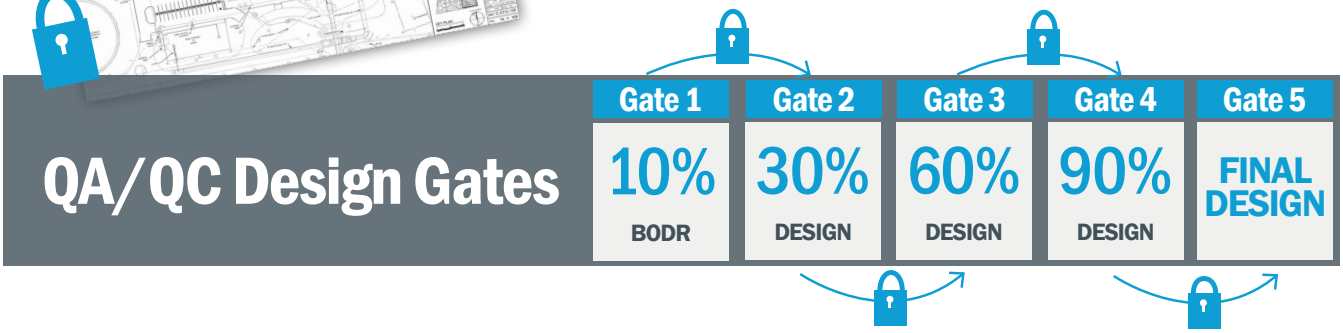
BC will maximize the value we deliver to the City by holding ourselves accountable and monitoring our own performance. We will share and document lessons learned for all stakeholders so that the close of each work authorization assignment brings knowledge gained on proven business practices, technical information, and management tools for continued use on future assignments.

Celebrating success with you

When a work authorization assignment has been successfully delivered, our leadership team will identify noteworthy accomplishments celebrate with the City to recognize key contributions and recognize the furtherance of the City's goals achieved. Pausing to celebrate success is not only an important activity to refresh and reinvigorate project teams, but it also reinforces direction and helps to build commitment to the City's long-term vision.

The BC team will establish and maintain open communication throughout each project to ensure the City and key stakeholders are well informed.

Our Project Team will coordinate detailed QA/QC reviews and a big picture overview of design documents before each gate is passed and locked.



Rigorous Quality Control to Meet your Expectations

The backbone of our firm's design approach and philosophy are "design gates." In our Design Gateway system, key decisions are mapped with project milestones in a way that obviates the ability to revisit fixed decisions.

Each design gate template document provides a checklist of those items expected and their intended level of completion for each gate milestone. Design gates and workflow diagrams are used together, with the workflow diagram providing a more detailed "roadmap" to be used in conjunction with the review and approval process and to ensure efficient project development and regular QA/QC reviews.

All tasks under the work orders managed for the City will undergo multiple tiers of quality assurance beginning with the assignment of task managers and project discipline leads. Ultimately, all tasks will undergo an independent review by the quality control team assigned to the specific work authorization. This approach will allow the City's project team to focus on key design elements and decisions. A quality management plan (QMP) is developed for each work authorization, which promotes early identification of project- specific risks. We tailor the QMP, team, processes, and tools to design out (quality assurance) and verify that risks (quality control) are mitigated throughout the project. The QMP will be part of the planning and execution of each task.

Managing risk between all elements of the project will be integral to achieving project success.

Risk Management for Project Success

Throughout project delivery, the BC team will closely collaborate with the City's project team to proactively identify and mitigate risk that might adversely impact the schedule, budget, and quality of projects or the operation of the City's facilities.

Key to this activity is the use of a risk register that was previously mentioned. A risk register is a living document that is continually reviewed and updated to reduce the risks for the City, stakeholders, community, and the environment throughout the project's life cycle.

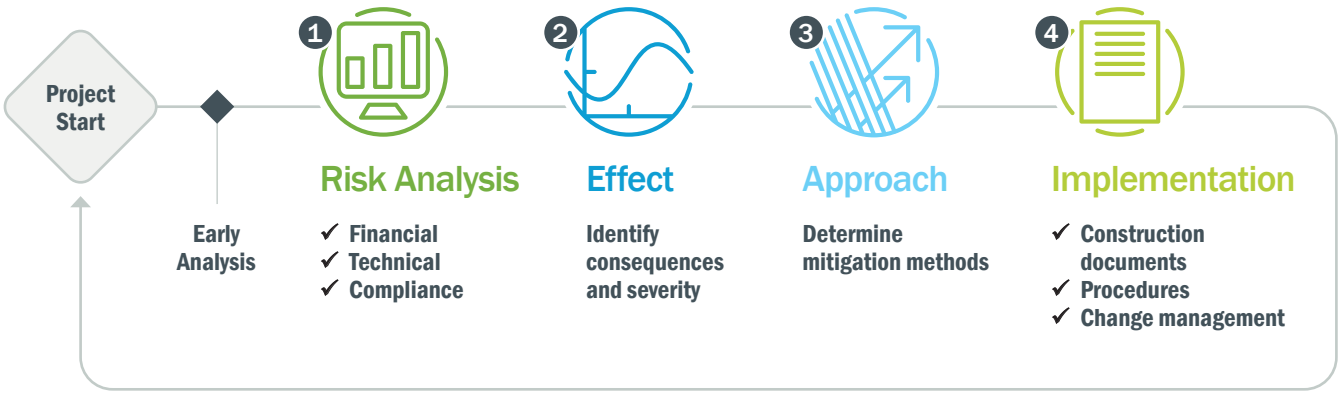
The risk register is a unique document in that it creates an opportunity to discuss potentially adverse situations from occurring and/or minimizes the impact. For example, a pipeline route could potentially impact a school zone. A mitigation strategy would include limiting construction activity to a time-period that poses little or minimal impact such as during a school holiday or during certain periods of the day. The risk registers will be updated for different phases of the project as well – the risks pertaining to the design will not be the same as the risks associated with construction. Key components of a risk register include:

- **Risk Identification.** Collaboratively identify risks and impacts throughout your project.
- **Mitigation Measures.** Define the BC team's strategy for mitigating the risks.
- **Risk Register Maintenance.** Update and maintain the risk register throughout all phases of your project, clearly identifying which BC, City and Construction team member will be accountable for each risk.
- **Integration with the Construction Team.** Establish strong lines of communication with the Contractor and construction management team, where applicable.

Risk management discussions will be included in all meetings and workshops, specifically constructability review meetings, to identify construction risks early. BC will help reduce risks during project delivery, drawing on our past work with the City, as well as our experience with similar projects.

BC has proven that the benefits of having and using a risk register throughout the project often includes: adherence to schedule and budget, improved communication amongst team members and the City, reduction in change orders, increased collaboration amongst the City, design team, and construction team. Being proactive through the development of a project-specific risk register helps avoid unwanted cost surprises and delays in project delivery.

Project success is enhanced by our proven method of defining and controlling risks.



Shared Commitment to Focus on Quality and Value

Our team is committed to supporting Riviera Beach in its efforts to transform into a sustainable utility that is efficient, effective and enjoys the confidence of its stakeholders. We offer a team with a track record of collaborating to successfully align short-term and long-term priorities to develop and deliver practical and durable solutions. We are committed to exceeding your expectations.

- ✓ Proven performance on similar projects
- ✓ Available and committed local resources
- ✓ Significant knowledge of your priorities
- ✓ A record of putting our clients' interests first
- ✓ Successful history as Owner's Representative
- ✓ Credibility with key stakeholders

We are excited at the opportunity to support the delivery of solutions to help Riviera Beach become a better place to live, work and enjoy. Our entire team is in alignment with your strategic goals and stand ready to assist you to develop and deliver impactful and sustainable solutions.

— NIGEL GRACE, PE // Project Delivery Officer

SECTION E

Required Forms and Addenda

FOCUSED
on Riviera Beach

Proven Partnership.
Trusted Solutions.

SECTION 1

SUBMIT BID TO:	CITY OF RIVIERA BEACH PALM BEACH COUNTY, FLORIDA
City of Riviera Beach Office of the City Clerk 600 W. Blue Heron Blvd., Suite 140 Riviera Beach, FL 33404 (561) 845-4180	***Request for Qualifications*** Proposer Acknowledgment

GENERAL CONDITIONS

THESE INSTRUCTIONS ARE STANDARD FOR ALL CONTRACTS FOR COMMODITIES/SERVICES ISSUED BY THE CITY OF RIVIERA BEACH. THE CITY OF RIVIERA BEACH MAY DELETE, SUPERSEDE OR MODIFY ANY OF THESE STANDARD INSTRUCTIONS FOR A PARTICULAR CONTRACT BY INDICATING SUCH CHANGE IN THE SPECIAL INSTRUCTIONS TO PROPOSERS OR IN THE BID SHEETS. BY ACCEPTANCE OF A PURCHASE ORDER ISSUED BY THE CITY, PROPOSER AGREES THAT THE PROVISIONS INCLUDED WITHIN THIS INVITATION FOR BID SHALL PREVAIL OVER ANY CONFLICTING PROVISION WITHIN ANY STANDARD FORM CONTRACT OF THE PROPOSER REGARDLESS OF ANY LANGUAGE IN PROPOSER'S CONTRACT TO THE CONTRARY.

BIDDER ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH YOUR BID

SEALED BIDS: This form must be executed and submitted with all bid sheets in a sealed envelope. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE). The face of the envelope shall contain the above address, the date and the time of bid opening, and bid number. Bids not submitted on attached bid form may be rejected. All bids are subjected to the conditions specified herein. Those which do not comply with these conditions are subject to rejection.

1. EXECUTION OF BID: Bid must contain an original signature of an individual authorized to bind the proposer. Bid must be typed or printed in ink. All corrections made by proposer to his bid must also be initialed. The proposer's name should also appear on each page of the bid sheet if required. Bids will not be accepted from firms in arrears to the City of Riviera Beach upon debt or contract nor from a defaulter upon obligations to the City of Riviera Beach. Proposer certifies by signing the bid that no principals or corporate officers of the firm were principals or corporate officers in any other firm which may have been suspended or debarred from doing business with the City within the last three years, unless so noted in the bid documents.

2. TIE BIDS: In case of tie bids, the award will be made in the following preference:

PROPOSER WITHIN CITY LIMITS OF RIVIERA BEACH.
PROPOSER WITHIN PALM BEACH COUNTY.
PROPOSER WITHIN THE STATE OF FLORIDA.

3. NO BID: If not submitting a bid, respond by returning this Proposer Acknowledgement form, marking it "NO BID", no later than the stated bid opening date and hour, and explain the reason in the space provided. Failure to respond without justification may be cause for removal of the proposer's name from the bid mailing list.

4. BID WITHDRAWAL: No proposer may withdraw their bid before the expiration of ninety (90) calendar days from the date of bid opening.

5. BID OPENING: Shall be public, on date, location and time specified on the bid form. The official time is the time clock located in the City Clerk's Office and will be accepted by all parties without reservation. It is the proposer's responsibility to assure that the bid is delivered on date, location and time specified on the bid form. Bids, which for any reason are not so delivered, will not be considered. Bid files and any bids after they are opened are exempt from public examination until an intended decision is announced or until 30 days from the opening, whichever is earlier (Florida Statutes Section 119.071) may be examined during normal working hours by appointment. Bid tabulations are available for inspection upon request.

NOTE: Except as required by Florida statues, bids are exempt from release for certain periods of time after bid opening.

BID WILL BE OPENED and may not be withdrawn within 90 calendar days after such date and time. **N/A**

RFQ TITLE: **Owner's Representative for Construction Management Services**

RFQ NO. **995-20-2**

POC: Althea Pemsel, MA, CPSM, Procurement Director

DELIVERY DATE: August 18, 2020 at 11:00AM
SEE SPECIAL INSTRUCTION:

CASH DISCOUNT TERMS:
NA

IF BID EXCEEDS $100,000,
PROPOSER MUST PROVIDE
BID BOND OR CASHIERS (BONDING IS REQUIRED FOR THIS ITB)
CHECK IN THE AMOUNT
OF 5% OF BID OR BID N/A
WILL BE REJECTED

TOTAL BID AMOUNT**:** **N/A**

FEDERAL EMPLOYER I.D. or SOCIAL SECURITY NUMBER

DUN & BRADSTREET NUMBER: 02-916-4357

PROPOSER NAME: Brown and Caldwell

PROPOSER MAILING ADDRESS/CITY/STATE/ZIP
1475 Centrepark Boulevard, Suite 210
West Palm Beach, FL 33401

AREA CODE TELEPHONE NO.	CONTACT PERSON:
(561)684 3456	Nigel Grace, PE
FAX NO.	INTERNET ADDRESS / EMAIL
NA	ALPerez@brwncald.com

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a bid for the same items/services, and is in all respects fair and without collusion or fraud, I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder. Further by signature of this form, pages 1 through 4 are acknowledged and accepted as well as any special instruction sheet(s) if applicable.

AUTHORIZED SIGNATURE (original in ink)

Albert L. Perez, PE // Vice President

TYPED NAME OF SIGNER TITLE

6. **ADDENDA TO BID:** The City reserves the right to amend this Bid prior to the Bid opening date indicated. Only written addenda will be binding. If, upon review, material errors in specifications are found, contact the Purchasing Department immediately, prior to Bid opening date, to allow for review and subsequent clarification on the part of the City. The vendor is required to submit with its Bid or Bid a signed "Acknowledgement of Addenda" form, when any addenda have been issued.

7. **ACCEPTANCE / REJECTION OF BIDS** The City of Riviera Beach reserves the right to accept or to reject any or all bids and to make the award to that proposer, who in the opinion of the City will be in the best interest of and/or the most advantageous to the City. The City of Riviera Beach also reserves the right to reject the bid of any vendor who has previously failed in the proper performance of an award to delivery on time contracts of a similar nature or who is not in the position to perform properly under this award.

   The Contract will be awarded to the lowest, responsible and responsive proposer. The Purchasing Manager reserves the right to reject any and all bids and to waive any informality in bids received whenever such rejection or waiver is in the best interest of the City.

   In determining responsibility, the following qualifications, in addition to price, will be considered in the evaluation of the bid:

   (a) The ability, capacity, and skill of the proposer to perform the service required.

   (b) Whether the proposer can perform the contract or provide the service promptly, or within the time specified, without delay or interference.

   (c) The character, integrity, reputation, judgment, experience and efficiency of the proposer.

   (d) The quality of performance of previous contracts or services.

   (e) The previous and existing compliance by the proposer with the laws and ordinances relating to the contract or service.

   (f) The sufficiency of the financial resources and ability of the proposer to perform the contract or provide the service.

   (g) The quality, availability, and adaptability of the supplies or services to the particular use required.

   (h) The ability of the proposer to provide future maintenance and service for the use of the subject of the contract.

   (i) Whether the proposer is in arrears to the City on a debt or contract or is a defaulter on surety to the City, or whether the proposer's taxes or assessments are delinquent.

   (j) Such other information as may be required or obtained.

8. **LEGAL REQUIREMENTS:** Federal, State, County and local laws, ordinances, rules and regulations that in any manner affect the items covered herein apply. Lack of knowledge by the proposer shall in no way be a cause for relief from responsibility.

   The City of Riviera Beach is committed to assuring equal opportunity in the award of contracts and, therefore, complies with all laws prohibiting discrimination on the basis of race, color, religion, national origin, age, sex, sexual orientation, disability and marital status.

   Minority Business Enterprise (MBE) indicates a business entity which is owned and operated by a minority. In this instance, minority group members are citizens of the United States or lawfully admitted permanent residents who are Blacks, Hispanics, Women, Native Americans, Asian-Pacific, Asian-Indian, and eligible others as outlined in Procurement Ordinance Sec. 10-301. Minority owned businesses wishing to participate in the City procurement process may contact the Purchasing Department for information and assistance.
   In compliance with Florida Public Entity Crime Statute (Section 287.132, 133), the attached Public Entity crime Form should be fully executed, notarized and submitted with bid response once per calendar year. No award will be executed with any person or affiliate identified on the State of Florida Department of General Services "convicted vendor" list. This list is defined as consisting of persons and affiliates who are disqualified from public contracting and purchasing process because they have been found guilty of a public entity crime. No public entity shall award any contract to, or transact any business in excess of the threshold amount provided in Section 287.017 without receipt of the statement.

   In compliance with Florida Statute (Section 287.087) attached form "Drug Free Workplace Certification" should be fully executed and submitted with bid response in order to be considered for a preference whenever two (2) or more bids/proposals which are equal with respect to price, quality and service are received by the City.

   The obligations of the City under this award are subject to the availability of funds lawfully appropriated for its purpose.

9. **PRICES, TERMS & PAYMENTS:** Firm prices shall be bid and include all handling, set up, shipping and inside delivery charges to the destination shown herein unless otherwise indicated.

   (a) **The Proposer:** in submitting this bid certifies that the prices quoted herein are not higher than the prices at which the same commodity(s) or service(s) is sold in approximately similar quantities under similar terms and conditions to any purchaser whomsoever.

   (b) **F.O.B.** - as specified in Special Instructions to proposer.

   (c) **TIE BIDS:** The award on tie bids will be in accordance with the provisions of the Procurement Code.

   (d) **TAXES:** City of Riviera Beach is exempt from Federal Excise and Florida Sales taxes on direct purchase of tangible property. Exemption numbers appear on purchase order. The Contractor shall pay all applicable sales, consumer, land use, or other similar taxed required by law. The Contractor is responsible for reviewing the pertinent State Statutes involving the sales tax and complying with all requirements.

   (e) **DISCOUNTS:** Proposers may offer a cash discount for prompt Payment. However, such discounts will not be considered in determining the lowest bid cost for bid evaluation purposes. Proposers should reflect any discounts to be considered in the bid evaluation in the unit prices bid.

   (f) **MISTAKES:** Proposers are cautioned to examine all specifications, drawings, delivery instructions, unit prices, extensions and all other

Email: purchasing@rivierabeach.com

The last day to submit questions concerning this RFQ shall be **08/10/2020** Questions received after this time will not be answered.

PROCUREMENT SCHEDULE

The CITY will use the following time line for the RFQ. Dates are subject to change if necessary.

07/14/2020	**RFQ Available to Proposers**
08/10/2020	**Final day to submit questions no later than 4:00 P.M. EST.**
08/18/2020	**RFQ due no later than 11:00 A.M.**

RFQ SUBMITTAL

This Page and all following pages comprise your original RFQ Submittal package. Please also attach any additional information or documentation requested in this Request for Qualification. There is no need to include the preceding Sections 1, 2, and 3 in your RFQ Submittal package.

INSTRUCTIONS

RFQ must be received on or before the due date and time (local time) at the office of the City Clerk, 600 West Blue Heron Blvd., Riviera Beach Gardens, Florida 33404. Normal City business hours are 8:00 a.m. to 5:00 p.m., Monday through Friday, except holidays. One (1) original and five (5) copies each of the RFQ shall be submitted to the City Clerk **shall have the following information clearly marked on the face of the envelope:** Proposer's name, return address, RFQ number, due date for RFQ's, and the title of the RFQ. Included in the envelope shall **be a signed original of the Qualification Summary and one (1) electronic version of your RFQ on CD or a thumb drive in a usable PDF format**. If the Qualification Summary is not included in the envelope as a hard copy, the City may deem your RFQ non-responsive. RFQ's must contain all information required to be included in the submittal, as described in this Qualification.

Request for Qualification No.: 995-20-2

Title: Owner's Representative Construction Management Services

Due Date and Time: 8/18/2020 11am

Brown and Caldwell

Name of Proposer

SECTION 5
ACKNOWLEDGEMENT OF ADDENDA
RFQ NO. 995-20-2

INSTRUCTIONS: COMPLETE PART I OR PART II, WHICHEVER APPLIES

PART I:
List below the dates of issue for each addendum received in connection with this Solicitation:

Addendum #1, Dated 7/30/2020

Addendum #2, Dated 8/11/2020

Addendum #3, Dated _____

Addendum #4, Dated _____

Addendum #5, Dated _____

Addendum #6, Dated _____

Addendum #7, Dated _____

Addendum #8, Dated _____

Addendum #9, Dated _____

Addendum #10, Dated _____

PART II:

☐ NO ADDENDUM WAS RECEIVED IN CONNECTION WITH THIS QUALIFICATION

Brown and Caldwell
Firm Name

Signature

Albert L. Perez, PE
Name and Title (Print or Type)

8/18/2020
Date

NOTICE

ADDENDUM NO. ONE (1) JULY 30, 2020

CITY OF RIVIERA BEACH
RFQ NO. 995-20-2
OWNERS REPRESENTATIVE – CONSTRUCTION MANAGEMENT

TO ALL PROPOSERS ON THE ABOVE PROJECT: PLEASE NOTE CONTENTS HEREIN AND AFFIX (PASTE OR STAPLE) TO PROPOSAL DOCUMENTS YOU HAVE ON HAND.

The following statements supersede and supplant corresponding items in the above subject proposal as follows:

GENERAL INFORMATION:

SPECIFICATION:

PLANSHEETS:

I. **NOTICE: PLEASE SEE ATTACHED REQUEST FOR INFORMATION (RFI) RESPONSES AND REVISED EVALUATION CRITERIA, UNDER SECTION 4.**

It will be required that Addendum No. 1 be signed in acknowledgment of receipt and that it be attached to the proposal when same is submitted at **11:00 a.m., Tuesday, August 18, 2020** at the office of the City Clerk, 600 W. Blue Heron Boulevard, Suite 140, Riviera Beach, Florida. For information on this BID, please contact:

Althea Pemsel, Director of Procurement
2051 MLK Blvd., Suite #310
Riviera Beach, FL 33404
purchasing@rivierabeach.org

Brown and Caldwell
NAME OF COMPANY

PROPOSER'S SIGNATURE

DATE: 8/18/2020

NOTICE

ADDENDUM NO. TWO (2) August 11, 2020

CITY OF RIVIERA BEACH
RFQ NO. 995-20-2
OWNERS REPRESENTATIVE – CONSTRUCTION MANAGEMENT

TO ALL PROPOSERS ON THE ABOVE PROJECT: PLEASE NOTE CONTENTS HEREIN AND AFFIX (PASTE OR STAPLE) TO PROPOSAL DOCUMENTS YOU HAVE ON HAND.

The following statements supersede and supplant corresponding items in the above subject proposal as follows:

GENERAL INFORMATION:

SPECIFICATION:

PLANSHEETS:

I. NOTICE: PLEASE SEE ATTACHED REQUEST FOR INFORMATION (RFI) RESPONSES.

It will be required that Addendum No. 1 be signed in acknowledgment of receipt and that it be attached to the proposal when same is submitted at **11:00 a.m., Tuesday, August 18, 2020** at the office of the City Clerk, 600 W. Blue Heron Boulevard, Suite 140, Riviera Beach, Florida. For information on this BID, please contact:

Althea Pemsel, Director of Procurement
2051 MLK Blvd., Suite #310
Riviera Beach, FL 33404
purchasing@rivierabeach.org

Brown and Caldwell
NAME OF COMPANY

PROPOSER'S SIGNATURE

DATE: 8/18/2020

SECTION 6
QUALIFICATION SUBMITTAL SIGNATURE PAGE
RFQ NO. 995-20-2

By signing this qualification the Proposer certifies that it satisfies all legal requirements as an entity to do business with the City, including all Conflict of Interest and Code of Ethics provisions.

Firm Name:

Brown and Caldwell

Street Address:

1475 Centrepark Boulevard | Suite 210 | West Palm Beach, FL 33401

Mailing Address (if different than Street Address):

Telephone Number(s): 561.684.3456

Fax Number(s): _____

Email Address: ALPerez@brwncald.com

Federal Employer Identification Number: 94-1446346

Prompt Payment Terms: TBD % _____ days' net _____days

Signature: _____
(Signature of authorized agent)

Print Name: Albert L. Perez, PE

Title: Vice President

By signing this document, the Proposer agrees to all Terms and Conditions of this Solicitation and the resulting Contract/Agreement.

THE EXECUTION OF THIS FORM CONSTITUTES THE UNEQUIVOCAL OFFER OF PROPOSER TO BE BOUND BY THE TERMS OF ITS OFFER, FOR NOT LESS THAN 90 DAYS, AND THE PROPOSER'S UNEQUIVOCAL OFFER TO BE BOUND BY THE TERMS AND CONDITIONS SET FORTH IN THIS REQUEST FOR QUALIFICATION. FAILURE TO SIGN THIS SOLICITATION WHERE INDICATED ABOVE, BY AN AUTHORIZED REPRESENTATIVE, SHALL RENDER THE BID NON-RESPONSIVE. THE CITY MAY, HOWEVER, IN ITS SOLE DISCRETION, ACCEPT ANY RFQ's THAT INCLUDES AN EXECUTED DOCUMENT WHICH UNEQUIVOCALLY BINDS THE PROPOSER TO THE TERMS OF ITS OFFER.

CONFLICT OF INTEREST DISCLOSURE FORM

The award of this contract is subject to the provisions of Chapter 112, *Florida Statutes*. All Proposer's must disclose within their Bids: the name of any officer, director, or agent who is also an employee of the City of Riviera Beach.

Furthermore, all Proposer's must disclose the name of any City employee who owns, directly, or indirectly, an interest of more than five percent (5%) in the Proposer's firm or any of its branches.

The purpose of this disclosure form is to give the City the information needed to identify potential conflicts of interest for evaluation team members and other key personnel involved in the award of this contract.

The term "conflict of interest" refers to situations in which financial or other personal considerations may adversely affect, or have the appearance of adversely affecting, an employee's professional judgment in exercising any City duty or responsibility in administration, management, instruction, research, or other professional activities.

Please check one of the following statements and attach additional documentation if necessary:

__x__ To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other Cities, Counties, contracts, or property interest for this Qualification.

__x__ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest due to other Cities, Counties, contracts, or property interest for this Qualification.

Acknowledged by:

Brown and Caldwell
Firm Name

Signature

Albert I. Perez, PE
Name and Title (Print or Type)

8/18/2020
Date

NOTIFICATION OF PUBLIC ENTITY CRIMES LAW

Pursuant to Section 287.133, *Florida Statutes*, you are hereby notified that a person or affiliate who has been placed on the convicted contractors list following a conviction for a public entity crime may not submit a Bid on a contract to provide any goods or services to a public entity, may not submit a Bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit Bids on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, sub-vendor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 [F.S.] for Category Two [$35,000.00] for a period of thirty-six (36) months from the date of being placed on the convicted contractors list.

Acknowledged by:

Brown and Caldwell

Firm Name

Signature

Albert L. Perez, PE

Name and Title (Print or Type)

8/18/2020

Date

Notification of Public Records Law Pertaining to Public Contracts and Requests for Contractor Records Pursuant to Chapter 119, *Florida Statutes*

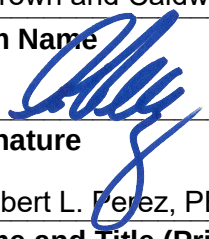
Pursuant to Chapter 119, *Florida Statutes*, Contractor shall comply with the public records law by keeping and maintaining public records required by the City of Riviera Beach in order to perform the service. Upon request from the City of Riviera Beach' custodian of public records, contract shall provide the City of Riviera Beach with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, *Florida Statutes* or as otherwise provided by law. Contractor shall ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract. If the Contractor does not transfer the records to the City of Riviera Beach. Contractor upon completion of the contract, shall transfer, at no cost, to the City of Riviera Beach all public records in possession of the Contractor or keep and maintain public records required by the City of Riviera Beach in order to perform the service. If the Contractor transfers all public records to the City of Riviera Beach upon completion of the contract, the Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Contractor keeps and maintains public records upon completion of the contract, the Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to the City of Riviera Beach, upon request from the City of Riviera Beach' custodian of public records, in a format that is compatible with the information technology systems of the City of Riviera Beach.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, *FLORIDA STATUTES*, TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT MR. RICKEY LITTLE, THE CUSTODIAN OF PUBLIC RECORDS AT OFFICE OF CITY CLERK LOCATED AT 600 WEST HERON BLVD, 310 RIVIERA BEACH, FL 33404 PHONE NUMBER (561) 845-4180, EMAIL ADDRESS: RLITTLE@RIVIERABCH.COM **.**

Acknowledged:

Brown and Caldwell

Firm Name



Signature

Albert L. Perez, PE

Name and Title (Print or Type)

8/18/2020

Date

DRUG FREE WORKPLACE

Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied Proposers have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).

4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contender to, any violation of chapter 893 or of any controlled substance law of the United States or any state for a violation occurring in the workplace no later than five (5) days after such conviction.

5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.

6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

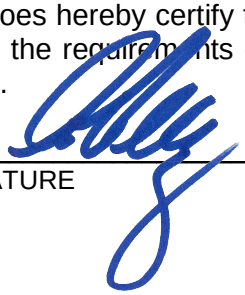
As the person authorized to sign the statement, I certify that this form complies fully with the above requirements.

THIS CERTIFICATION is submitted by Albert L. Perez, PE the
(INDIVIDUAL'S NAME)

---

of Vice President Brown and Caldwell
(TITLE/POSITION WITH COMPANY/PROPOSER) (NAME OF COMPANY/PROPOSER)

who does hereby certify that said Company/Proposer has implemented a drug free workplace program which meets the requirements of Section 287.087, Florida Statutes, which are identified in numbers (1) through (6) above.



SIGNATURE DATE 8/18/2020

NON-COLLUSION AFFIDAVIT

STATE OF Florida
COUNTY OF Palm Beach

Before me, the undersigned authority, personally appeared Albert L. Perez, PE, who, after being by me first duly sworn, deposes and says of his/her personal knowledge that:

a. He/She is Vice President of Brown and Caldwell, the Proposer that has submitted a Bid to perform work for the following:

ITB No.: _____ Title: _____

b. He/She is fully informed respecting the preparation and contents of the attached Request for Bids, and of all pertinent circumstances respecting such Solicitation.

Such Bid is genuine and is not a collusive or sham Bid.

c. Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived, or agreed, directly or indirectly, with any other Proposer, firm, or person to submit a collusive or sham Bid in connection with the Solicitation and contract for which the attached Bid has been submitted or to refrain from proposing in connection with such Solicitation and contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Proposer, firm, or person to fix the price or prices in the attached Bid or any other Proposer, or to fix any overhead, profit, or cost element of the Bid price or the Bid price of any other Proposer, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against the City or any person interested in the proposed contract.

d. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Proposer or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

_____
Signature

Subscribed and sworn to (or affirmed) before me this 18th day of August 2020, by Albert L. Perez, PE, who is personally known to me or who has produced _____ as identification.

SEAL

BRANDI LEE MURRAY
MY COMMISSION # GG041265
EXPIRES January 29, 2021

Notary Signature _____
Notary Name: Brandi Murray
Notary Public (State): Florida
My Commission No: GG041265
Expires on: 1/29/2021

SCHEDULE 1

PARTICIPATION FOR SBE CONTRACTORS/PROPOSERS

BID/RFP TITLE: Owner's Representative Construction Management Services **BID NUMBER:** 995-20-2

NAME OF PRIME PROPOSER: Brown and Caldwell **BID OPENING DATE:** 8/18/2020

CONTACT PERSON: Albert L. Perez **TELEPHONE NO.** (305) 704-4444 **DEPARTMENT:** _____

CONTRACT AMOUNT – SBE

	NAME, ADDRESS & TELEPHONE NUMBER OF SBE CONTRACTOR	TYPE & DESCRIPTION OF WORK TO BE PERFORMED	CERTIFICATION
1.	**Brown & Phillips** 1860 Old Okeechobee Road, West Palm Beach, FL, Florida 33409 (561) 615-3988	Surveying	**PALM BEACH COUNTY** x **STATE** x **OTHER**
2.	**Engenuity Group** 1280 North Congress Avenue, Suite 101, West Palm Beach, FL 33409 (561) 655-1151	Civil/Stormwater/ Surveying/Easements	**PALM BEACH COUNTY** x **STATE** x **OTHER**
3.	**C Solutions** 4152 W. Blue Heron Blvd. # 225 Riviera Beach, FL 33404 C: 954 599 6331	Civil/Mechanical	**PALM BEACH COUNTY** **STATE** x **OTHER**
4.	**Colome & Associates** 530 24th Street West Palm Beach, Florida 33407 (561) 833-9147	Architecture	**PALM BEACH COUNTY** x **STATE** x **OTHER**
5.	**Radise International** 4152 West Blue Heron Blvd, Suite 1114 Riviera Beach, FL 33404 (561) 841-0103	Geotechnical	**PALM BEACH COUNTY** x **STATE** x **OTHER**
6.	**Scalar Consulting Group Inc.** 4152 W. Blue Heron Boulevard, Suite 119 Riviera Beach, FL 33404 (561) 429-5065	Roadway Design	**PALM BEACH COUNTY** **STATE** x **OTHER**

TO BE COMPLETED BY PRIME PROPOSER:

BID/RFP PRICE: $ TBD **TOTAL % PARTICIPATION:** 26%

SCHEDULE 2

BID NUMBER: RFQ 995-20-2 **LIAISON:** _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS ENTERPRISE

TO: Brown and Caldwell
(NAME OF PRIME PROPOSER)

The undersigned intends to perform work in connection with the above BID as (Check one):

_____**a individual** __X__**a corporation** _____**a partnership** _____**a joint venture**

__X__ The undersigned is certified as a SBE.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed):
Land Surveying

as the following price: $ TBD 2%.
(Amount must match subcontractor's quote)

You have projected the following commencement date of such work, and the undersigned is projecting completion of such work as follows:

Items	**Projected Commencement Date**	**Projected Completion Date**

_____% of the dollar value of the subcontract will be sublet and/or awarded to non-minority contractors and/or non-minority suppliers. The undersigned will enter into a formal agreement for the work with you, conditioned upon your execution of a contract with the City of Riviera Beach.

Brown & Phillips, Inc.
(NAME OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

DATE: 8/10/2020

BY: _____
(SIGNATURE OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

SCHEDULE 2

BID NUMBER: 995-20-2 **LIAISON:** _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS ENTERPRISE

TO: Brown and Caldwell
(NAME OF PRIME PROPOSER)

The undersigned intends to perform work in connection with the above BID as (Check one):

_____**a individual** X **a corporation** _____**a partnership** _____**a joint venture**

X The undersigned is certified as a SBE.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed):
Civil/Mechanical

as the following price: $ 8%.
(Amount must match subcontractor's quote)

You have projected the following commencement date of such work, and the undersigned is projecting completion of such work as follows:

Items	**Projected Commencement Date**	**Projected Completion Date**

_____% of the dollar value of the subcontract will be sublet and/or awarded to non-minority contractors and/or non-minority suppliers. The undersigned will enter into a formal agreement for the work with you, conditioned upon your execution of a contract with the City of Riviera Beach.

C Solutions, Inc.
(NAME OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

DATE: 08/10/2020

BY: _____
(SIGNATURE OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

SCHEDULE 2

BID NUMBER: 995-20-2 **LIAISON:** _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS ENTERPRISE

TO: Brown and Caldwell
(NAME OF PRIME PROPOSER)

The undersigned intends to perform work in connection with the above BID as (Check one):

_____**a individual** __x__**a corporation** _____**a partnership** _____**a joint venture**

_____The undersigned is certified as a SBE.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed):
Architectural Services

as the following price: $ 5% .
(Amount must match subcontractor's quote)

You have projected the following commencement date of such work, and the undersigned is projecting completion of such work as follows:

Items	**Projected Commencement Date**	**Projected Completion Date**

_____% of the dollar value of the subcontract will be sublet and/or awarded to non-minority contractors and/or non-minority suppliers. The undersigned will enter into a formal agreement for the work with you, conditioned upon your execution of a contract with the City of Riviera Beach.

Colomé & Associates, Inc.
(NAME OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

DATE: 8/11/2020

BY: _____
(SIGNATURE OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

SCHEDULE 2

BID NUMBER: 995-20-2 **LIAISON:** _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS ENTERPRISE

TO: Brown and Caldwell
(NAME OF PRIME PROPOSER)

The undersigned intends to perform work in connection with the above BID as (Check one):

_____**a individual** X **a corporation** _____**a partnership** _____**a joint venture**

X The undersigned is certified as a SBE.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed):
Civil Engineering & Land Surveying Services as needed

as the following price: $ 5%.
(Amount must match subcontractor's quote)

You have projected the following commencement date of such work, and the undersigned is projecting completion of such work as follows:

Items	**Projected Commencement Date**	**Projected Completion Date**
	TBD	

0 % of the dollar value of the subcontract will be sublet and/or awarded to non-minority contractors and/or non-minority suppliers. The undersigned will enter into a formal agreement for the work with you, conditioned upon your execution of a contract with the City of Riviera Beach.

Engenuity Group, Inc.
(NAME OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

DATE: 8/12/2020

BY: _____
(SIGNATURE OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

SCHEDULE 2

BID NUMBER: 995-20-2 **LIAISON:** _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS ENTERPRISE

TO: Brown and Caldwell
(NAME OF PRIME PROPOSER)

The undersigned intends to perform work in connection with the above BID as (Check one):

_____**a individual** ___x___**a corporation** _____**a partnership** _____**a joint venture**

_____The undersigned is certified as a SBE.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed):
Geotechnical

as the following price: $_____3%_____.
(Amount must match subcontractor's quote)

You have projected the following commencement date of such work, and the undersigned is projecting completion of such work as follows:

Items	**Projected Commencement Date**	**Projected Completion Date**

_____% of the dollar value of the subcontract will be sublet and/or awarded to non-minority contractors and/or non-minority suppliers. The undersigned will enter into a formal agreement for the work with you, conditioned upon your execution of a contract with the City of Riviera Beach.

RADISE International, LC
(NAME OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

DATE: 8/13/2020

BY: _____
(SIGNATURE OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

SCHEDULE 2

BID NUMBER: 995-20-2 **LIAISON:** _____

LETTER OF INTENT TO PERFORM AS A SMALL BUSINESS ENTERPRISE

TO: Brown and Caldwell
(NAME OF PRIME PROPOSER)

The undersigned intends to perform work in connection with the above BID as (Check one):

_____**a individual** __X__**a corporation** _____**a partnership** _____**a joint venture**

_____The undersigned is certified as a SBE.

The undersigned is prepared to perform the following described work in connection with the above project (specify in detail particular work items or parts thereof to be performed):
Engineering Services

as the following price: $ 3% .
(Amount must match subcontractor's quote)

You have projected the following commencement date of such work, and the undersigned is projecting completion of such work as follows:

Items	**Projected Commencement Date**	**Projected Completion Date**

_____% of the dollar value of the subcontract will be sublet and/or awarded to non-minority contractors and/or non-minority suppliers. The undersigned will enter into a formal agreement for the work with you, conditioned upon your execution of a contract with the City of Riviera Beach.

Scalar Consulting Group Inc.
(NAME OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

DATE: 08/11/2019

BY: _____
(SIGNATURE OF SMALL BUSINESS ENTERPRISE CONTRACTOR)

SCHEDULE 3

PARTICIPATION FOR LOCAL BUSINESSES AS SUB-CONTRACTOR AT LEAST 25%

BID/RFP TITLE: Owner's Representative Construction Management Services **BID NUMBER:** 995-20-2

NAME OF PRIME PROPOSER: Brown and Caldwell **BID OPENING DATE:** 8/18/2020

CONTACT PERSON: Albert L. Perez **TELEPHONE NO.** (305) 704-4444 **DEPARTMENT:** _____

CONTRACT AMOUNT – LOCAL BUSINESSES

	NAME, ADDRESS & TELEPHONE NUMBER OF LOCAL CONTRACTOR	TYPE & DESCRIPTION OF WORK TO BE PERFORMED	% TO BE PERFORMED BY LOCAL BUSINESS	ESTIMATED DOLLAR VALUE
1.	**Brown & Phillips** 1860 Old Okeechobee Road, West Palm Beach, FL, Florida 33409 (561) 615-3988	Surveying	% 2%	$
2.	**Engenuity Group** 1280 North Congress Avenue, Suite 101, West Palm Beach, FL 33409 (561) 655-1151	Civil/Stormwater/ Surveying/Easements	% 5%	$
3.	**C Solutions** 4152 W. Blue Heron Blvd. # 225 Riviera Beach, FL 33404 C: 954 599 6331	Civil/Mechanical	% 8%	$
4.	**Colome & Associates** 530 24th Street West Palm Beach, Florida 33407 (561) 833-9147	Architecture	% 5%	$
5.	**Radise International** 4152 West Blue Heron Blvd, Suite 1114 Riviera Beach, FL 33404 (561) 841-0103	Geotechnical	% 3%	$
6.	**Scalar Consulting Group Inc.** 4152 W. Blue Heron Boulevard, Suite 119 Riviera Beach, FL 33404 (561) 429-5065	Roadway Design	% 3%	$
		TOTAL:	% 26%	$

TO BE COMPLETED BY PRIME PROPOSER:

BID PRICE: $ TBD **TOTAL % PARTICIPATION:** 26%

LOCKTON

UNCOMMONLY INDEPENDENT

August 7, 2020

Re: Brown and Caldwell and its affiliate Brown and Caldwell Constructors

To Whom It May Concern:

It is our pleasure to provide you with this reference letter on behalf of our client Brown and Caldwell and its affiliate Brown and Caldwell Constructors. Please accept this letter as confirmation that their bonding capacity is sufficient to undertake this work.

The surety for Brown and Caldwell and its affiliate Brown and Caldwell Constructors is Western Surety Company (CNA) a treasury listed company with an A.M. Best Rating of "A". Brown and Caldwell and its affiliate Brown and Caldwell Constructors has been supported for single projects in excess of $60,000,000 with an aggregate work program in excess of $100,000,000. Consideration for bonding support is conditioned upon completion of the underwriting process, including satisfactory review of contract documents and our ongoing review of the operational and financial capacity of Brown and Caldwell and its affiliate Brown and Caldwell Constructors.

We are pleased to share with you our favorable experience and high regard for Brown and Caldwell and its affiliate Brown and Caldwell Constructors. This letter is not an assumption of liability and is issued only as a prequalification reference request from our client. It should be understood that any arrangement for bonds is strictly a matter between Brown and Caldwell and its affiliate Brown and Caldwell Constructors and Western Surety Company.

If you wish to discuss the surety relationship of Brown and Caldwell and its affiliate Brown and Caldwell Constructors further please do not hesitate to contact me.

Sincerely,

KANSAS CITY SERIES OF
LOCKTON COMPANIES, LLC

C. Stephens Griggs

C. Stephens Griggs
Surety Specialist
Surety Operations

Brown AND Caldwell

West Palm Beach

1475 Centrepark Boulevard | Suite 210
West Palm Beach, FL 33401
T 561.684.3456